Environmental Advantage

Environmental Advantage, Inc. 3636 N. Buffalo Road Orchard Park, New York 14127
Industrial Compliance, Hazardous Materials Management, Site Assessment/Remediation

February 28, 2023

Daniel Keane, President
1803-1807 Elmwood Avenue, LLC
c/o MOD-PAC CORP.
1801 Elmwood Avenue
Buffalo, New York 14207

Via Email: dkeane@modpac.com;

Regarding: **Focused Phase II Environmental Site Assessment Report;**
Historical Industrial Property, 1803 Elmwood Avenue, Buffalo, NY
EA Project No: 01306

Dear Mr. Keane:

Please find attached one electronic copy of the final report for a Phase II Environmental Site Assessment (ESA) completed at the above-referenced site. The attached report, as noted therein, has been prepared in general accordance with the ASTM Standard E1903-19.

Information accumulated for this assessment will be retained with your project file. The report and information in your file is considered confidential and will not be released without your written authorization.

If you have any questions concerning the information present in the report, please contact me directly. Thank you for the opportunity to provide these site assessment services.

Very truly yours,
ENVIRONMENTAL ADVANTAGE, INC.

C. Mark Hanna, CHMM
President

Attachment

FOCUSED PHASE II ENVIRONMENTAL SITE ASSESSMENT



Historical Industrial Property
1803 Elmwood Avenue
Buffalo, New York

Prepared For:
1803-1807 Elmwood Avenue, LLC
1801 Elmwood Avenue
Buffalo, New York 14207
EA Project No: 01306

Prepared By:
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February 28, 2023

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FOCUSED PHASE II ENVIRONMENTAL SITE ASSESSMENT

Historical Industrial Property
1803 Elmwood Avenue
Buffalo, New York

1.0 INTRODUCTION

1.1 Background

Environmental Advantage (EA) completed a Focused Phase II Environmental Site Assessment (ESA) of the above-referenced property (hereinafter "subject site") for 1803-1807 Elmwood Avenue, LLC (hereinafter "Client"). The Phase II ESA includes historical groundwater documents in Attachment A, Figures in Attachment B, air/vapor sampling field data sheets in Attachment C, soil boring logs in Attachment D, analytical summary tables in Attachment E, laboratory analytical reports in Attachment F, and objectives & limitations in Attachment G.

This report is an instrument of service of EA and reflects the purpose of this investigation to acquire and evaluate information sufficient to achieve the objectives set forth in this document. The identified statement of objectives and developed scope of work for this study, investigative activities and interpretation of results were completed in general conformance with the American Society for Testing and Materials (ASTM) Standard E 1903-19. This practice is intended for use in any situation in which a user desires to obtain sound, scientifically valid data concerning actual property conditions, whether or not such data relate to property conditions previously identified as "Recognized Environmental Conditions" (RECs) or data gaps presented in other site-related documents. Recognized Environmental Conditions are defined under the ASTM Standard E1527-13 as " the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (*1*) due to release to the environment; (*2*) under conditions indicative of a *release* to the *environment*; or (*3*) under conditions that pose a *material threat* of a future *release* to the *environment* ". "Data Gaps" are defined in ASTM Standard E 1903-19 as "a lack of or inability to obtain information pertinent to the identification of release or likely releases at a property as required by the USEPA 'All Appropriate Inquiries' (AAI) rule despite good faith efforts to gather such information". This ESA was completed by EA in accordance with generally accepted practices of the profession undertaken in similar studies within the same time frame and geographic area, and EA observed that degree of care and skill generally exercised by the profession under similar circumstances and conditions.

This ESA and report have been prepared on behalf of, and for the exclusive use of, EA's Client solely for its reliance in the environmental assessment of this site. The Client is the only party to which EA has explained the risks involved and which has been involved in shaping of the scope of services needed to satisfactorily manage those risks, if any, from EA's Client's point of view. Accordingly, reliance on this report by any other party may involve assumptions whose extent and nature lead

to a distorted meaning and impact of the findings and opinions related herein. EA's findings and opinions related in this report may not be relied upon by any party except EA's Client. Use of this ESA report by any other party is strictly prohibited, except by authorization in writing from EA's Client.

1.2 Limitations and Exceptions

This Focused Phase II ESA was conducted using methods and practices developed in general accordance with the American Society for Testing and Materials (ASTM) Standard E 1903-19, which are therefore subject to all of the limitations inherent to that Standard. EA's investigative activities were not intended to provide either a complete characterization of the subject site or a determination regarding the extent of any contaminant migration, but rather, to provide basic information concerning on-site conditions within the specific areas of concern.

EA has endeavored to meet what it believes is the applicable standard of care for the services completed and, in doing so, is obliged to advise its Client of the Focused Phase II ESA limitations. EA believes that providing information about limitations is essential to help its Clients identify and thereby manage risks. These risks may be able to be mitigated, and possibly eliminated, through additional research or investigation. EA will, upon request, advise its Client of the additional research opportunities available and the associated costs.

The findings and opinions conveyed via this ESA report are based upon information obtained during the performance of the investigation, and which EA believes is reliable. EA cannot, and does not, warrant the authenticity or reliability of the information sources it has relied upon in the development of the scope of work for this ESA. In those instances where additional services or service enhancements are included in the report as requested or authorized by the Client, specific limitations attendant to those services are presented in the text of the report.

1.3 Purpose of the Investigation

The purpose of this Focused Phase II ESA was to assess potential Brownfield Cleanup Program (BCP) applicability, based in part upon knowledge obtained from investigative and remedial activities completed at the adjacent BCP Site (1801 Elmwood Avenue; BCP Site # C915314), as well as on data obtained from groundwater sampling/analysis completed on the subject site as "off-site" sampling/analysis during remedial actions at the adjacent BCP site[1]. As reported in the Final Remedial Investigation – Alternatives Analysis Report; Brownfield Cleanup Program, For MOD-PAC CORP., 1801 Elmwood, Buffalo, 14207, BCP# C915314:

- "Four off-Site groundwater samples were selected for laboratory analysis. ... Several [volatile organic compounds] VOCs were detected above method detection limits. Acetone was detected at locations SB201 and SB203 at

[1] Off-site sampling completed on the current subject Site as reported in the "Final Remedial Investigation – Alternatives Analysis Report; Brownfield Cleanup Program, For MOD-PAC CORP., 1801 Elmwood, Buffalo, 14207, BCP# C915314" prepared by Wittman GeoSciences, PLLC and Hazard Evaluations, Inc., dated May 2, 2019.

concentrations of 53 [parts per billion] ppb and 51 ppb, respectively. [Trichloroethane] TCE was detected in only one location, SB201, at a concentration of 8.4 ppb."

The proposed Focused Phase II ESA investigative tasks included soil boring installations to assess soil conditions and a Soil Vapor Intrusion (SVI) assessment to address the potential for vapor intrusion into the interior atmosphere of the on-site building from suspect chlorinated volatile organic compounds (CVOCs) associated with historical industrial use. Relevant groundwater sampling documents for the subject site extracted from the Final Remedial Investigation – Alternatives Analysis Report are included as Attachment A.

1.4 Statement of Objectives

In accordance with ASTM Standard E 1903-19, this Focused Phase II ESA was designed to meet the following objectives:

- Objective 1 – Assess if there has been a release of hazardous substances and/or petroleum products to environmental media within the meaning of CERCLA;

- Objective 2 – Providing information relevant to identifying, defining and evaluating property conditions associated with target analytes that may pose a risk to human health or the environment; and

- Objective 3 – Providing information relevant to evaluating and allocating business environmental risk in transactional and contractual contexts, including transferring, financing and insuring properties and due diligence related thereto.

2.0 SITE CONDITIONS

2.1 Site Description

The subject site consists of a small western portion of a larger parcel which totals approximately 11.55 acres of land addressed as 1803 Elmwood Avenue, City of Buffalo, Erie County, New York (Refer to Figures 1 and 2, Attachment B). The larger parcel, known as SBL #78.70-3-20.11, is bound to the west by an industrial parcel occupied by MOD-PAC CORP. (MPC) and the Nardin Academy outside sports complex, to the south by Brinks Security Company and the CSX railroad tracks, to the east with commercial buildings occupied by various private tenants, and to the north by commercial buildings occupied by various private tenants and a small community of residential structures. The Site is located within an urban area, utilized for industrial, commercial, and residential purposes.

2.2 Site Features

The larger parcel includes an approximate +/-14,400 square-foot warehouse structure (on the subject site) currently utilized for storage by MPC since late-2021, a

second large warehouse structure developed with both commercial and industrial sections occupied by MPC and various other tenants, and an indoor athletic facility operated by Nardin Academy. Exterior Site features consist of asphalt, concrete paved areas, and railroad spurs.

Based on a review of the site topographic conditions as depicted on the USGS 7.5 minute Topographic Quadrangle Map of Buffalo NE & NW, NY, shallow groundwater is expected to flow south-southwest toward Scajaquada Creek located approximately 0.7 miles south of the subject site. Scajaquada Creek flows in a westerly direction and ultimately discharges to the Niagara River. The surface elevation for the subject site is approximately 600 feet above mean sea level. EA has surmised that the regional groundwater table typically conforms to surface and bedrock topography. Localized shallow groundwater flow may vary as a result of underground utilities, site features, or other subsurface conditions.

2.3 Site History and Land Use

A summary of most probable subject site history indicates that the subject site and surrounding properties were originally developed as a radiator manufacturing plant, occupied by American Radiator Co. beginning circa 1912 and utilized as such until approximately 1959 when the plant reportedly closed. During that time, structural improvements were erected on the subject site and surrounding parcels which included four buildings with additions that were situated in the central portion of the overall American Radiator site associated with the foundry, the bulk of which was located to the west of the subject site.

Following the closure of the American Radiator facility in 1959, the American Radiator and Standard Stamping Plant (1803 Elmwood Avenue) and Office (1807 Elmwood Avenue), totaling 55-acres at the corner of Elmwood and Hertel Avenues, were sold to Irving Levick, Buffalo real estate investor and chairman of Sattler's Department Store. Levick planned to move some warehousing operations out of his Seneca Warehouse (701 Seneca Street; formerly the Larkin Warehouse) to the Elmwood Avenue property, which would reportedly fill more than half of the plant. The Elmwood Avenue property became known as the Seneca Warehouse and Industrial Center, Inc.

Although exact occupants of the subject site structures could not be determined, the subject site was part of a larger property formerly occupied by Sattler's Home Furnishing City and was utilized as a department store as well as for warehousing, in addition to those occupants listed in Section 5.3 Municipal Directories of the 2022 Phase I ESA report[2]. Five of the six Sattler's Department Store locations reportedly closed in 1982. Reportedly, Niagara Machine occupied the Site structure prior to 1990; however, the time frame of occupancy is not known.

[2] "Phase I Environmental Site Assessment, Industrial Property, Western Portion of 1803 Elmwood Avenue, Buffalo, New York 14207, EA Project No: e2124" prepared for MOD-PAC CORP. by Environmental Advantage, Inc.

Based on the results of a Title search, the former larger parcel was leased to Buffalo Industrial Leasing Corp. in 1977, several sections were sold off to MOD-PAC, CORP. in the 1980s, and NEWBUFF HOLDINGS CORPORATION purchased the larger Site parcel in 1992. NEWBUFF HOLDINGS began leasing the western building to O'Connell Machinery Company, Inc. (on the subject site) in 1998 and to 1803-1807 Elmwood Avenue LLC in 2003.

Upon acquisition of the larger parcel by NEWBUFF HOLDINGS CORPORATION in 1992, this warehouse area was utilized as commercial spaces for multiple tenants. Since 1992, AIRSEP (1992-1996), Goodwill (1996-1998), Mack Pallet (1996-1998), and O'Connell Machinery Co, Inc. (1998-2021) have occupied the western Site structure which is the only portion of the larger parcel buildings that are on the subject site.

3.0 INVESTIGATIVE ACTIVITIES

Prior to performing any on-site investigative activities, underground utilities were located by the Underground Facilities Protection Organization. On-site field investigative activities were completed by EA on July 28, 2020, October 12-13, 2021, and April 21, 2022.

3.1 Vapor Intrusion Sampling

An inspection of the western Site structure occupied by the O'Connell Machinery Company (O'Connell) was completed on July 28, 2020 by EA, just prior to completion of the preliminary soil vapor intrusion (SVI) sampling. At this time, the approximate +/-14,400 square-foot warehouse structure was nearly completely filled with old large metalworking machines and equipment, tools and other metal parts and debris. Most equipment was partially dismantled, either to assist in its transport or for scavenging useable parts. A variety of greases and petroleum products were observed dripping from and covering portions of this equipment, in some cases being soaked up by granular material. Petroleum-like odors were clearly notable during the site inspection. The integrity of the concrete floor was poor in the area that could be observed. At the direction of MPC, O'Connell had just begun the process of removing their equipment from this Site structure when the SVI investigation was conducted. Due to the time of the year, the building's heating system was not activated during the limited sampling activities. No product inventory was completed due to the widespread petroleum product exposures inside the building, and as a result, ambient indoor air sampling was not completed due to the likely interference.

Two temporary sub-slab sampling points were completed on the southern end of the Site structure as depicted in Figure 3, with one being installed in the southwest corner of the structure and the second being installed in the southeast corner of the structure near an open overhead door. The SS-1 location was selected due to its proximity to what is known as "Area A" within the adjacent MPC BCP parcel, where an active sub-slab depressurization system (SSDS) is operating due to the identification of elevated TCE levels beneath the building slab. Both the SS-1 and

SS-2 locations were also selected due to their relative location near monitoring wells MW-3 and MW-13 on the adjacent BCP site where TCE has been identified in the groundwater. The sub-slab sample points consisted of a ½-inch diameter hole completed with a rotary hammer drill through a competent portion of the concrete floor, away from any cracks (as best as possible). The sub-slab vapor was screened for the presence of volatile organic compounds (VOCs) using a pre-calibrated portable photo-ionization detector (PID) equipped with an organic vapor meter (OVM). OVM readings were identified above background levels (>5ppm) at both of the sub-slab vapor sample locations [SS-1, 23 ppm; SS-2, 160 ppm]. Clean, dedicated ¼-inch inside diameter polyethylene tubing was then placed into the hole and extended approximately 2 inches below the concrete slab. The core-hole annulus was sealed at the floor surface with modeling clay. Sub-slab soil vapor samples were then collected using a 2.7-liter capacity Summa canister fitted with a laboratory calibrated flow regulation device to allow the collection of the soil vapor sample over an 8-hour sample collection time. Pre- and post-sampling vacuum/air pressure readings were taken and recorded on a field sheet for these sampling apparatus. All sampling and purging flow rates were below 0.2 liters per minute. Soil vapor intrusion sampling field notes are included in Attachment C.

After the 8-hour sampling intervals, the sampling canisters were removed from their tubing/regulator, packaged and shipped to Alpha Analytical to be analyzed for VOCs via United States Environmental Protection Agency (USEPA) Method TO-15. The sample canisters were handled under standard chain-of-custody procedures until their receipt by the analytical laboratory.

3.2 Oily Debris and Concrete floor Sampling/Analysis

Also during the inspection of the Site structure as described above, oily residues were noted in a number of areas throughout the building. A sample was collected of the oily residue at three (3) separate locations and each was screened for the presence of polychlorinated biphenyls (PCBs) with DEXSIL® Clor-N-Soil® PCB Screening Kits. PCBs were identified at all three sampling locations:

- Surface-001 >50 ppm
- Surface-002 ~35 ppm
- Surface-003 ~40 ppm

Based on these results, the floor was scraped clean at location Surface-001 and a sample of the concrete was collected from where sample Surface-001 was located as depicted in Figure 3. The concrete sample was placed in an appropriate container, sealed and labeled, preserved by cooling, and handled under chain of custody procedures until receipt by a NYSDEC-approved analytical laboratory to be analyzed for PCBs via USEPA Method 8082.

3.3 Soil Boring Installation

A direct-push track-mounted Geoprobe was mobilized to the subject site to install soil/fill borings in an effort to identify the presence of soil contamination related to the conditions of concern described above. Interior and exterior soil borings were completed at twenty-six (26) locations on October 12-13, 2021, and at an additional

fifteen (15) locations on April 21, 2022, all within various identified areas of concern on the larger parcel as depicted in Figure 4. At each of the boring locations, direct push Geoprobe Macrocore probes were used to obtain discrete soil samples continuously to refusal, boring requirements, and/or observed conditions.

Sampling equipment was initially decontaminated before use and between each sampling location. The soil/fill encountered at each sampling location was visually described from the discrete samples obtained and included on the soil boring logs provided in Attachment D. Upon collection, a portion of each discrete soil/fill sample was screened for the presence of volatile organic compounds (VOCs) using a pre-calibrated portable photo-ionization detector (PID) equipped with an organic vapor meter (OVM). OVM readings were identified above background levels (>5 ppm) in four of forty-one (41) soil borings:

- SB-23 (4.5-5.0') 15 ppm
- SB-33 (3.5'-4.5') 72 ppm
- SB-34 (2.0-3.5') 6-10 ppm
- SB-36 (1.0-2.0') 1000-390 ppm

The selection of soil/fill samples for analysis was limited by the project scope and was also influenced to a limited extent by previous investigations on the MPC property surrounding the Site structure on three (3) sides as well as observed site features. Fourteen (14) soil/fill samples were selected from discrete samples collected in October 2021 for laboratory analysis, and thirteen (13) additional soil/fill samples were selected from discrete samples collected in April 2022 for laboratory analysis.

Selected soil/fill samples were placed in appropriate containers, sealed and labeled, preserved by cooling, and handled under chain of custody procedures until receipt by a NYSDEC-approved analytical laboratory. These samples were analyzed for one or more of the following analytical parameters based on observed conditions of the soil profile and/or observed Site features:

- Target Compound List (TCL) VOCs via USEPA Method 8260;
- TCL + Spills Technology and Remediation Series (STARS) list VOCs via USEPA Method 8260;
- TCL semi-volatile organic compounds (SVOCs) via USEPA Method 8270;
- Target Analyte List (TAL) Metals via USEPA Method 6010 and 7471;
- Total PCBs via USEPA Method 8082.

4.0 INTERPRETATION OF RESULTS

4.1 Discussion of Field Observations

A total of twenty-seven (27) exterior borings and fourteen (14) interior borings were completed in October 2021 and April 2022 utilizing a direct-push track-mounted Geoprobe. The results of this investigation are as follows:

October 2021

Exterior soil borings SB-5, SB6, SB-7, and SB-8 were completed along the western property line, directly adjacent to what is known as “Area A” on the adjacent MPC BCP site, near where an active SSDS is operating due to the identification of elevated TCE levels underneath the building slab. Soil borings SB-5, SB6, SB-7, and SB-8 are also in the vicinity of “off-site” groundwater sample SB-201, where TCE was identified in June 2018 during sampling activities related to the BCP remediation of the adjacent MPC BCP site. Exterior soil borings SB-4 and SB-25 were completed in the area or former railroad beds. Exterior soil boring SB-11 was completed in the area of a former transformer house, and soil borings SB-10, SB-12, SB-13, SB-14, SB-15, SB-16, SB-17 and SB-22 were completed throughout the property to provide blanket coverage of the entire parcel. Interior soil borings SB-1, SB-2, SB-3, SB-23, SB-24 and SB-26 were completed inside of the former O’Connell Machinery Co. structure in areas where either cracks in the concrete floor or oil staining of the concrete floor was identified or where former railroad tracks were located inside the structure interior. Interior soil borings SB-9, SB-18, SB-19, SB-20, and SB-21 were completed inside the leased warehouse building on the larger parcel.

April 2022

Exterior soil borings SB-4a, SB-31, SB-32, SB-33 and SB-34 were completed within the former railroad track; SB-4a was also completed near previous boring SB-4 where metals and SVOCs were identified. Exterior soil borings SB-7a, SB-8a, and SB-30 were completed along the western property line, directly adjacent to SSDS “Area A”, and in the vicinity of “off-site” groundwater sample SB-201 on the adjacent MPC BCP site where TCE was previously identified as described above. Soil boring SB-8a was also completed near previous boring SB-8 where VOCs, SVOCs and metals were identified. Exterior soil borings SB-34, SB-40 and SB-41 were completed adjacent to MW-13 located on the adjacent MPC BCP site where TCE has been identified in the groundwater. Exterior soil boring SB-35 was completed near previous boring SB-25 where foundry sand had been identified. Interior soil boring SB-37 was completed adjacent to interior SVI sample SS-2 where TCE had been previously detected underneath the sub-slab. Interior soil boring SB-36 was completed within the former rail track inside the O’Connell structure, SB-38 was completed within a former pit, and SB-39 was completed near SVI sample SS-2, where TCE had been previously detected as described below.

Subsurface conditions generally consisted of various fill materials encountered at each location, generally extending to depth ranging from 0.5-feet below grade to up to 7.0-feet below grade, or until boring refusal. The fill material appeared to be sub-base gravel and/or typical industrial fill, consisting mostly of foundry sand and/or sand intermixed with cinders, brick fragments, gravel, and slag debris intermixed throughout. Naturally deposited cohesive silt and clay with trace amounts of sand and gravel was generally encountered below the fill material.

4.2 Discussion of Analytical Results

As indicated above, soil/fill samples submitted for laboratory analysis were selected primarily based upon EA's observations of the soil/fill materials encountered

within the probe holes (i.e., odors, residues, discoloration, sheens, etc.) and the PID/OVM screening results. Fourteen (14) soil/fill samples were selected from the borings completed in October 2021 from the following borings and sampling intervals for laboratory analysis: SB-1 (0.5-1.5'), SB-3 (0.5-1.5'), SB-4 (0.5-4;), SB-8 (5-7'), SB-9 (0.5-3'), SB-11 (2.5-5'), SB-12 (2.5-3.5'), SB-12 (3.5-4.5'), SB-16 (0.5-1.5'), SB-19 (0.5-3'), SB-21 (1-1.5'), SB-22 (0.5-3'), SB-22 (0.5-3'), and SB-23 (4.5-5'). An additional thirteen (13) soil/fill samples were selected from the borings completed in April 2022 from the following borings and sampling intervals for laboratory analysis: SB-4a (0.5-2.5'), SB-7a (3-5'), SB-8a (2.5-4.5'), SB-30 (1.5-3'), SB-32 (0.5-2'), SB-33 (0.5-3.5'), SB-33 (3.5-4.5'), SB-34 (2-3'), SB-34 (3-4'), SB-36 (1-2'), SB-37 (0.5-3'), SB-38 (10-13'), and SB-40 (1.5-3.5'). Soil/fill analytical results are summarized in Table 1 in Attachment E. The full analytical reports are presented in Attachment F.

The one (1) concrete sample submitted for laboratory analysis was selected primarily based upon the field screening results from the oily granular material samples screened and EA's observations of the age of the equipment in the vicinity of the stained area.

The sub-slab samples were completed to evaluate the potential presence of VOCs beneath the Site structures slab at the subject site. This sampling was completed in general accordance with the New York State Department of Health (NYSDOH) final document entitled "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", dated October 2006 as amended, with the exception that ambient indoor and ambient outdoor air samples were not collected due to uncontrolled Site conditions. Vapor intrusion sample results are summarized in Table 2 in Attachment E, with the results of NYSDOH priority CVOCs presented in a decision matrix in Table 3. The analytical laboratory report is provided in Attachment F.

Soil Analytical Results:

VOCs analytical test results detected up to eleven (11) VOCs at concentrations above method detection limits in all seventeen (17) of the soil/fill samples analyzed for VOCs. Two chlorinated VOC (CVOC) analytes – cis-1,2-dichloroethene (cis-DCE) and trichloroethene (TCE), were detected at concentrations in exceedance of the NYSDEC Unrestricted Use Soil Cleanup Objective (UUSCO) and/or Residential Use Soil Cleanup Objectives (RUSCO) as presented in NYSDEC 6 NYCRR Subpart 375-6.8 Remedial Program guidance at the following boring locations:

- **cis-DEC** was detected in the sample analyzed from SB-8 (5-7') at concentrations exceeding the UUSCO.
- **TCE** was detected in the samples analyzed from SB-8 (5-7') and SB-9 (0.5-3') at concentrations in exceedance of the UUSCO and RUSCO, respectively.

Methylene chloride (MC) and **vinyl chloride** (VC) were not detected above laboratory detection limits in any of the samples analyzed by the lab. However, the reporting limits for MC and VC were considerably higher than the SCO values for these parameters due to sample dilution by the laboratory.

SVOCs analytical test results detected up to twenty-three (23) SVOCs at concentrations above method detection limits in eighteen (18) of the nineteen (19) soil/fill samples analyzed for SVOCs. Eight (8) polycyclic aromatic hydrocarbons (PAHs) were detected at concentrations in exceedance of the NYSDEC RUSCO, Restricted Residential Use Soil Cleanup Objective (RRUSCO), Commercial Use Soil Cleanup Objective (CUSCO), and/or Industrial Use Soil Cleanup Objectives (IUSCO) as presented in NYSDEC 6 NYCRR Subpart 375-6.8 Remedial Program guidance at the following boring locations:

- **Benzo(a)anthracene** was detected in the samples analyzed from SB-4 (0.5-4'), SB-8 (5-7'), SB-11 (2.5-5'), SB-7a (3.5'), SB-8a (2.5-4.5'), SB-32 (0.5-2'), and SB-36 (1-2') at concentrations in exceedance of the RRUSCO, CUSCO or IUSCO.
- **Benzo(a)pyrene** was detected in the samples analyzed from SB-4 (0.5-4'), SB-8 (5-7'), SB-4a (0.5-2.5'), SB-7a (3.5'), SB-8a (2.5-4.5'), SB-32 (0.5-2') and SB-36 (1-2') at concentrations in exceedance of the CUSCO or IUSCO.
- **Benzo(b)fluoranthene** was detected in the samples analyzed from SB-4 (0.5-4'), SB-8 (5-7'), SB-11 (2.5-5'), SB-4a (0.5-2.5'), SB-7a (3.5'), SB-8a (2.5-4.5'), SB-32 (0.5-2') and SB-36 (1-2') at concentrations in exceedance of the RRUSCO, CUSCO or IUSCO.
- **Benzo(k)fluoranthene** was detected in the samples analyzed from SB-4 (0.5-4'), SB-8 (5-7'), SB-8a (2.5-4.5'), SB-32 (0.5-2'), and SB-36 (1-2') at concentrations in exceedance of the RUSCO or RRUSCO.
- **Chrysene** was detected in the samples analyzed from SB-4 (0.5-4'), SB-8 (5-7'), SB-11 (2.5-5'), SB-12 (3.5-4.5'), SB-4a (0.5-2.5'), SB-7a (3.5'), SB-8a (2.5-4.5'), SB-32 (0.5-2'), and SB-36 (1-2') at concentrations in exceedance of the RUSCO or RRUSCO.
- **Dibenzo(a,h)anthracene** was detected in the samples analyzed from SB-4 (0.5-4'), SB-8 (5-7'), SB-8a (2.5-4.5'), SB-32 (0.5-2') and SB-36 (1-2') at concentrations in exceedance of the RRUSCO, CUSCO or IUSCO. Reporting limits were greater than the CUSCO due to sample dilution for SB-11 (2.5-5') and SB-12 (3.5-4.5').
- **Indeno(1,2,3-cd)pyrene** was detected in the samples analyzed from SB-4 (0.5-4'), SB-8 (5-7'), SB-11 (2.5-5'), SB-22 (0.5-3'), SB-4a (0.5-2.5'), SB-7a (3.5'), SB-8a (2.5-4.5'), SB-32 (0.5-2') and SB-36 (1-2') at concentrations in exceedance of the RRUSCO, CUSCO or IUSCO. Reporting limits were greater than the RRUSCO due to sample dilution for SB-12 (3.5-4.5').
- **Naphthalene** was detected in the sample analyzed from SB-36 (1-2') at concentrations in exceedance of the UUSCO.
- **Dibenzofuran** was detected in the sample analyzed from SB-36 (1-2') and **phenol** was detected in the samples analyzed from SB-12 (3.5-4.5'), and SB-36 (1-2'), both at concentrations in exceedance of the UUSCO.

Metals analytical test results detected up to twenty-three (23) metals at concentrations above method detection limits in all eighteen (18) of the soil/fill samples analyzed. Metals were detected at concentrations in exceedance of the

NYSDEC UUSCO, RRUSCO and IUSCO as presented in NYSDEC 6 NYCRR Subpart 375-6.8 Remedial Program guidance at the following boring locations:

- **Arsenic** was detected in the samples analyzed from SB-1 (0.5-1.5'), SB-3 (0.5-1.5'), SB-12 (2.5-3.5'), SB-33 (0.5-3.5') and SB-34 (2-3') at concentrations in exceedance of the IUSCO, and at SB-30 (1.5-3') at concentrations in exceedance of the UUSCO.
- **Copper** was detected in the samples analyzed from SB-12 (2.5-3.5') and SB-36 (1-2') at concentrations in exceedance of the UUSCO.
- **Lead** was detected in the samples analyzed from SB-1 (0.5-1.5'), SB-4 (0.5-4'), SB-7a (3.5') and SB-8a (2.5-4.5') at concentrations in exceedance of the UUSCO, and at SB-30(1.5-3') at concentrations in exceedance of the RRUSCO.
- **Manganese** was detected in the samples analyzed from SB-34 (2-3') at concentrations in exceedance of the RRUSCO.
- **Mercury** was detected in the samples analyzed from SB-4 (0.5-4'), SB-8 (5-7') and SB-8a (2.5-4.5') at concentrations in exceedance of the RRUSCO, UUSCO and IUSCO, respectively.
- **Zinc** was detected in the samples analyzed from SB-4 (0.5-4'), SB-4a (0.5-2.5'), SB-7a (3.5') and SB-8a (2.5-4.5') at concentrations in exceedance of the UUSCO.

PCBs analytical test results identified two (2) different PCBs Arochlors at two (2) locations above method detection limits out of the eight (8) of the soil/fill samples analyzed for PCBs. No PCBs components were detected at concentrations in exceedance of the NYSDEC SCO as presented in NYSDEC 6 NYCRR Subpart 375-6.8 Remedial Program guidance.

Concrete Analytical Results:

PCBs analytical results identified three (3) Arochlors at concentrations above method detection limits in the one (1) concrete sample collected. Total PCBs were 1.75 ppm in concrete sample concrete-001 which is in exceedance of the CUSCO.

Sub-slab Vapor Analytical Results:

The results of the sub-slab vapor samples analyzed cannot be compared directly to any regulatory standards. In general, New York State currently does not have specific standards, criteria or guidance values for concentrations of VOCs in sub-slab vapor samples. However, NYSDOH had developed decision matrices to provide guidance on a case-by-case basis about actions that should be taken to address current or potential exposures related to soil vapor intrusion. Actions recommended in the matrix are based on relationship between sub-slab vapor concentrations and corresponding indoor air concentrations, with considerations for outdoor air results. Eight chemicals are currently assigned to three matrices, including:

Matrix A Trichloroethene (TCE); cis-1,2-Dichloroethene (cis-DCE); 1,1-Dichloroethene (1,1-DCE); Carbon Tetrachloride (CT);

Matrix B Tetrachloroethene (PCE); 1,1,1-Trichloroethane (1,1,1-TCA); Methylene Chloride (MC); and

Matrix C Vinyl Chloride (VC)

As indicated above, the purpose of collecting sub-slab vapor samples at the subject site was to provide basic information concerning specific on-site conditions relative to the potential for vapor intrusion following site redevelopment. Indoor and outdoor ambient air samples were not collected as part of this sampling event due to uncontrolled site conditions. A summary of the detected vapor concentrations is included in Table 2. These results for each sample location are described as follows:

- **SS-1 (072820) (sub-slab)** – Twenty-two (22) VOCs were detected above method detection limits. Three priority compounds listed on the NYSDOH decision matrices were identified as cis-1,2-DCE, TCE and PCE.
- **SS-2 (072820) (sub-slab)** – Fourteen (14) VOCs were detected above method detection limits. TCE was the only priority compound listed on the NYSDOH decision matrices was identified, TCE detected in this sample; however, this sample was heavily diluted and exhibited elevated reporting limits.

4.3 NYSDOH Decision Matrices

Of the twenty-two (22) VOCs which were detected above method detection limits in the sub-slab samples, three (3) parameters are listed on the NYSDOH decision matrices for evaluating soil vapor intrusion and are summarized below. Additionally, four (4) NYSDOH decision matrix compounds not detected exhibited elevated reporting limits (related to high laboratory dilution) in the SS-2 (072820) sample.

- **TCE** was detected in both sub-slab samples, indicating that there is a source of TCE under the slab in the southern portion of the Site structure. The decision matrix from the NYSDOH guidance indicates that action is needed due to the elevated concentration at SS-2 (072820). The source of the TCE is not known.
- **cis-DCE** was detected in the SS-1 (072820) sub-slab sample, and although not detected in this sample, exhibited an elevated reporting limit due to laboratory dilution. The decision matrix from the NYSDOH guidance indicates “no further action”.
- **PCE** was detected in the SS-1 (072820) sub-slab sample, and although not detected in this sample, exhibited an elevated reporting limit due to laboratory dilution. The decision matrix from the NYSDOH guidance indicates “no further action”.
- **1,1-DCE, CT and VC** were not detected in the SS-2 (072820) sample, although all three of these compounds exhibited elevated reporting limits due to laboratory dilution. The decision matrix from the NYSDOH guidance indicates “no further action”.

Analytical testing results are presented in Table 2, and the decision matrices applied to the current data set are presented in Table 3. The full analytical report is provided in Attachment F.

4.4 Summary and Conclusions

Based on the results of this focused investigation, EA suggests that Objectives 1 (release of hazardous substances to environmental media) and 2 (identifying property conditions for target analytes that may pose human health or environmental risks) as presented above in Section 1.4 were met. Evidence of PAHs and/or heavy metals were identified in soil borings SB-1, SB-2, SB-3, SB-4, SB-4A, SB-7A, SB-8, SB-8a, SB-11, SB-12, SB-22, SB-30, SB-32, SB-33, SB-34, and SB-36. The majority of these soil sampling locations/intervals had at least one parameter exceeding NYSDEC Part 375 Industrial Use SCOs. CVOCs were identified in soil borings SB-8 and SB-9. CVOCs were also previously identified in the groundwater at the western edge of the Site. Also, soil vapor monitoring conducted at one location identified sub-slab TCE at levels requiring mitigation. Based on the data and information collected during this focused Phase II investigation, it is EA's opinion that further investigative activities and/or remedial efforts are warranted at the subject site.

4.5 Summary of Business Environmental Risk

Based on the results of this focused investigation, EA suggests that Objective 3 presented above in Section 1.4 was also met. The potential impact of the analytical results obtained for this site compared to the possible proposed use(s) must be considered. Based on the sub-slab data obtained, any future use of this structure may require both mitigation and further monitoring, possibly under the guidance of the NYSDOH. Similarly, any site development outside the building may lead to NYSDEC Part 360 or Part 370 materials/wastes management activities as regulated by the Department. Historical groundwater data from wells existing on-site suggest that either an on-site source may exist, or a source that is upgradient from the site may exist. It should also be noted that sampling locations were selected in areas of concern based on data and information provided by the Site operator and EA's knowledge of the adjacent Site. Nonetheless, EA can only warrant the site conditions in the specific areas of the site that were investigated, with samples collected but not selected for analysis based on screening and visual characterization not yielding more than supplemental information. It is possible that due to this limited sampling protocol, other areas of concern on-site may be identified with further testing for delineation as part of a likely remedial program.

Attachment A

Groundwater Documents

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

(FORMERLY MACPHERSON STREET)

ELMWOOD AVENUE

MANDAN STR

LEDGER ST

SB120 SB148 SB149 & MW–4 SB124 SB123 SB155 SB154 SB139 SB125 & MW–6 SB143 SB138 SB117 SB118 SB137 SB153 SS-9/ IA-9 SS-7/ IA-7 SS-5/ IA-5 SS-10/ IA-10 SB151 SB150 SB156 PT-03 PT-02 PT-06 PT-01 BRICK BLDG. NO. 1807 SB170 SB126 SB127 & MW–7 SB152 SS103 SB114 SB115 SS102 SS104 SB157 SS-2/ IA-2 SB113 & MW–2 SB140 SS-11/ IA-11 SS-6/ IA-6 SS-1/ IA-1 SB136 SB135 SB142 SB171 SB112 SB134 BRICK BLDG. NO. 1801 SB111 SB172 & MW–11 SB173 & MW–12 SB116 & MW–3 SB175 & MW–13 SB110 SB174 SB133 SS-3/ IA-3 SB132 SB131 SS-12/ IA-12 SS-8/ IA-8 SS-4/ IA-4 SS101 MW–1 SB109 TP111 SB107 SB106 SB160 SB159 SB101 SB161 SB102 SB158 SB105 SB108 TP110 SB103 & MW–1 SB104 SB145 SB144 TP107 TP112 SB147 & MW–10 SB146 TP109 SB122 TP103 SB162 TP106 SB166 TP108 SB169 SB167 TP101 SB165 TP104 SB163 SB121 & MW–5 TP102 SB130 & MW–9 SB164 TP105 SB129 & MW–8 SB168 SB128

SB201 SB202 SB206 SB203 SB207 SB204 SB205

Parameter	SB201	
Volatiles 8260C Analysis (ug/L)		
2-Butanone	4.2	J
Acetone	53	
Benzene	0.17	J
Carbon disulfide	1.8	J
cis-1,2-Dichloroethene	2.5	
Trichloroethene	8.4	
Vinyl chloride	0.52	J

Parameter	SB203	
Volatiles 8260C Analysis (ug/L)		
2-Butanone	11	
Acetone	51	
Benzene	ND	
Carbon disulfide	1.3	J
cis-1,2-Dichloroethene	ND	
Trichloroethene	ND	
Vinyl chloride	ND	

Parameter	SB204
Volatiles 8260C Analysis (ug/L)	
2-Butanone	ND
Acetone	8.6
Benzene	ND
Carbon disulfide	ND
cis-1,2-Dichloroethene	ND
Trichloroethene	ND
Vinyl chloride	ND

Parameter	SB207
Volatiles 8260C Analysis (ug/L)	
2-Butanone	ND
Acetone	ND
Benzene	ND
Carbon disulfide	ND
cis-1,2-Dichloroethene	ND
Trichloroethene	ND
Vinyl chloride	ND

Mod-Pac Corporation

NewBuff Associates, LLC

s Inc.

Conrail Property

CONRAIL (FORMERLY NEW YORK CENTRAL RAILROAD)

⊗ = Off-site groundwater sampling location

= Concentration exceeds Class GA Criteria

WITTMAN GEOSCIENCES, PLLC

Off-site Groundwater Sample Locations
1801 Elmwood, Buffalo, NY
BCP #C915314

DRAWN BY: MMW	SCALE: 1"=100'	PROJECT: 18-103
CHECKED BY: MMW	DATE: 01/2019	FIGURE NO: 10

Table 11
VOC Concentration in off-site Groundwater Samples
1801 Elmwood Avenue, Buffalo, NY

Parameter	GA	SB201	SB203	SB204	SB207
		6/4/2018	6/1/2018	6/1/2018	6/1/2018
		L1820300-10	L1820300-04	L1820300-05	L1820300-03
Volatiles 8260C Analysis (ug/L)					
2-Butanone	50	4.2 J	11	ND	ND
Acetone	50	53	51	8.6	ND
Benzene	1	0.17 J	0.5 U	0.5 U	ND
Carbon disulfide	60	1.8 J	1.3 J	ND	ND
cis-1,2-Dichloroethene	5	2.5	ND	ND	ND
Trichloroethene	5	8.4	ND	ND	ND
Vinyl chloride	2	0.52 J	ND	ND	ND

Notes:
1. Analytical testing performed by Alpha Analytical. Compounds detected in one or more samples are presented in this table. Refer to Appendix for the full analytical report.
2. ug/L = parts per billion; mg/L = parts per million.
3. ND = not detected; NT = not tested; NV = no value.
4. Analytical results compared to NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.
5. J = Estimated value. The target analyte is below the reporting limit (RL), but above the method dectection limit (MDL).
6. Shading indicates: exceeds NYSDEC Class GA criteria

HAZARD EVALUATIONS

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB201

Project Name & Location: IRT investigation (off site)
Project Number: e1600 S
Start Date: 6/1/18 End Date: 6/1/18
GW Depth While Drilling: 3.5'
GW Depth at Completion:

HEI Representative: E. Betzold
Type of Drill Rig: Track Mount
Drilling Contractor: Matrix
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Concrete	
1	1	0.5-4	20	DK. Brown f/c sand, some silt, tr. Gravel, moist (FILL)	0
2					6
3				Grades to... tr. Slag, wet	0
4	2	4-8	48	Grades to... Saturated Red Brown Clay & Silt tr. f/c Sand, tr. Gravel, moist (FILL)	0
5				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist	0
6					0
7					0
8	3	8-12'	40	Grades to... little f/c Sand.	0
9					0
10					0
11					0
12					0
13				Bottom of Boring 12' bg Temporary well installed to 12' bg	
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB202

Project Name & Location: RI investigation (off-site)
HEI Representative: E. Berzold
Project Number: 01605
Start Date: 6/1/18 End Date: 6/1/18
Type of Drill Rig: Track Mount
GW Depth While Drilling: 3.5'
Drilling Contractor: Matrix
GW Depth at Completion:
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Asphalt	
1	1	0.5-4	30	Brown f/c sand, some Gravel, little silt, tr. Brick, moist (FILL)	0
2					0
3				Grades to... DK. Brown, tr. Gravel	0
4	2	4-8'	40	Grades to... wet Red/Brown Clay & Silt, little f/c sand, tr. Gravel, moist (FILL)	0
5				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist.	0
6					0
7					0
8	3	8-12	40		0
9					0
10					0
11					0
12					0
13				Bottom of Boring 12' bg Temporary well installed to 12' bg	
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB203

Project Name & Location: RI Investigation
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 6/1/18 End Date: 6/1/18
Type of Drill Rig: Track
GW Depth While Drilling: 6'
Drilling Contractor: Matrix
GW Depth at Completion:
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
1	1	0.5-4	36	Asphalt Brown f/c sand and Gravel, little silt, tr. Brick, tr. Concrete, moist (fill)	0
2				Grades to... Dk. Brown, little cinders, tr. Gravel, tr. silt	0
3				Brown clay & Silt, little f/c sand, tr. Gravel, moist, (fill)	0
4	2	4-8	40		0
5				Grades to... Gray/Brown, tr. roots,	0
6				Grades to... little f/c sand, wet,	0
7				Grades to... moist,	0
8	3	8-12	36		0
9				Grades to... Brown, some f/c sand, little Gravel, tr. concrete. Grades to... tr. f/c sand, tr. Gravel.	0
10				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist,	0
11					0
12	4	12-15	40		0
13					0
14					0
15					0
16				Bottom of Boring 15' bg Temporary well installed to 15' bg	
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB204

Project Name & Location: RI Investigation
Project Number: E1605
Start Date: 6/1/18 End Date: 6/1/18
GW Depth While Drilling: 6'
GW Depth at Completion:

HEI Representative: E. Betzold
Type of Drill Rig: Track
Drilling Contractor: Matrix
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
1	1	0.5-4'		Asphalt Brown f/c sand and Gravel, little silt, moist (FILL)	0
2				Grades to... Dk. Brown, little cinders, tr. Gravel.	0
3				Grades to... tr. cinders, wet.	0
4	2	4-8	40	Gray/Brown Clay & Silt, little f/c sand, tr. Gravel, moist (FILL)	0
5					0
6				Grades to... some f/c sand, wet	0
7				Grades to... little f/c Sand, moist Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
8	3	8-12	40		0
9					0
10					0
11					0
12	4	12-14"	24		0
13					0
14					0
15				Refusal encountered at 14' bg Temporary well installed to 14' bg	
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB205

Project Name & Location: RI Investigation
Project Number: e1605
Start Date: 6/1/18 End Date: 6/1/18
GW Depth While Drilling:
GW Depth at Completion:

HEI Representative: E. Betzold
Type of Drill Rig: Track
Drilling Contractor: Matrix
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-4	36	DK Brown f/c sand, some silt, tr. Gravel, tr. wood, moist (FILL)	
1					0
2					0
				Red/Brown clay & silt, little f/c sand, tr. Gravel, tr. Brick, moist (FILL)	
3					0
4	2	4-8'	40		0
5					0
6				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
7					0
8	3	8-12	36		0
9					0
10					0
11					0
12	4	12-14	24		0
13					0
14					0
				Refusal encountered @ 14' bg	
15				Temporary well installed to 14' bg	
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB206

Project Name & Location: RJ Investigation
HEI Representative: E. Bedrosian
Project Number: e1605
Start Date: 6/1/18 End Date: 6/1/18
Type of Drill Rig: Track
GW Depth While Drilling: 3.5'
Drilling Contractor: Matrix
GW Depth at Completion:
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-4'	30	Brown f/c Sand, some Gravel, little Silt, moist, (FILL)	0
1				Grades to... Dk. Brown	
2					0
3				Grades to... little cinders	0
				Grades to... tr. cinders, wet	
4	2	4-8'	36	Brown Clay & Silt, tr. f/c Sand, tr. Gravel, moist (FILL)	0
5				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist	0
6					0
7					0
8	3	8-12	40		0
9					0
10					0
11					0
12					0
13				Refusal encountered @ 12' bg	
14				Temporary well set to 10' bg	
15					
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB207

Project Name & Location: RI Investigation
HEI Representative: E. Bedrosian
Project Number: e1605
Start Date: 6/1/18 End Date: 6/1/18
Type of Drill Rig: Track
GW Depth While Drilling: 5.5
Drilling Contractor: Matrix
GW Depth at Completion: 4.7'
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-4	36	Brown f/c Sand, little Gravel, tr. Concrete, tr. Silt, Mo. St (Fill)	
1				Grades to .. Dk Brown	0
2				Grades to ... some cinders	0
3				Grades to ... tr. cinders	0
4	2	4-8	30		0
5				Grades to ... wet Grades to ... Saturated	0
6					0
7					0
8	3	8-12	30	Brown clay & Silt, little f/c sand, tr. Gravel, most (Fill)	0
9				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, most	0
10					0
11					0
12					0
13				Refusal at 12' bg Temporary well installed to 10' bg	
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS

Well Data Sheet

Date: 6/4/18 Job #: e1605

Well ID: SB201

Crew: EB

Well Depth (TOR): 10.15'

Well Depth (GS): 9.15'

Initial Water Level (TOR): 9.35'

Initial Water Level (GS): 8.35'

Volume Calculation: 0.8" X .041 X 3 = .10 gal

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity
11:00am	.1 gal	–	–	–	low

Purge Method: (Bailer)/Submersible Pump

Initial Water Quality: Good

Final Water Quality: Poor

SAMPLE RECORD

Date: 6/4/18

Time: 11:10 AM

Crew: EB, GB

Method: Bailer

Sample ID: SB201

Water Quality: Good

pH: –

Conductivity: –

Temperature: –

Turbidity: low

Volume: 3 x 40 ml VOAs

Analysis: VOC 8260 TCL

Chain of Custody #: –

Sample Type: grab

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: Sand and Bentonite were installed to keep the wells in operation over the weekend. GW Present on 6/4/18

TOR= Top of Riser

GS= Ground Surface

Signature: Eric Bush

HAZARD EVALUATIONS

Well Data Sheet

Date: 6/1/18 Job #: E1605

Well ID: SB202

Crew: EB

Well Depth: 11.4'(TOR), 10.3'(GS)

Initial Water Level (TOR): No water

Initial Water Level (GS): No water

Volume Calculation:

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity

Purge Method: Bailer/Submersible Pump

Initial Water Quality

Final Water Quality

SAMPLE RECORD

Date:

Time:

Crew:

Method:

Sample ID:

Water Quality:

pH:

Conductivity:

Temperature:

Turbidity:

Volume:

Analysis:

Chain of Custody #:

Sample Type:

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: Filed in due to being in the driveway.

TOR= Top of Riser

GS= Ground Surface

Signature:

HAZARD EVALUATIONS

Well Data Sheet

Date: 6/1/18

Job #: e1605

Well ID: SB203

Crew: EB

Well Depth (TOR): 15.15'

Well Depth (GS): 14.15'

Initial Water Level (TOR): 14.1'

Initial Water Level (GS): 13.1'

Volume Calculation: 1.05 x .041 x 3 = .13 gal

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity
2:40pm	.13 gal	—	—	—	low

Purge Method: (Bailer)/Submersible Pump

Initial Water Quality Good

Final Water Quality Good

SAMPLE RECORD

Date: 6/1/18

Time: 2:45pm

Crew: EB

Method: Bailer

Sample ID: SB203

Water Quality: Average

pH: —

Conductivity: —

Temperature: —

Turbidity: Medium

Volume: 3x 40 ml VOAs

Analysis: VOC 8260 TCL

Chain of Custody #: —

Sample Type: grab

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments:

TOR= Top of Riser

GS= Ground Surface

Signature:

HAZARD EVALUATIONS

Well Data Sheet

Date: 6/1/18 Job #: e1605

Well ID: SB204

Crew: EB

Well Depth: 13.85'(TOR), 12.85'(GS)

Initial Water Level (TOR): 5'

Initial Water Level (GS): 4'

Volume Calculation: 0.36x.041x3 = 1.1gal

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity
3:10Pm	1.1gal	—	—	—	Low

Purge Method: ~~Bailer~~/Submersible Pump

Initial Water Quality Average

Final Water Quality Average

SAMPLE RECORD

Date: 6/1/18

Time: 3:20Pm

Crew: EB

Method: Bailer

Sample ID: SB204

Water Quality: Average

pH: —

Conductivity: —

Temperature: —

Turbidity: low

Volume: 3x 40ml VOAs

Analysis: VOC 8260 TCL

Chain of Custody #: —

Sample Type: Grab

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments:

TOR= Top of Riser

GS= Ground Surface

Signature: Eric Bl

HAZARD EVALUATIONS

Well Data Sheet

Date: 6/1/18 Job #: e1605

Well ID: SB 205

Crew: EB

Well Depth: 13.46' (TOR) 12.46' (GS)

Initial Water Level (TOR): No water

Initial Water Level (GS): No water

Volume Calculation:

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity

Purge Method: Bailer/Submersible Pump

Initial Water Quality

Final Water Quality

SAMPLE RECORD

Date:

Time:

Crew:

Method:

Sample ID:

Water Quality:

pH:

Conductivity:

Temperature:

Turbidity:

Volume:

Analysis:

Chain of Custody #:

Sample Type:

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: Sand and Bentonite installed to keep well in operation over the weekend. No water present on 6/4/18.

TOR= Top of Riser

GS= Ground Surface

Signature:

HAZARD EVALUATIONS

Well Data Sheet

Date: 6/1/18 Job #: 61605

Well ID: SB206

Crew: EB

Well Depth: 10.3' (TOR) 9.3 (GS)

Initial Water Level (TOR): No water

Initial Water Level (GS): No water

Volume Calculation:

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity

Purge Method: Bailer/Submersible Pump

Initial Water Quality

Final Water Quality

SAMPLE RECORD

Date:

Time:

Crew:

Method:

Sample ID:

Water Quality:

pH:

Conductivity:

Temperature:

Turbidity:

Volume:

Analysis:

Chain of Custody #:

Sample Type:

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: Sand and Bentonite installed to keep well in operation over the weekend. No water present on 6/4/18.

TOR= Top of Riser

GS= Ground Surface

Signature:

HAZARD EVALUATIONS

Well Data Sheet

Date: 6/1/18 Job #: e1605

Well ID: SB207

Crew: EB

Well Depth: 9.9' (TOR), 8.9' (GS)

Initial Water Level (TOR): 5.9

Initial Water Level (GS): 4.9'

Volume Calculation: 4 X .041 X 3 = .49 gal

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity
2:10pm	.5 gal	-	-	-	low

Purge Method: (Bailer)/Submersible Pump

Initial Water Quality Poor

Final Water Quality Average

SAMPLE RECORD

Date: 6/1/18

Time: 2:15pm

Crew: EB

Method: Bailer

Sample ID: SB207

Water Quality: Average

pH: -

Conductivity: -

Temperature: -

Turbidity: low

Volume: 3 X 40 mL VOA

Analysis: VOC 8260 TCL

Chain of Custody #: -

Sample Type: grab

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments:

TOR= Top of Riser

GS= Ground Surface

Signature: Eric J Bly

ANALYTICAL REPORT

Lab Number:	L1820300
Client:	Wittman GeoSciences 8187 Boston Colden Road Colden, NY 14033
ATTN:	Michele Wittman
Phone:	(716) 574-1513
Project Name:	RI INVESTIGATION (GW SAMPLING)
Project Number:	E1605
Report Date:	06/08/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RI INVESTIGATION (GW SAMPLING)
Project Number: E1605

Lab Number: L1820300
Report Date: 06/08/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1820300-01	TRIP BLANK 060118	WATER	1801 ELMWOOD AVE., BUFFALO, NY	06/01/18 09:00	06/01/18
L1820300-02	EQUIPMENT RINSATE 060118	WATER	1801 ELMWOOD AVE., BUFFALO, NY	06/01/18 12:15	06/01/18
L1820300-03	SB207	WATER	1801 ELMWOOD AVE., BUFFALO, NY	06/01/18 14:15	06/01/18
L1820300-04	SB203	WATER	1801 ELMWOOD AVE., BUFFALO, NY	06/01/18 14:45	06/01/18
L1820300-05	SB204	WATER	1801 ELMWOOD AVE., BUFFALO, NY	06/01/18 15:20	06/01/18
L1820300-09	SB204 DUPLICATE	WATER	1801 ELMWOOD AVE., BUFFALO, NY	06/01/18 15:20	06/01/18
L1820300-10	SB201	WATER	1801 ELMWOOD AVE., BUFFALO, NY	06/04/18 11:10	06/04/18
L1820300-11	TRIP BLANK 060418	WATER	1801 ELMWOOD AVE., BUFFALO, NY	06/04/18 11:20	06/04/18

Project Name:	RI INVESTIGATION (GW SAMPLING)	**Lab Number:**	L1820300
Project Number:	E1605	**Report Date:**	06/08/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RI INVESTIGATION (GW SAMPLING)	**Lab Number:**	L1820300
Project Number:	E1605	**Report Date:**	06/08/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1820300-11: Headspace was noted in the sample container utilized for analysis. The analysis was performed at the client's request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 06/08/18

ORGANICS

VOLATILES

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-01
Client ID: TRIP BLANK 060118
Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY

Date Collected: 06/01/18 09:00
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 16:09
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-01 Date Collected: 06/01/18 09:00

Client ID: TRIP BLANK 060118 Date Received: 06/01/18

Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	97		70-130

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-02
Client ID: EQUIPMENT RINSATE 060118
Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY

Date Collected: 06/01/18 12:15
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 16:37
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-02 Date Collected: 06/01/18 12:15

Client ID: EQUIPMENT RINSATE 060118 Date Received: 06/01/18

Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	99		70-130

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-03
Client ID: SB207
Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY

Date Collected: 06/01/18 14:15
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 14:17
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-03 Date Collected: 06/01/18 14:15

Client ID: SB207 Date Received: 06/01/18

Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	99		70-130

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-04
Client ID: SB203
Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY

Date Collected: 06/01/18 14:45
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 19:34
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-04 Date Collected: 06/01/18 14:45

Client ID: SB203 Date Received: 06/01/18

Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	51		ug/l	5.0	1.5	1
Carbon disulfide	1.3	J	ug/l	5.0	1.0	1
2-Butanone	11		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	97		70-130

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-05
Client ID: SB204
Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY

Date Collected: 06/01/18 15:20
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 13:49
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-05 Date Collected: 06/01/18 15:20

Client ID: SB204 Date Received: 06/01/18

Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	8.6		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	98		70-130

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-09
Client ID: SB204 DUPLICATE
Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY

Date Collected: 06/01/18 15:20
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 14:45
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-09 Date Collected: 06/01/18 15:20

Client ID: SB204 DUPLICATE Date Received: 06/01/18

Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	8.4		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	99		70-130

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-10
Client ID: SB201
Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY

Date Collected: 06/04/18 11:10
Date Received: 06/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 15:13
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.17	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.52	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	8.4		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-10 Date Collected: 06/04/18 11:10

Client ID: SB201 Date Received: 06/04/18

Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.5		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	53		ug/l	5.0	1.5	1
Carbon disulfide	1.8	J	ug/l	5.0	1.0	1
2-Butanone	4.2	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	97		70-130

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-11 Date Collected: 06/04/18 11:20
Client ID: TRIP BLANK 060418 Date Received: 06/04/18
Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 15:41
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

SAMPLE RESULTS

Lab ID: L1820300-11 Date Collected: 06/04/18 11:20

Client ID: TRIP BLANK 060418 Date Received: 06/04/18

Sample Location: 1801 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	99		70-130

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 11:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05,09-11 Batch: WG1123557-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 11:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05,09-11 Batch: WG1123557-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 11:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05,09-11 Batch: WG1123557-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	99		70-130

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 17:46
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1123877-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 17:46
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1123877-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: RI INVESTIGATION (GW SAMPLING) **Lab Number:** L1820300

Project Number: E1605 **Report Date:** 06/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 17:46
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1123877-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RI INVESTIGATION (GW SAMPLING)

Project Number: E1605

Lab Number: L1820300

Report Date: 06/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05,09-11 Batch: WG1123557-3 WG1123557-4								
Methylene chloride	89		88		70-130	1		20
1,1-Dichloroethane	98		96		70-130	2		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	110		110		63-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	95		95		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		98		62-150	2		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
Bromoform	110		100		54-136	10		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	97		97		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	71		73		64-130	3		20
Bromomethane	70		68		39-139	3		20
Vinyl chloride	72		69		55-140	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RI INVESTIGATION (GW SAMPLING)

Project Number: E1605

Lab Number: L1820300

Report Date: 06/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05,09-11 Batch: WG1123557-3 WG1123557-4								
Chloroethane	58		57		55-138	2		20
1,1-Dichloroethene	88		86		61-145	2		20
trans-1,2-Dichloroethene	95		92		70-130	3		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	110		100		70-130	10		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	97		96		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	89		85		36-147	5		20
Acetone	110		100		58-148	10		20
Carbon disulfide	85		83		51-130	2		20
2-Butanone	94		87		63-138	8		20
4-Methyl-2-pentanone	100		100		59-130	0		20
2-Hexanone	120		110		57-130	9		20
Bromochloromethane	100		98		70-130	2		20
1,2-Dibromoethane	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	100		96		41-144	4		20
Isopropylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	79		74		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RI INVESTIGATION (GW SAMPLING)

Project Number: E1605

Lab Number: L1820300

Report Date: 06/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05,09-11 Batch: WG1123557-3 WG1123557-4								
1,2,4-Trichlorobenzene	93		90		70-130	3		20
Methyl Acetate	93		87		70-130	7		20
Cyclohexane	89		88		70-130	1		20
1,4-Dioxane	132		114		56-162	15		20
Freon-113	89		86		70-130	3		20
Methyl cyclohexane	92		91		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	128		121		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	113		113		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RI INVESTIGATION (GW SAMPLING)

Project Number: E1605

Lab Number: L1820300

Report Date: 06/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1123877-3 WG1123877-4								
Methylene chloride	100		95		70-130	5		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	94		97		63-130	3		20
1,1,2-Trichloroethane	93		96		70-130	3		20
Tetrachloroethene	71		**68**	Q	70-130	4		20
Chlorobenzene	100		96		75-130	4		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	110		100		70-130	10		20
Bromoform	75		74		54-136	1		20
1,1,2,2-Tetrachloroethane	74		72		67-130	3		20
Benzene	100		98		70-130	2		20
Toluene	97		93		70-130	4		20
Ethylbenzene	100		98		70-130	2		20
Chloromethane	100		93		64-130	7		20
Bromomethane	130		120		39-139	8		20
Vinyl chloride	110		100		55-140	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RI INVESTIGATION (GW SAMPLING)

Project Number: E1605

Lab Number: L1820300

Report Date: 06/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1123877-3 WG1123877-4								
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	100		97		61-145	3		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	84		77		70-130	9		20
1,3-Dichlorobenzene	86		79		70-130	8		20
1,4-Dichlorobenzene	86		78		70-130	10		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	120		110		36-147	9		20
Acetone	90		95		58-148	5		20
Carbon disulfide	100		98		51-130	2		20
2-Butanone	95		100		63-138	5		20
4-Methyl-2-pentanone	81		88		59-130	8		20
2-Hexanone	76		88		57-130	15		20
Bromochloromethane	100		100		70-130	0		20
1,2-Dibromoethane	97		97		70-130	0		20
1,2-Dibromo-3-chloropropane	63		68		41-144	8		20
Isopropylbenzene	87		79		70-130	10		20
1,2,3-Trichlorobenzene	83		79		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RI INVESTIGATION (GW SAMPLING)

Project Number: E1605

Lab Number: L1820300

Report Date: 06/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1123877-3 WG1123877-4								
1,2,4-Trichlorobenzene	88		83		70-130	6		20
Methyl Acetate	83		88		70-130	6		20
Cyclohexane	110		100		70-130	10		20
1,4-Dioxane	80		88		56-162	10		20
Freon-113	110		100		70-130	10		20
Methyl cyclohexane	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	93		91		70-130
Dibromofluoromethane	102		101		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: RI INVESTIGATION (GW SAMPLING)
Project Number: E1605
Lab Number: L1820300
Report Date: 06/08/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Client ID: SB207	Associated sample(s): 01-03,05,09-11					QC Batch ID: WG1123557-6			WG1123557-7	QC Sample: L1820300-03		
Methylene chloride	ND	10	9.1	91		9.4	94		70-130	3		20
1,1-Dichloroethane	ND	10	10	100		10	100		70-130	0		20
Chloroform	ND	10	11	110		11	110		70-130	0		20
Carbon tetrachloride	ND	10	12	120		12	120		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	11	110		11	110		63-130	0		20
1,1,2-Trichloroethane	ND	10	10	100		11	110		70-130	10		20
Tetrachloroethene	ND	10	9.8	98		10	100		70-130	2		20
Chlorobenzene	ND	10	9.9	99		10	100		75-130	1		20
Trichlorofluoromethane	ND	10	11	110		12	120		62-150	9		20
1,2-Dichloroethane	ND	10	13	130		13	130		70-130	0		20
1,1,1-Trichloroethane	ND	10	12	120		12	120		67-130	0		20
Bromodichloromethane	ND	10	12	120		12	120		67-130	0		20
trans-1,3-Dichloropropene	ND	10	10	100		11	110		70-130	10		20
cis-1,3-Dichloropropene	ND	10	11	110		11	110		70-130	0		20
Bromoform	ND	10	9.5	95		10	100		54-136	5		20
1,1,2,2-Tetrachloroethane	ND	10	11	110		11	110		67-130	0		20
Benzene	ND	10	11	110		11	110		70-130	0		20
Toluene	ND	10	10	100		10	100		70-130	0		20
Ethylbenzene	ND	10	10	100		10	100		70-130	0		20
Chloromethane	ND	10	7.9	79		8.0	80		64-130	1		20
Bromomethane	ND	10	5.9	59		6.2	62		39-139	5		20
Vinyl chloride	ND	10	7.9	79		8.0	80		55-140	1		20

Matrix Spike Analysis

Batch Quality Control

Project Name: RI INVESTIGATION (GW SAMPLING)
Project Number: E1605
Lab Number: L1820300
Report Date: 06/08/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Client ID: SB207	Associated sample(s): 01-03,05,09-11					QC Batch ID: WG1123557-6		WG1123557-7	QC Sample: L1820300-03			
Chloroethane	ND	10	6.4	64		6.5	65		55-138	2		20
1,1-Dichloroethene	ND	10	9.5	95		10	100		61-145	5		20
trans-1,2-Dichloroethene	ND	10	9.9	99		10	100		70-130	1		20
Trichloroethene	ND	10	11	110		11	110		70-130	0		20
1,2-Dichlorobenzene	ND	10	8.9	89		8.9	89		70-130	0		20
1,3-Dichlorobenzene	ND	10	8.4	84		8.4	84		70-130	0		20
1,4-Dichlorobenzene	ND	10	8.5	85		8.1	81		70-130	5		20
Methyl tert butyl ether	ND	10	11	110		11	110		63-130	0		20
p/m-Xylene	ND	20	19	95		19	95		70-130	0		20
o-Xylene	ND	20	19	95		20	100		70-130	5		20
cis-1,2-Dichloroethene	ND	10	10	100		10	100		70-130	0		20
Styrene	ND	20	18	90		18	90		70-130	0		20
Dichlorodifluoromethane	ND	10	9.4	94		9.6	96		36-147	2		20
Acetone	ND	10	9.3	93		10	100		58-148	7		20
Carbon disulfide	ND	10	9.0	90		9.2	92		51-130	2		20
2-Butanone	ND	10	8.3	83		8.9	89		63-138	7		20
4-Methyl-2-pentanone	ND	10	10	100		11	110		59-130	10		20
2-Hexanone	ND	10	11	110		11	110		57-130	0		20
Bromochloromethane	ND	10	10	100		11	110		70-130	10		20
1,2-Dibromoethane	ND	10	10	100		11	110		70-130	10		20
1,2-Dibromo-3-chloropropane	ND	10	9.0	90		9.9	99		41-144	10		20
Isopropylbenzene	ND	10	10	100		10	100		70-130	0		20
1,2,3-Trichlorobenzene	ND	10	5.2	**52**	Q	5.9	**59**	Q	70-130	13		20

Matrix Spike Analysis

Batch Quality Control

Project Name: RI INVESTIGATION (GW SAMPLING)
Project Number: E1605
Lab Number: L1820300
Report Date: 06/08/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Client ID: SB207	Associated sample(s): 01-03,05,09-11		QC Batch ID: WG1123557-6			WG1123557-7			QC Sample: L1820300-03			
1,2,4-Trichlorobenzene	ND	10	6.0	**60**	Q	6.3	**63**	Q	70-130	5		20
Methyl Acetate	ND	10	7.9	79		8.5	85		70-130	7		20
Cyclohexane	ND	10	9.6J	96		9.9J	99		70-130	3		20
1,4-Dioxane	ND	500	160J	**32**	Q	460	92		56-162	**97**	Q	20
Freon-113	ND	10	9.6	96		9.8	98		70-130	2		20
Methyl cyclohexane	ND	10	9.5J	95		9.6J	96		70-130	1		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		118		70-130
4-Bromofluorobenzene	111		112		70-130
Dibromofluoromethane	98		99		70-130
Toluene-d8	97		97		70-130

Project Name: RI INVESTIGATION (GW SAMPLING)
Project Number: E1605

Lab Number: L1820300
Report Date: 06/08/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
A1	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820300-01A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-01B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-02A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-02B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-02C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-03A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-03A1	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-03A2	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-03B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-03B1	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-03B2	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-03C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-03C1	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-03C2	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-04A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-04B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-04C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-05A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-05B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-05C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-09A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-09B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: RI INVESTIGATION (GW SAMPLING)
Project Number: E1605

Lab Number: L1820300
Report Date: 06/08/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820300-09C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1820300-10A	Vial HCl preserved	A1	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L1820300-10B	Vial HCl preserved	A1	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L1820300-10C	Vial HCl preserved	A1	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L1820300-11A	Vial HCl preserved	A1	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L1820300-11B	Vial HCl preserved	A1	NA		3.6	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	RI INVESTIGATION (GW SAMPLING)	**Lab Number:**	L1820300
Project Number:	E1605	**Report Date:**	06/08/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RI INVESTIGATION (GW SAMPLING)	**Lab Number:**	L1820300
Project Number:	E1605	**Report Date:**	06/08/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 6/2/18

ALPHA Job #: L1820300

Client Information

Client: Wittman Geosciences
Address: 3636 N. Buffalo Rd
Orchard Park, NY 14127
Phone: 716-574-1513
Fax:
Email: michelewittmangeo@gmail.com

Project Information

Project Name: RI investigation (Gw sampling offsite)
Project Location: 1801 Elmwood Ave Buffalo, NY
Project # e1605
(Use Project name as Project #) ☐
Project Manager: Cindy Fox
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days: 5 day turn

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Open new Sample delivery group; keep sample delivery group open.

Please specify Metals or TAL.

ANALYSIS

VOC 8260 TCL

Sample Filtration

☐ Done
☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260 TCL	Sample Specific Comments	Total Bottle
20300 -01	Trip Blank 060118	6/1/18	900am	WA	EB	X		2
02	Equipment Rinsate 060118	6/1/18	1215pm	WA	EB	X		3
03	SB207	6/1/18	2:15pm	GW	EB	X		3
↓	SB207 MS	6/1/18	2:15pm	GW	EB	X		3
↓	SB207 MSD	6/1/18	2:15pm	GW	EB	X		3
04	SB203	6/1/18	2:45pm	GW	EB	X		
05	SB204	6/1/18	3:20pm	GW	EB	X		
06	SB204 Duplicate	6/1/18	3:20pm	GW	EB	X		

Container Type: V
Preservative: B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Eric J Bitta	6/1/18 1540	[illegible] FedEx AAL	6/1/18 15:40
Audrey Kelly AAL	6/1/18 16:00		6/2/18 01:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 6/5/18

ALPHA Job #: L1820300

Client Information

Client: Wittman GeoSciences
Address: 3636 N. Buffalo Rd
Orchard Park NY 14127
Phone: 716-667-3130
Fax: 716-667-3156
Email: michelewittmangeo@gmail.com

Project Information

Project Name: RI Investigation (offsite GW sampling)
Project Location: 1801 Elmwood Ave. Buffalo, NY
Project #: e1605
(Use Project name as Project #)
Project Manager: Cindy Fox
ALPHAQuote #:

Turn-Around Time

Standard: X
Rush (only if pre approved):
Due Date:
of Days: 5 day firm

Deliverables

- ASP-A
- X ASP-B
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Billing Information

- X Same as Client Info

PO #

Regulatory Requirement

- NY TOGS
- NY Part 375
- AWQ Standards
- NY CP-51
- NY Restricted Use
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
- NJ
- NY
- Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Close sample delivery group.

Please specify Metals or TAL.

ANALYSIS

VOC 8260 TCL

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260 TCL	Sample Specific Comments	Total Bottle
20300-01	SB201	6/4/18	11:10am	GW	EB	X		3
-02	Trip Blank 060418	6/4/18	11:20am	WA	EB	X		2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V										
Preservative	B										

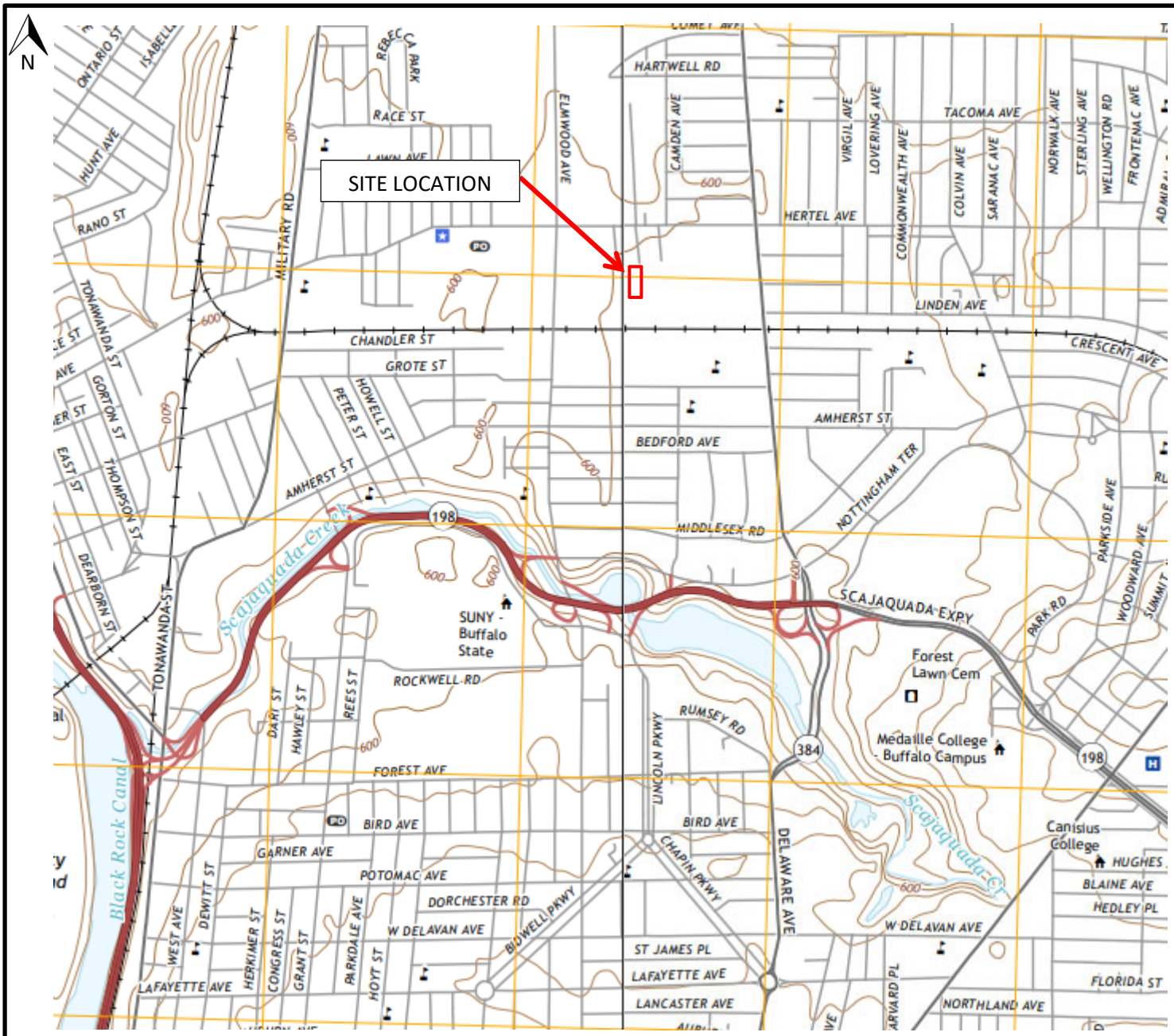
Relinquished By:	Date/Time	Received By:	Date/Time
[signature] AAC	6/4/18 14:15	[signature] AAC	6/04/18 14:15
[signature]	6/04/18 15:40	[signature]	6/5/18 1125

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Attachment B

Figures



THIS DRAWING IS FOR ILLUSTRATIVE AND INFORMATIONAL PURPOSES ONLY
AND WAS ADAPTED FROM USGS, BUFFALO NW, NY, ON QUADRANGLE (2019)
AND USGS, BUFFALO NE, NY, QUADRANGLE (2019)

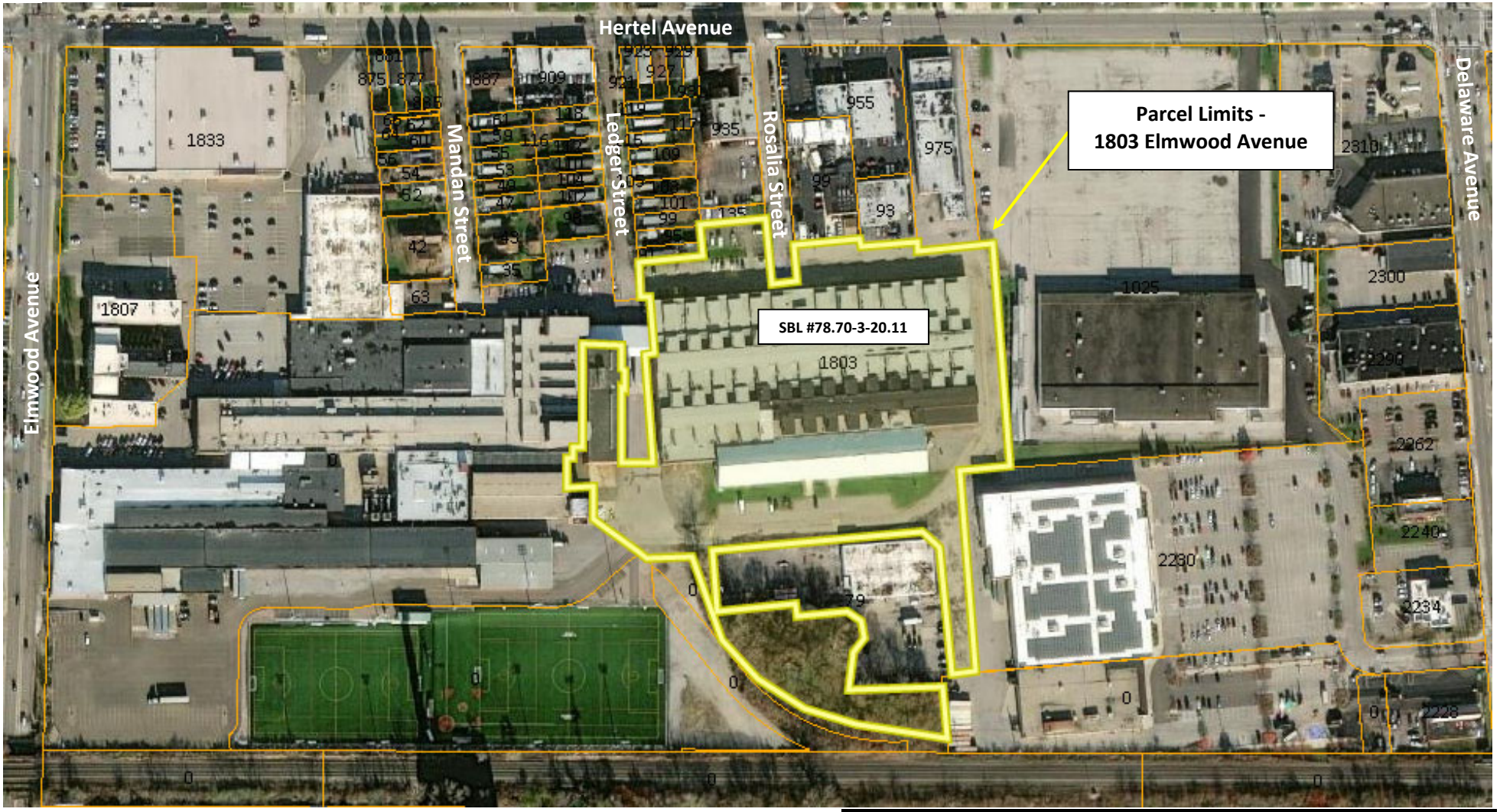
ENVIRONMENTAL ADVANTAGE, INC.

Regulatory Compliance – Site Investigations – Facility Inspections

LOCATION PLAN

FOCUSED PHASE II ENVIRONMENTAL SITE ASSESSMENT
1803 ELMWOOD AVENUE SITE
BUFFALO, NEW YORK

DRAWN BY: JK	SCALE: NOT TO SCALE	PROJECT: 01306
CHECKED BY: CMH	DATE: 10/2022	FIGURE NO: 1



ENVIRONMENTAL ADVANTAGE, INC.

Regulatory Compliance – Site Investigations – Facility Inspections

SITE MAP

FOCUSED PHASE II ENVIRONMENTAL SITE ASSESSMENT
1803 ELMWOOD AVENUE
BUFFALO, NEW YORK

1803 ELMWOOD SITE
BUFFALO, NEW YORK

DRAWN BY: JK	SCALE: NOT TO SCALE	PROJECT: 01306
CHECKED BY: CMH	DATE: 08/2022	FIGURE NO: 2

N



KEY

= Sub-slab sample location.

= Concrete sample location.

= Surface sample location.

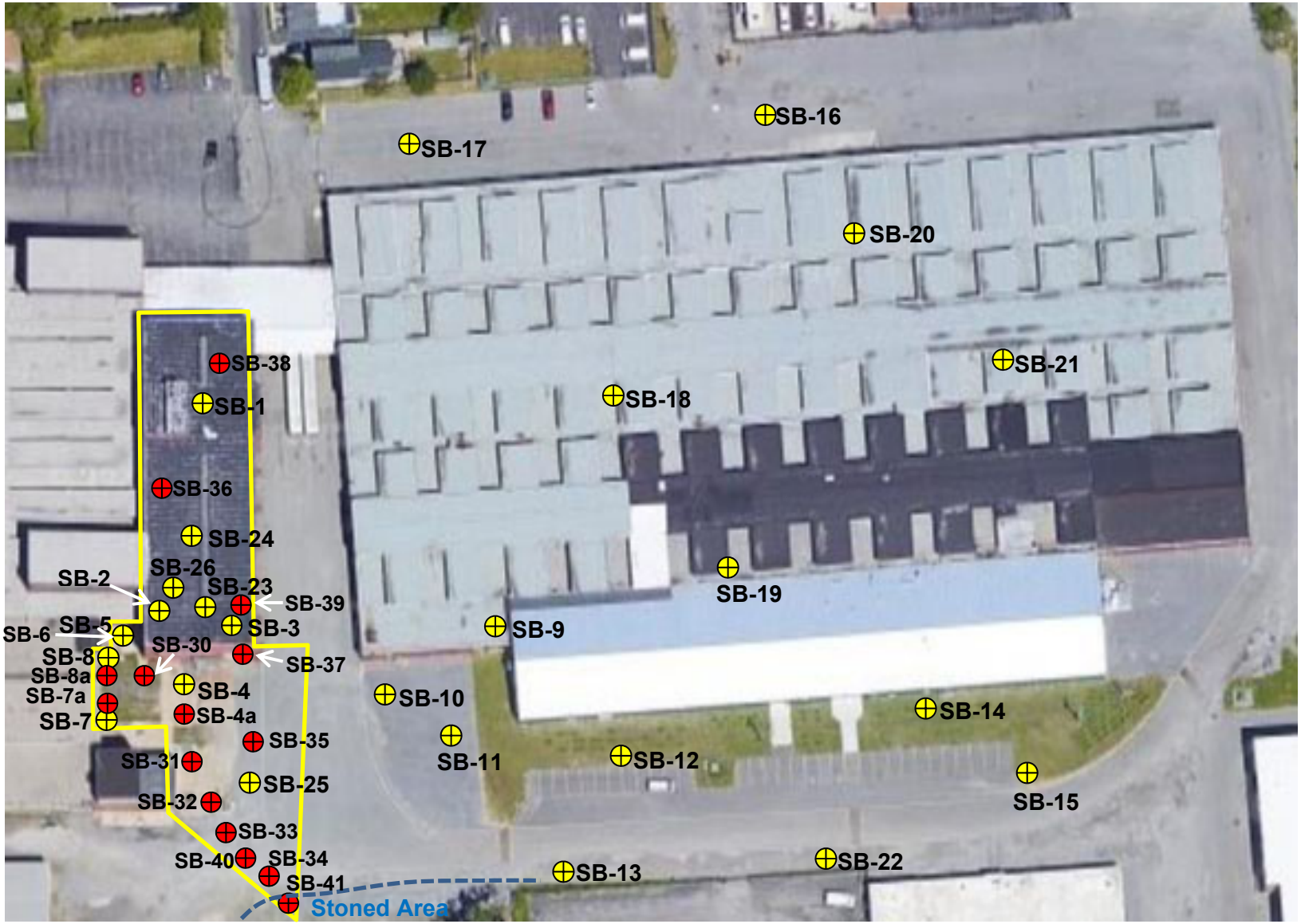
ENVIRONMENTAL ADVANTAGE, INC.

Regulatory Compliance – Site Investigations – Facility Inspections

FOCUSED PHASE II ENVIRONMENTAL SITE ASSESSMENT
SUB-SLAB & CONCRETE BORING LOCATIONS
1803 ELMWOOD AVENUE
BUFFALO, NEW YORK

MOD-PAC CORP.
1801 ELMWOOD AVENUE
BUFFALO, NEW YORK

DRAWN BY: MS	SCALE: NOT TO SCALE	PROJECT: 01306
CHECKED BY: CMH	DATE: 02/2022	FIGURE NO: 3



KEY

- Soil Boring Location October 2021
- Soil Boring Location April 2022

ENVIRONMENTAL ADVANTAGE, INC.

Regulatory Compliance – Site Investigations – Facility Inspections

FOCUSED PHASE II ENVIRONMENTAL SITE ASSESSMENT
SOIL BORING LOCATIONS
1803 ELMWOOD AVENUE
BUFFALO, NEW YORK

MOD-PAC CORP.
1801 ELMWOOD AVENUE
BUFFALO, NEW YORK

DRAWN BY: EB	SCALE: NOT TO SCALE	PROJECT: 01306
CHECKED BY: CMH	DATE: 5/2022	FIGURE NO: 4

Attachment C

Air/Vapor Sampling Field Data Sheets

AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: MPC Project No.: 01306

Site Name & Address: O'Connell

Person(s) Performing Sampling: Eric Betzold

Sample Identification: SS-1(072820)

Sample Type: ☐ Indoor Air (ambient) ☐ Outdoor Air ☐ Soil Vapor ☒ Sub-slab Vapor

Date of Collection: 7/28/2020 Setup Time: 8:05am Stop Time: 8:25 am

Sample Depth: 6"

Sample Height: —

Sampling Method(s) & Device(s): 2.7L Summa Canister & Regulator

Purge Volume: 160 ml

Sample Volume: 2.7L

Sampling Canister Type & Size (if applicable): 2.7 L Summa

Canister # 0488 Regulator # 01589

Vacuum Pressure of Canister Prior to Sampling: -29.3 "Hg

Vacuum Pressure of Canister After Sampling: -1.30 "Hg

Temperature in Sampling Zone: 75°F

Apparent Moisture Content of Sampling Zone: medium

Soil Type in Sampling Zone: f/c sand

Standard Chain of Custody Procedures Used for Handling & Delivery of Samples to Laboratory:

☒ Yes ☐ No. If no, provide reason(s) why?

Laboratory Name: Alpha Analytical

Analysis: TO-15

Comments: PID reading 23ppm

Concrete slab depth: 4"

8' off west wall, 10' off southwall

Sampler's Signature Eric Betzold Date: 7/28/2020

AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: MPC Project No.: 01306

Site Name & Address: O'Connell

Person(s) Performing Sampling: Eric Betzold

Sample Identification: SS-2(072820)

Sample Type: ☐ Indoor Air (ambient) ☐ Outdoor Air ☐ Soil Vapor ☒ Sub-slab Vapor

Date of Collection: 7/28/2020 Setup Time: 8:20am Stop Time: 8:45am

Sample Depth: 10"

Sample Height: —

Sampling Method(s) & Device(s): 2.7L Summa Canister & Regulator

Purge Volume: 160ml

Sample Volume: 2.7L

Sampling Canister Type & Size (if applicable): 2.7L Summa

Canister # 0655 Regulator # 0649

Vacuum Pressure of Canister Prior to Sampling: -32.3" Hg

Vacuum Pressure of Canister After Sampling: -1.20 "Hg

Temperature in Sampling Zone: 75°F

Apparent Moisture Content of Sampling Zone: Medium

Soil Type in Sampling Zone: f/c Sand

Standard Chain of Custody Procedures Used for Handling & Delivery of Samples to Laboratory:

☒ Yes ☐ No. If no, provide reason(s) why?

Laboratory Name: Alpha Analytical

Analysis: TO-15

Comments:

- PID reading 1600ppm
- Concrete slab depth: 8"
- 18' off South wall, 3' off east wall
- 15' north of Utility Manhole, 15' east of Manhole

Sampler's Signature Eric Betzold Date: 7/28/2020

Attachment D

Soil Boring Logs

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB1

Project Name & Location: MPC Phase II 1803 Elmwood
EA Representative: E. Bedzold
Project Number:
Start Date: 10/12 End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-5	48	Concrete	
1				Black f/c sand, tr. Silt, tr. Gravel, moist (FILL)	0
				Red/Brown clay & silt tr. f/c sand, tr. Gravel, moist (FILL)	
2					0
				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	
3					0
4					
	2	5-10	60		0
5					
6					0
7					0
8					0
9					0
10					0
				Bottom of boring 10' bg	
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Reworked clay from 1-2.5' bg ✓ * Sample (0.5-1.5')

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB2

Project Name & Location: MPC ph. II ESA 1803 Elmwood Ave
EA Representative: E. Bedrosian
Project Number: 01306
Start Date: 10/12 End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: 1'
Drilling Contractor: Matrix
GW Depth at Completion: 1'
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Concrete	
1	1	0.5-2.5	18	Brown f/c sand, little Si. lt. tr. Gravel, saturated. (FILL)	0.2
2				Gradesto... DK Brown, little Gravel,	0.2
3				Refusal encountered @ 2.5' bg	0.2
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB3

Project Name & Location: MPC Ph. II ESA 1803 Elmwood
EA Representative: E. Bedrosian
Project Number: 01306
Start Date: 10/12 End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Concrete	
1	1	0.5-5	50	Dk Brown f/c sand, little cinders, little silt, tr. Gravel, moist (FILL)	0
2				Red/Brown Clay & Silt, tr. f/c sand, tr. Gravel, moist (FILL)	0
3					0
4					0
5	2	5-10	52	Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
6					0
7					0
8					0
9					0
10					0
11				Bottom of Boring 10' bg	
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: * Sample (0.5-1.5') ✓

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB4

Project Name & Location: MPC ph. II ESA 1803 Elmwood
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/12
End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Concrete	
1	1	0.5-5	40	DK. Brown f/c sand, little cinders, tr. Gravel, moist (FILL)	1.2
2					1.2
3					1.2
4					1.2
5	2	5-10	60	Red/Brown Clay & Silt, tr. f/c sand, tr. Gravel, moist (FILL)	1.2
6				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
7					0
8					0
9					0
10					0
11				Bottom of Boring 10' bg	
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: √ Completed outside of O'Connell buildings within former rail tracks.
* Sample 0.5-4 for SVOC, Metals, VOC

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB5

Project Name & Location: MPC ph. II ESA
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/12 End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
1	1			Asphalt concrete	0.5
2				Refusal encountered at 1.5' bg	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Refusal Presumed to be caused by former building footer or floor.

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB6

Project Name & Location: _____ EA Representative: _____

Project Number: _____

Start Date: _____ End Date: _____ Type of Drill Rig: _____

GW Depth While Drilling: _____ Drilling Contractor: _____

GW Depth at Completion: _____ Sampler Type: _____

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
1				Same as SB5	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Refusal at 1.5' bg

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB7

Project Name & Location: MPC ph. II ESA 1803 Elmwood
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/12
End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: 3'
Drilling Contractor: Matrix
GW Depth at Completion: 3'
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
1	1	0.5-5	36	Asphalt Dk Brown f/c sand, some cinders, tr. silt, tr. Gravel, moist	1
2					1
3				Grades to... wet. Grades to... Saturated	1
4					
5	2	5-10	54		1
6				Red/Brown clay & silt, tr. f/c sand, tr. Gravel, moist (FILL) Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist.	1 0
7					0
8					0
9					0
10	3	10-14	48		0
11					0
12					0
13					0
14				Bottom of Boring 14' bg	0
15					
16					
18					
20					
22					
24					

Notes: * Sample 0.5-4' SVOC, Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB8

Project Name & Location: Ph. II ESA 1803 Elmwood Ave
Project Number: 01306
EA Representative: E. Betzold
Start Date: 10/12 End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: 2.5'
Drilling Contractor: Matrix
GW Depth at Completion: 2.5'
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Asphalt	
1	1	0.5-5	40	DK, Brown f/c sand, little cinders, little silt, tr. Gravel, moist (FILL)	2
2					2
				Gradesto.., Saturated, tr. cinders.	
3					0
4					0
5	2	5-7	12	Gradesto.. little Gravel	3
6					3
7				Gradesto.. and wood.	3
				Refusal encountered at 7'	
8					
9					
10					
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Sample (5-7') SVOC, VOC, Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB9

Project Name & Location: MPC Ph. IIESA 1803 Elmwood
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/12
End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Concrete	
1	1	0.5-5	48	Black f/c sand, little Silt, tr. Cinders, tr. Gravel, moist (FILL)	4
2				Gradesto.. little Brick	4
3				Gradesto... tr. Brick	
4				Red/Brown clay & silt, tr. f/c sand, tr. Gravel, moist. (FILL)	4
5	2	5-10	50	Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
6					0
7					0
8					0
9					0
10	3	10-14	54		0
11					0
12					0
13					0
14					0
15				Bottom of Boring 14' bg	
16					
18					
20					
22					
24					

Notes: Sample 0.5-3' for VOC, SVOC, Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB10

Project Name & Location: MPC Ph. II ESA 1803 Elmwood Ave
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/12
End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWWD
Drilling Contractor: Martin
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-5	54	Brown f/c sand and Gravel, little silt, moist (FILL)	
1				Gradesto... and Clay & Silt.	0
2				Brown clay & Silt, tr. f/c sand, tr. Gravel, moist. (FILL)	0
3				Black f/c sand, little concrete, little Silt, tr. Gravel, moist (FILL)	0
4				Brown clay & Silt, tr. f/c sand, tr. Gravel, moist (FILL)	0
5	2	5-10	40	Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist.	0
6					0
7					0
8					0
9					0
10					0
11				Bottom of Boring 10' bg	
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB11

Project Name & Location: MPC ph. II ESA 1803 Elmwood Ave
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/12 End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-5	48	Brown clay & silt, some Gravel,	0
1					
2					1
3				Black f/c sand, some Coal cinder, little silt, tr. Gravel, odor, moist	1
4					1
5	2	5-10	48		1
6				Brown clay & silt, little f/c sand, tr. Gravel, moist.	1
7				Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
8					0
9				Gradesto... Red/Brown	0
10					
11				Bottom of Boring 10' bg	
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: ✓ Sample 2.5-5' for VOC, SVOC, Metals Diesel odor noted

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB12

Project Name & Location: MPC Ph. II ESA 1803 Elmwood Ave
EA Representative: E Betzold
Project Number: 01306
Start Date: 10/12 End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: 4'
Drilling Contractor: Matrix
GW Depth at Completion: NrAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-5	40	Red/Brown clay & Silt, tr. f/c sand, tr. Gravel, moist. (FILL)	0
1				Grades to... tr. Concrete	
2				Grades to... some Black f/c sand, tr. Brick	0
3				Black f/c sand, some cinders, little silt, tr. Gravel, moist (FILL)	
4				Grades to... odor, Stained, wet	3
5	2	5-10	48	Brown clay & Silt, tr. f/c sand, tr. Gravel, moist. (FILL)	3
6				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist.	0
7					0
8					0
9					0
10					0
11				Bottom of Boring 10' bg	
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Sampled 2.5 - 3.5' - Metals
3.5 - 4.5' - VOC, SVOC PCBs

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB13

Project Name & Location: MPC Ph.II ESA
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/12 End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: 4'
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-5	36	Brown f/c sand, some Gravel, little Silt, moist (FILL)	0
1				Grades to... Dk Brown, some cinders, tr slag.	0
2					2
3					2
4				Grades to... tr. Cinders, Saturated.	2
5	2	5-10	52		0
6				Brown clay & Silt, little f/c sand, tr. Gravel, moist (FILL)	0
7				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
8					0
9					0
10					0
11				Bottom of Boring 10' bg	
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Sampled 2-4, Metals, SVOCs, VOCs

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB14

Project Name & Location: MPC Ph. II ESA 1803 Elmwood
EA Representative: E. Bertold
Project Number: 01306
Start Date: 10/12
End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-5	48	Brown clay & silt, tr. f/c sand,	0
1				Concrete	
2				DK Brown f/c sand, little silt, tr. Gravel, moist.	0
3				Brown clay & silt, tr. f/c sand, tr. Gravel, moist (FILL)	0
4				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
5					0
6				Bottom of Boring 5' bg	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB15

Project Name & Location: MPC Ph II ESA, 803 Elmwood Ave
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/12
End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWWD
Drilling Contractor: Modern
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-5	40	Gray Gravel and f/c sand, some Asphalt, moist (FILL)	0
1				DK Brown f/c Sand, some cinders, tr. Gravel, tr. Silt, moist (FILL)	0
2					
3				Brown clay & Silt, tr. f/c sand, tr. Gravel, moist (FILL)	0
4				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist.	0
5	2	5-10	60		0
6					0
7					0
8					0
9					0
10					0
11				Bottom of Boring 10' bg	
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Sampled 1-2.5' for Metals, SVOCs

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB16

Project Name & Location: MPC Ph. II ESA 1803 Elmwood Ave
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/12
End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: 0.5'
Drilling Contractor: Matrix
GW Depth at Completion:
Sampler Type:

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Asphalt	
1	1	0.5 - 5	40	Gray sub-base Gravel, wet (FILL)	2
				Red/Brown clay & Silt	
2				Red/Brown CLAY & SILT, tr. F/C Sand, tr. Gravel, moist	0
3					0
4					0
5	2	5-10	52		0
6					0
7					0
8					0
9					0
10					0
				Bottom of Boring 10 'bg	
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB17

Project Name & Location: MPC Ph. II ESA 1803 Elmwood Ave
EA Representative: C Bedzdl
Project Number: 01306
Start Date: 10/12 End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling:
Drilling Contractor: Matrix
GW Depth at Completion:
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1				
1	1	0.5-5	48	Asphalt Gray Sub-base Gravel, moist (FILL)	0
2					0
				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	
3					0
4					0
5	2	5-10	60		0
6					0
7					0
8					0
9					0
10				BOTTOM OF BORING 10' BGS	
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB18

Project Name & Location: MRC Ph. II ESA, 1803 Elmwood Ave
EA Representative: E. Bertold
Project Number: 01306
Start Date: 10/12
End Date: 10/12
Type of Drill Rig: Track
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Concrete	
1	1	1-5	52	DK Brown f/c sand, little silt,	0.1
2				Red/Brown clay & silt, little f/c sand, tr. Gravel, most. (fill)	0.1
3				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, most.	0
4					0
5	2	5-10	60		0
6					0
7					0
8					0
9					0
10				Bottom of Boring 10' bg	0
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Potentially Sample 1-2' bg for SVOC, Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB19

Project Name & Location: MRC Ph. II ESA / 803 Elmwood Ave
EA Representative: E. Bedrosold
Project Number: 01306
Start Date: 10/13
End Date: 10/13
Type of Drill Rig: Track
GW Depth While Drilling: NWWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Concrete	
1	1	0.5-5	50	Brown f/c sand, little Silt, little Brick, tr. Cinders, moist (fill)	0.4
2				Grades to... little concrete	
3				Red/Brown clay & Silt, tr. f/c sand, tr Gravel, tr. Cinders, moist (fill)	0.4
4				Grades to... no cinders	0.4
5	2	5-10	60	Red/Brown CLAY & SILT, tr. f/c sand, tr Gravel, moist,	0
6					0
7					0
8					0
9					0
10				Bottom of Boring 10' bg	0
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Sample 0.5-5 for VOC, SVOC, Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB20

Project Name & Location: MPC Ph. IIESA
Project Number: 01306
Start Date: 10/13 End Date: 10/13
GW Depth While Drilling: NWWD
GW Depth at Completion: NWAC

EA Representative: E. Betzold
Type of Drill Rig: Track
Drilling Contractor: Matrix
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
1	1	0.5-5	24	Concrete Dk Brown f/c sand, little Silt, tr. Gravel, moist (FILL) Red/Brown clay & Silt, tr. f/c Sand, tr. Gravel, moist. (FILL)	0 0
2				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist.	0
3					0
4					0
5	2	5-10	60		0
6					0
7					0
8					0
9					0
10				Bottom of Boring 10' bg	0
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB21

Project Name & Location: MPC Ph. II ESA 1803 Elmwood Ave
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/13 End Date: 10/13
Type of Drill Rig: Track
GW Depth While Drilling: NWWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Concrete	
1	1	1-5	40	Brick	2
				DK Brown f/c sand, little silt, tr. Gravel, moist (FILL)	
2				Brown clay & silt, little f/c sand, tr Gravel, moist (FILL)	1
3				Red/Brown CLAY & SILT, tr f/c sand, tr. Gravel, moist	1
4					0
5	2	5-10	54		0
6					0
7					0
8					0
9					0
10	3	10-14			0
11					0
12					0
13				Grades to... plastic like clay	0
14					0
15				Bottom of Borng 14' bg	
16					
18					
20					
22					
24					

Notes: * Sample 1-1.5' for VOC, SVOC, Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB22

Project Name & Location: MPC PhII ESA 1803 Elmwood
EA Representative: E. Bedrosian
Project Number: 01306
Start Date: 10/13
End Date: 10/13
Type of Drill Rig: Track
GW Depth While Drilling: 4'
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-5	48	Brown f/c sand, Some Gravel, little silt, moist (FILL)	
1				Grades to... little cinders	1
2				Grades to... Some cinders, little slag	1
3				Red/Brown clay & Silt, little f/c sand, tr. Gravel, moist (FILL)	1
4					0.5
5	2	5-10	40	Dk. Brown f/c sand, some cinders, little silt, tr. Gravel, saturated (FILL)	0.5
6				Brown Silt & clay little f/c sand, tr. Gravel, wet. (FILL)	0
7				Brown CLAY & SILT, Some f/c sand, little roots, tr. Gravel, moist	0
8				Grades to... tr. f/c sand, tr. roots	0
9					0
10	3	10-15	48	Grades to... Red/Brown.	0
11					0
12					0
13					0
14					0
15					0
				Bottom of Boring 15' bg	
16					
18					
20					
22					
24					

Notes: Sample (0.5-3') old topsoil layer @ 6' bg
SVOC Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB 23

Project Name & Location: MPC Phase II ESA
Project Number: 01306
Start Date: 10/13 End Date: 10/13
GW Depth While Drilling: 2
GW Depth at Completion: NWAC

EA Representative: E. Betrold
Type of Drill Rig: Track
Drilling Contractor: Matrix
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Concrete	
1	1	0.5-5	24	Brown f/c sand, little silt, tr. Gravel, moist	0
2					0
				Grades to...wet	
3					0.5
				Grades to saturated	
4					1
5					15
				Bottom of Boring 5' bg	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes: Sampled for VOC 4.5-5'. It is assumed that a former utility pipe was encountered at 5' bg

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB24

Project Name & Location: MPC Ph. II ESA 1803 Elmwood Ave
Project Number: 01306
EA Representative: E. Betrold
Start Date: 10/13 End Date: 10/13
Type of Drill Rig: Track
GW Depth While Drilling: NWWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: ML

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
1	1	0.5-5	48	Concrete Dk Brown f/c Sand	0
2					0
3				Brown clay & Silt, little f/c sand, tr. Gravel, moist (FILL)	0
4				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
5	2	5-10	60"		0
6					0
7					0
8					0
9					0
10					0
11				Bottom of Boring 10' bg	
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB25

Project Name & Location: MPC Ph. II ESA 1803 Elmwood Ave
EA Representative: E. Betzold
Project Number: 01306
Start Date: 10/13 End Date: 10/13
Type of Drill Rig: Track
GW Depth While Drilling: 4'
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Asphalt	
1	1	0.5-5	40"	Gray Sub-base Gravel	0
				Dk Brown f/c sand, little silt, tr gravel, moist. (FILL)	
2					0
3					0
4				Brown silt & clay, little f/c sand, tr. Gravel, wet (FILL)	0
5	2	5-10	60		
				Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0
6					0
7					0
8					0
9					0
10					0
				Bottom of Boring 10' bg	
11					
12					
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Soil Boring
~~Test Pit~~ No: SB26

Project Name & Location: _____ EA Representative: _____

Project Number: _____

Date: _____ End Date: _____ Type of Excavator: _____

Contractor: _____

Sampler Type: _____

Test Pit Depth (ft)	Sample No.	Sample Interval (feet)	OVM Reading (ppm)	SAMPLE DESCRIPTION
				Concrete
1				Refusal @ 15" bg
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

Notes: No recovery. No apparent utilities encountered.

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of test pit completion. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

3636 N. Buffalo Road
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(716) 667-3130

Boring No: SB4a

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: 3
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
	1	0-5	36	Asphalt		
1				DK Brown f/c sand, some Gravel, little cinders, moist (FILL)	0	
				Grades to... some cinders		
2					0	
3				Grades to... tr cinders, tr. Gravel, wet.	0	
4					0	
	2	5-10	48		0	
5				Brown clay & silt, tr. f/c sand, tr. Gravel, moist (FILL)	0	
6				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist.	0	
7					0	
8					0	
9					0	
10				Bottom of Boring 10' bg	0	
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: Sample 0.5-2.5' Metals/SVOC completed 10' south of SB4.

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB7a

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
				Asphalt		
1	1	0.5-5	36	Brown Sub-base Gravel and f/c sand, moist (FILL)	0	
2				Grades to ... little concrete,	0	
				DK Brown f/c Sand, tr. Cinders, tr. Gravel, moist (FILL)	0	
3				Grades to ... Brown, no cinders,		
4				Grades to ... DK Brown Some cinders.	0.5	
				Grades to ... tr. Cinders.	0.5	
5	2	5-10	48			
6				Brown Clay & Silt, tr. f/c sand, tr. Gravel, moist	0	
				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0	
7						
8					0	
9					0	
10					0	
				Bottom of Boring 10' bg		
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: Completed 5' North of SB7.

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB8a

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
				Asphalt		
1	1	0.5-5	40	Brown subbase gravel, and f/c sand, little silt, moist (Fill)	0	
2					0	
3				DK Brown f/c sand, little cinders, tr. Gravel, tr. Silt, moist (Fill)	0	
4				Grades to ... tr. Cinders	0	
				Grades to ... little cinders		
5	2	5-10	48	Grades to ... tr. Cinders	0	
				Brown clay & silt, tr. f/c sand, tr. Gravel, moist (Fill)		
6				Red/Brown CLAY & silt, tr. f/c sand, tr. Gravel, moist,	0	
7					0	
8					0	
9					0	
10					0	
				Bottom of Boring 10' bg		
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: Completed 5' South of SB8

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB30

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
				Asphalt		
1	1	0.5-5	40	Brown sub-base Gravel, and f/c Sand, little silt, moist (Fill)	0	
2				DK. Brown f/c sand, some cinders, little silt, moist (Fill)	0	
3					0	
4				Grades to... tr. cinders.	0	
				Brown clay & silt, tr. f/c sand, tr. Gravel, moist (Fill)		
5	2	5-10	48	Brown CLAY & SILT, tr. f/c sand tr. Gravel, moist	0	
6					0	
7					0	
8					0	
9					0	
10					0	
				Bottom of Boring 10' bg		
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: Sample 1.5-3' for SVOC, Metals, PCBs

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB31

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: NWWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
1	1	0.5-5	40	Concrete Brown Sub-base Gravel, some f/c sand, moist (FILL)	0	
2				DK. Brown f/c sand, tr. Silt, tr. Gravel, tr. cinders, moist (FILL)	0	
3				Grades to... little cinders	0	
4					0	
5	2	5-10	40	Grades to ... tr. Cinders.	0	
6				Brown clay & silt, tr. f/c sand, tr. Gravel, moist (FILL) Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, tr. roots, moist.	0	
7					0	
8					0	
9					0	
10				Bottom of Boring 10' bg	0	
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: possibly Sample (2-3.5') SVOC, Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB32

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: 4.5'
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
	1	0-5'	30	Brown silt&clay, little f/c sand, little Gravel, moist (Fill)		
1				DkBrown f/c sand, tr. Gravel, tr. Silt, tr. Slag, moist (Fill)	0	
2				Grades to... little cinders		
3				Grades to... tr. cinders.	0	
4					0	
5	2	5-10	48	Grades to... wet.	0	
6				Grades to... saturated.	0	
7				Brown clay & silt, tr. f/c sand, tr. Gravel, moist (Fill)	0	
8				Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist.	0	
9					0	
10				Bottom of Boring 10' bg	0	
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: Sample (0.5-2') SVOC, Metals, PCBs

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB33

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: 5.5
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
1	1	0.5-5	40	Asphalt Brown s/b base Gravel, some f/c sand, little Slag, moist (fresh)	0	
2				Grades to... little Cinders	0	
3				Grades to... some cinders	0	
4				Grades to... little cinders.	72 72	
5	2	5-10	40	Grades to ... tr. Cinders, wet	0	
6				Grades to... saturated.	0	
7					0	
8				Brown Clay & Silt, little f/c sand, tr Gravel, wet. Brown CLAY & SILT, little f/c sand, tr Gravel, moist.	0	
9					0	
10				Bottom of Boring 10' bg	0	
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: Sample 3.5-4.5 VOC SVOC
sample 0.5-3.5 Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB34

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: 5'
Drilling Contractor: Matrix
GW Depth at Completion: NWD
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
1	1	0.5-5	36	Asphalt Brown sub-base Gravel, little f/c sand, little silt, moist (FILL) Grades to... some f/c sand.	0	
2				Brown f/c sand, some cinders, little Gravel, little silt, moist (FILL)	6	
3				Dk. Brown f/c sand, tr. Gravel, tr. cinders, moist (FILL)	10	
4					10	
5	2	5-10	40	Grades to... wet.	0	
6				Brown clayey silt, little f/c sand, tr. Gravel, moist (FILL)	0	
7					0	
8				Brown CLAYEY SILT, little f/c sand, tr. Gravel, tr. Roots, moist.	0	
9					0	
10	3	10-15	48	Grades to... Red/Brown.	0	
11					0	
12					0	
13					0	
14					0	
15				Bottom of Borng 15' bg		
16						
18						
20						
22						
24						

Notes: Sample (2-3') metals
Sample (3-4') VOCs

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB35

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
1	-1	0.5-5	40	Asphalt Gray Sub-base Gravel, moist (Fill) Grades to... and f/c Sand, some Silt.	0	
2					0	
3				Brown f/c sand, some silt, tr. Gravel, moist (Fill)	0	
4				Brown Clay & silt, little f/c sand, tr. Gravel, moist (Fill)	0	
5	2	5-10	48		0	
6				Brown CLAY & SILT, little f/c Sand, tr Gravel, moist	0	
7				Grades to... Red/Brown, tr. f/c Sand.	0	
8					0	
9					0	
10					0	
11				Bottom of Boring 10' bg		
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB36

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
				Concrete		
1	1	0.5 - 5	40	Railroad tie Black f/c Sand, some cinders, little Gravel	1000 390	
2					390	
				Brown clay & silt, tr. f/c sand, tr. Gravel, moist (Fill)		
3					1	
				Red/Brown CLAY & SILT, tr. f/c sand, tr Gravel, moist		
4					0.5	
5	2	5-10	48		0	
					0	
6						
7					0	
8					0	
9					0	
10					0	
				Bottom of Boring 10' bgs		
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB37

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: 4'
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
	1	0.5-5	36	Asphalt		
1				Gray Sub-base Gravel, moist (FILL)	4	
				Gradesto... and f/c sand, some Silt.		
2					3	
3					3	
				Brown Clayey Silt, some Gravel, little f/c sand, wet (FILL)		
4				Gradesto... and f/c sand.		
				Dk Brown f/c sand, little Gravel, Saturated (FILL)	0	
5	2	5-10	40		1	
6						
				Red/Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0	
7						
8					0	
9					0	
10					0	
				Bottom of Boring 10' bgs		
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: Sample SB37 0.5-5' for VOC

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB38

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: 5'
Drilling Contractor: Matrix
GW Depth at Completion: NMAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
				Concrete		
1	1	0.5-5	12	Brown f/c sand, moist (FILL)	0	
2					0	
3					0	
4					0	
5	2	5-10	40	Grades to ... saturated	0	
6					0	
7					0	
8					0	
9					0	
10	3	10-13	12	Grades to ... odor, sheen.	0	
11					0	
12					0	
13					0	
14				Refusal encountered @ 13' bg		
15						
16						
18						
20						
22						
24						

Notes: Boring completed inside what appears to be a former pit, which was backfilled with sand. odor/sheen observed @ 10-13' bg. Sampled for SVOC/TCLPCBs

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB39

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: NWWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
				Concrete		
1	1	0.5-5	36	DK. Brown f/c Sand, some cinders, little Gravel, moist (FILL)	0	
2				Brown CLAY & SILT, tr. f/c sand, tr. Gravel, moist	0	
3					0	
4					0	
5	2	5-10'	40		0	
6					0	
7					0	
8					0	
9					0	
10				Bottom of Boring 10' bg	0	
11						
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: Sample (0.5-1.5') Metals/SVOCs

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB40

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: NWD
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
1	1	0.5-5	40	Asphalt Gray Sub-base Gravel, some m-f/c sand, moist (Fill)	0	
2				Dk Brown f/c sand, some cinders, tr. Gravel, moist (Fill)	1	
3				Grades to ... little cinders.	1	
4					0	
5	2	5-10	48	Gray/Brown Clay & silt, tr. f/c Sand, tr. Gravel, moist	0	
6					0	
7					0	
8				Brown CLAY & SILT, little f/c sand, tr. Gravel, tr. roots, moist	0	
9				Grades to ... no roots.	0	
10					0	
11				Bottom of Boring to 10' bg		
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: Sample 1.5-3.5' for SVOC/Metals

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

3636 N. Buffalo Road
Orchard Park, NY 14127
(716) 667-3130

Boring No: SB41

Project Name & Location: MPC O'Connell Site Investigation April 2022
EA Representative: E. Betzold
Project Number: 1306
Start Date: 4/21/2022 End Date: 4/21/2022
Type of Drill Rig: Track Geoprobe
GW Depth While Drilling: 2'
Drilling Contractor: Matrix
GW Depth at Completion: NWAC
Sampler Type: Geoprobe Macrocore

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)	Well Diagram/ Remarks
	1	0-5	40	Gravel, moist (FILL)	0	
1				Dk. Brown f/c Sand, some cinders, tr. Gravel, moist (FILL)	0	
2				Grades to... wet		
				Grades to... tr. cinders,	0	
3				Brown Clay & Silt, tr. f/c Sand, tr. Gravel, moist (FILL)		
4					0	
5	2	5-10	48		0	
6				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist (FILL)	0	
7					0	
8					0	
9					0	
10					0	
11				Bottom of Boring 10' bgs		
12						
13						
14						
15						
16						
18						
20						
22						
24						

Notes: possibly sample (1-2.5') for Metals / SVOCs

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

Attachment E

Analytical Summary Tables

Table 1
MPC O'Connell Building - Soil Analytical Results Summary
Elmwood Ave, Buffalo, NY

LOCATION						SB1	SB3	SB4	SB8	SB9	SB11	SB11	SB12	SB12	SB12	SB16	SB19	SB21	SB21	SB22	SB22	SB22	SB23	SB23	SB4A	SB7A	SB8A	SB8A	SB30	SB32	SB32	SB33	SB33	SB34	SB34	SB36	SB36	SB37	SB38	SB40
SAMPLING DATE	UU SCO	RU SCO	RRU SCO	CU SCO	IU SCO	10/12/21	10/12/21	10/12/21	10/12/21	10/12/21	10/12/21	10/12/21	10/12/21	10/12/21	10/12/21	10/12/21	10/12/21	10/13/21	10/13/21	10/13/21	10/13/21	10/13/21	10/13/21	10/13/21	10/13/21	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22	4/21/22
LAB SAMPLE ID						L2156729-01	L2156729-02	L2156729-03	L2156729-04	L2156729-05	L2156729-06	L2156729-06 R1	L2156729-07	L2156729-08	L2156729-08 R1	L2156981-02	L2156729-09	L2156729-10	L2156729-10 R1	L2156729-11	L2156729-11 R1	L2156981-01	L2156729-12	L2156729-12 R1	L2221374-02	L2221374-04	L2221374-06	L2221374-06 R1	L2221374-07	L2221374-08	L2221374-08 R1	L2221374-13	L2221374-09	L2221374-10	L2221374-11	L2221374-03	L2221374-03 R1	L2221374-01	L2221374-05	L2221374-12
Volatile Organic Compounds Analysis via EPA Method 8260 (mg/kg)																																							
1,2,4-Trimethylbenzene	3.6	47	52	190	380	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	ND	NT	ND	**0.13**	NT	**0.00048 J**	NT	ND
1,2-Dichloroethane	0.02	2.3	3.1	30	60	NT	ND	ND	0.068 U	0.064 U	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	0.14 U	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	ND	0.067 U	NT	ND	NT	ND
1,3,5-Trimethylbenzene	8.4	47	52	190	380	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	**0.068 J**	NT	**0.00033 J**	NT	ND
1,4-Dioxane	130	250	9.8	13	0.1	NT	ND	ND	5.4 U	5.1 U	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	12 U	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
2-Butanone	0.12	100	100	500	1000	NT	ND	**0.0034 J**	0.68 U	0.64 U	**0.0082 J**	NT	NT	**0.014**	NT	ND	ND	ND	ND	NT	NT	ND	1.4 U	**0.0094 J**	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	0.67 U	NT	ND	NT	ND
Acetone	0.05	100	100	500	1000	NT	ND	**0.035**	0.68 U	0.64 U	**0.068**	NT	NT	**0.073**	NT	NT	**0.035**	**0.008 J**	ND	NT	NT	**0.024**	**1 J**	**1.9 E**	NT	**0.0063 J**	NT	NT	NT	NT	NT	ND	NT	**0.04**	0.67 U	NT	**0.1**	NT	ND
Benzene	0.06	2.9	4.8	44	89	NT	ND	**0.0007**	ND	ND	ND	NT	NT	**0.00018 J**	NT	ND	ND	**0.00018 J**	ND	NT	NT	ND	0.073 U	**0.00045 J**	NT	ND	NT	NT	NT	NT	NT	**0.00026 J**	NT	ND	ND	NT	**0.00016 J**	NT	ND
Chloroform	0.37	10	49	350	700	NT	**0.00022 J**	**0.00016 J**	**0.014 J**	**0.017 J**	**0.00018 J**	NT	NT	**0.00019 J**	NT	**0.0002 J**	ND	ND	ND	NT	NT	ND	ND	ND	NT	ND	NT	NT	NT	NT	NT	ND	NT	**0.00017 J**	ND	NT	**0.00019 J**	NT	ND
cis-1,2-Dichloroethene	0.25	59	100	500	1000	NT	ND	**0.0002 J**	**1.8**	**0.11**	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	ND	**0.0007 J**	NT	ND	NT	NT	NT	NT	NT	ND	NT	**0.034**	ND	NT	ND	NT	ND
Cyclohexane	NV	NV	NV	NV	NV	NT	ND	ND	ND	ND	ND	NT	NT	**0.00083 J**	NT	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	ND	NT	NT	NT	NT	NT	ND	NT	**0.0011 J**	**0.036 J**	NT	ND	NT	ND
Ethylbenzene	1	30	41	390	780	NT	ND	ND	ND	ND	ND	NT	NT	**0.00021 J**	NT	ND	ND	ND	ND	NT	NT	ND	ND	**0.00026 J**	NT	ND	NT	NT	NT	NT	NT	**0.0002 J**	NT	ND	**0.016 J**	NT	**0.00015 J**	NT	ND
Isopropylbenzene	NV	NV	NV	NV	NV	NT	ND	ND	ND	ND	ND	NT	NT	**0.0017**	NT	ND	ND	ND	ND	NT	NT	ND	ND	**0.00035 J**	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	ND	NT	ND	NT	ND
Methyl Acetate	NV	NV	NV	NV	NV	NT	ND	ND	**0.1 J**	ND	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	ND	NT	ND	NT	ND
Methyl cyclohexane	NV	NV	NV	NV	NV	NT	ND	ND	**0.051 J**	ND	ND	NT	NT	**0.0016 J**	NT	ND	ND	ND	ND	NT	NT	ND	ND	**0.0042 J**	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	**0.079 J**	NT	**0.00095 J**	NT	ND
Methylene chloride	0.05	51	100	500	1000	NT	ND	ND	0.34 U	0.32 U	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	0.73 U	ND	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	0.33 U	NT	ND	NT	ND
Naphthalene	12	100	100	500	1000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	**8**	NT	ND	NT	ND
o-Xylene	NV	NV	NV	NV	NV	NT	ND	ND	ND	ND	ND	NT	NT	**0.0022**	NT	ND	ND	ND	ND	NT	NT	ND	ND	**0.0015**	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	**0.037 J**	NT	**0.0003 J**	NT	ND
p-Isopropyltoluene	NV	NV	NV	NV	NV	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	**0.1**	NT	ND	NT	ND
p/m-Xylene	NV	NV	NV	NV	NV	NT	ND	ND	ND	ND	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	ND	**0.0012 J**	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	**0.072 J**	NT	ND	NT	ND
Styrene	NV	NV	NV	NV	NV	NT	ND	**0.00072 J**	ND	ND	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	ND	NT	ND	NT	ND
Tetrachloroethene	1.3	5.5	19	150	300	NT	ND	ND	ND	ND	ND	NT	NT	**0.00029 J**	NT	ND	**0.00031 J**	ND	ND	NT	NT	ND	ND	ND	NT	ND	NT	NT	NT	NT	NT	ND	NT	**0.00062**	ND	NT	ND	NT	ND
Toluene	0.7	100	100	500	1000	NT	ND	ND	ND	ND	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	**0.12 J**	**0.0018**	NT	ND	NT	NT	NT	NT	NT	ND	NT	**0.082**	ND	NT	ND	NT	ND
trans-1,2-Dichloroethene	0.19	100	100	500	1000	NT	ND	ND	**0.18**	ND	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	0.22 U	ND	NT	ND	NT	NT	NT	NT	NT	ND	NT	**0.0009 J**	ND	NT	ND	NT	ND
Trichloroethene	0.47	10	21	200	400	NT	**0.019**	**0.00031 J**	**4.1**	**10**	**0.00021 J**	NT	NT	ND	NT	**0.00024 J**	ND	ND	ND	NT	NT	ND	ND	ND	NT	**0.04**	NT	NT	NT	NT	NT	**0.00095**	NT	**0.23**	**0.022 J**	NT	**0.00084**	NT	**0.048**
Vinyl chloride	0.02	0.21	0.9	13	27	NT	ND	ND	0.068 U	0.064 U	ND	NT	NT	ND	NT	ND	ND	ND	ND	NT	NT	ND	0.14 U	ND	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	0.067 U	NT	ND	NT	ND
Semivolatile Organics Compounds Analysis via EPA Method 8270 (mg/kg)																																							
2-Methylnaphthalene	NV	NV	NV	NV	NV	**0.03 J**	**0.34**	**0.96**	**1 J**	ND	**0.48 J**	**0.13 J**	NT	ND	**0.22 J**	NT	NT	**0.033 J**	NT	**0.044 J**	**0.21 J**	NT	NT	NT	**0.3**	**0.28**	**1.2**	NT	**0.21 J**	**0.38**	NT	NT	ND	NT	**0.077 J**	**14 E**	**14**	NT	**0.096 J**	**0.1 J**
2-Methylphenol	0.33	100	100	500	1000	ND	ND	ND	1 U	ND	0.94 U	0.94 U	NT	4.7 U	0.94 U	NT	NT	ND	NT	ND	0.91 U	NT	NT	NT	ND	ND	**0.037 J**	NT	ND	ND	NT	NT	ND	NT	ND	ND	NT	NT	ND	ND
3-Methylphenol/4-Methylphenol	0.33	34	100	500	1000	ND	ND	ND	1.5 U	ND	1.3 U	1.4 U	NT	6.7 U	1.4 U	NT	NT	ND	NT	ND	1.3 U	NT	NT	NT	ND	ND	**0.14 J**	NT	ND	**0.049 J**	NT	NT	0.33 U	NT	ND	**0.098 J**	NT	NT	0.33 U	ND
Acenaphthene	20	100	100	500	1000	**0.054 J**	ND	**1.8**	**5**	ND	**0.39 J**	ND	NT	ND	ND	NT	NT	ND	NT	ND	ND	NT	NT	NT	**0.084 J**	**0.39**	**4**	NT	**0.11 J**	**0.042 J**	NT	NT	ND	NT	ND	**12 E**	**13**	NT	**0.062 J**	ND
Acenaphthylene	100	100	100	500	1000	ND	ND	**0.055 J**	ND	ND	ND	ND	NT	ND	ND	NT	NT	ND	NT	ND	ND	NT	NT	NT	**0.098 J**	**0.052 J**	**0.27**	NT	ND	**1.8**	NT	NT	ND	NT	ND	**2.5**	NT	**0.055 J**	ND
Acetophenone	NV	NV	NV	NV	NV	ND	**0.064 J**	ND	ND	ND	ND	ND	NT	ND	ND	NT	NT	ND	NT	ND	ND	NT	NT	NT	ND	ND	ND	NT	**0.036 J**	**0.18 J**	NT	NT	ND	NT	ND	**0.12 J**	NT	NT	ND	ND
Anthracene	100	100	100	500	1000	**0.13**	ND	**1.5**	**9.1**	ND	**1.2**	**0.41 J**	NT	**1.1 J**	**0.94**	NT	NT	ND	NT	**0.041 J**	ND	NT	NT	NT	**0.36**	**0.79**	**7.8**	NT	**0.23**	**2**	NT	NT	ND	NT	ND	**7.5**	NT	**0.12 J**	ND
Benzo(a)anthracene	1	1	1	5.6	11	**0.25**	**0.064 J**	**2.7**	**10**	**0.022 J**	**1.5**	**0.75**	NT	**0.59 J**	**0.3 J**	NT	NT	**0.028 J**	NT	**0.18**	**0.46 J**	NT	NT	NT	**0.92**	**1.5**	**14 E**	**33**	**0.53**	**7.4**	NT	NT	ND	NT	**0.13**	**6.3**	NT	NT	**0.28**	**0.066 J**
Benzo(a)pyrene	1	1	1	1	1.1	**0.21**	ND	**2.4**	**9.3**	ND	**0.96**	**0.53 J**	NT	3.7 U	ND	NT	NT	ND	NT	**0.24**	**0.52 J**	NT	NT	NT	**1**	**1.5**	**14 E**	**32**	**0.48**	**6.6**	NT	NT	ND	NT	**0.097 J**	**4.2**	NT	NT	**0.4**	**0.047 J**
Benzo(b)fluoranthene	1	1	1	5.6	11	**0.25**	**0.066 J**	**3.5**	**11**	ND	**1.4**	**0.64**	NT	2.8 U	ND	NT	NT	ND	NT	**0.41**	**0.76**	NT	NT	NT	**1.5**	**1.7**	**17 E**	**37**	**0.59**	**11 E**	**11**	NT	ND	NT	**0.18**	**6.2**	NT	NT	**0.38**	**0.064 J**
Benzo(ghi)perylene	100	100	100	500	1000	**0.13 J**	**0.034 J**	**1.5**	**5.3**	ND	**0.58 J**	**0.28 J**	NT	ND	ND	NT	NT	ND	NT	**0.28**	**0.56 J**	NT	NT	NT	**0.64**	**0.83**	**7.1**	NT	**0.27**	**3.8**	NT	NT	ND	NT	**0.086J**	**1.5**	NT	NT	**0.36**	**0.033 J**
Benzo(k)fluoranthene	0.8	1	3.9	56	110	**0.095 J**	ND	**1**	**3.7**	ND	**0.38 J**	**0.23 J**	NT	2.8 U	ND	NT	NT	ND	NT	**0.12**	**0.31 J**	NT	NT	NT	**0.46**	**0.66**	**5.5**	NT	**0.2**	**2.4**	NT	NT	ND	NT	**0.045 J**	**2**	NT	NT	**0.13 J**	ND
Biphenyl	NV	NV	NV	NV	NV	ND	ND	**0.27 J**	**0.34 J**	ND	ND	ND	NT	ND	ND	NT	NT	ND	NT	ND	ND	NT	NT	NT	**0.025 J**	**0.065 J**	**0.35 J**	NT	**0.029 J**	**0.029 J**	NT	NT	ND	NT	ND	**2**	NT	NT	ND	ND
Carbazole	NV	NV	NV	NV	NV	**0.064 J**	ND	**0.7**	**4.5**	ND	ND	ND	NT	ND	ND	NT	NT	ND	NT	**0.024 J**	ND	NT	NT	NT	**0.16J**	**0.49**	**4.9**	NT	**0.09 J**	**0.1 J**	NT	NT	ND	NT	ND	**2.5**	NT	**0.069 J**	ND
Chrysene	1	1	3.9	56	110	**0.24**	**0.14**	**2.5**	**9.3**	**0.024 J**	**2**	**0.9**	NT	**1.1 J**	**0.78**	NT	NT	**0.023 J**	NT	**0.25**	**0.59**	NT	NT	NT	**1.2**	**1.4**	**12 E**	**28**	**0.61**	**6.9**	NT	NT	ND	NT	**0.31**	**6.4**	NT	NT	**0.33**	**0.064 J**
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	**0.033 J**	ND	**0.4**	**1.4**	ND	**0.16 J**	0.56 U	NT	2.8 U	0.57 U	NT	NT	ND	NT	**0.057 J**	**0.13 J**	NT	NT	NT	**0.22**	**0.21**	**2**	NT	**0.08 J**	**1**	NT	NT	ND	NT	ND	**0.6**	NT	**0.094 J**	ND
Dibenzofuran	7	14	59	350	1000	**0.031 J**	**0.034 J**	**0.96**	**3.2**	ND	**0.51 J**	**0.21 J**	NT	ND	ND	NT	NT	ND	NT	ND	ND	NT	NT	NT	**0.11 J**	**0.34**	**3.1**	NT	**0.11 J**	**0.12 J**	NT	NT	ND	NT	**0.028 J**	**10 E**	**13**	NT	**0.041 J**	**0.026 J**
Fluoranthene	100	100	100	500	1000	**0.55**	**0.073 J**	**5.9**	**25**	**0.036 J**	**3.4**	**1.4**	NT	**0.69 J**	**0.54 J**	NT	NT	**0.036 J**	NT	**0.44**	**1.1**	NT	NT	NT	**1.3**	**3.9**	**24 E**	**81**	**1.2**	**11 E**	**10**	NT	ND	NT	**0.23**	**20 E**	**26**	NT	**0.6**	**0.096 J**
Fluorene	30	100	100	500	1000	**0.048 J**	ND	**1.3**	**6.2**	ND	**1.4**	**0.7 J**	NT	**1.4 J**	**0.9 J**	NT	NT	ND	NT	ND	ND	NT	NT	NT	**0.12 J**	**0.51**	**4.5**	NT	**0.11 J**	**0.09 J**	NT	NT	ND	NT	ND	**13 E**	**15**	NT	**0.071 J**	ND
Hexachlorobenzene	0.33	0.33	1.2	6	12	ND	ND	ND	0.62 U	ND	0.56 U	0.56 U	NT	2.8 U	0.57 U	NT	NT	ND	NT	ND	0.55 U	NT	NT	NT	ND	ND	ND	NT	ND	ND	NT	NT	ND	NT	ND	ND	NT	NT	ND	ND
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	**0.14 J**	**0.028 J**	**1.8**	**6.4**	ND	**0.65 J**	**0.28 J**	NT	3.7 U	0.76 U	NT	NT	ND	NT	**0.26**	**0.55 J**	NT	NT	NT	**0.73**	**0.96**	**8.3 E**	**22**	**0.3**	**5**	NT	NT	ND	NT	**0.079 J**	**2**	NT	NT	**0.31**	**0.034 J**
Naphthalene	12	100	100	500	1000	**0.05 J**	**0.2**	**2.5**	**2.5**	ND	**0.44 J**	**0.13 J**	NT	ND	ND	NT	NT	**0.028 J**	NT	**0.034 J**	**0.17 J**	NT	NT	NT	**0.25**	**0.48**	**2.2**	NT	**0.2**	**0.46**	NT	NT	ND	NT	**0.087 J**	**15 E**	**19**	NT	**0.1 J**	**0.1 J**
Pentachlorophenol	0.8	2.4	6.7	6.7	55	ND	ND	ND	0.82 U	ND	ND	ND	NT	3.7 U	ND	NT	NT	ND	NT	ND	ND	NT	NT	NT	ND	ND	ND	NT	ND	ND	NT	NT	ND	NT	ND	ND	NT	NT	ND	ND
Phenanthrene	100	100	100	500	1000	**0.55**	**0.18**	**5**	**31**	**0.038 J**	**2**	**0.54 J**	NT	**3.9**	**2.9**	NT	NT	**0.032 J**	NT	**0.16**	**0.57**	NT	NT	NT	**0.98**	**3.4**	**22 E**	**67**	**1.1**	**0.91**	NT	NT	ND	NT	**0.2**	**24 E**	**34**	NT	**0.44**	**0.1 J**
Phenol	0.33	100	100	500	1000	ND	ND	ND	1 U	ND	0.94 U	0.94 U	NT	**0.75 J**	0.94 U	NT	NT	ND	NT	ND	0.91 U	NT	NT	NT	ND	ND	**0.066 J**	NT	ND	ND	NT	NT	ND	NT	**0.98**	NT	NT	ND	ND
Pyrene	100	100	100	500	1000	**0.47**	**0.094 J**	**4.6**	**19**	**0.03 J**	**3.3**	**1.4**	NT	**1.1 J**	**0.85**	NT	NT	**0.034 J**	NT	**0.38**	**0.92**	NT	NT	NT	**1.1**	**3**	**22 E**	**65**	**0.97**	**12 E**	**11**	NT	ND	NT	**0.23**	**17 E**	**19**	NT	**0.61**	**0.084 J**
Metals Analysis (mg/kg)																																							
Aluminum, Total	NV	NV	NV	NV	NV	**4010**	**2990**	**3240**	**3380**	**3560**	**5050**	NT	**2580**	NT	NT	NT	NT	**5340**	NT	**7990**	NT	NT	NT	NT	**1960**	**6440**	**4590**	NT	**4120**	**3780**	NT	**6670**	NT	**9390**	NT	**4430**	NT	NT	NT	**3620**
Antimony, Total	NV	NV	NV	NV	NV	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	NT	NT	ND	NT	ND	NT	NT	NT	NT	**1.58 J**	**1.66 J**	**1.15 J**	NT	**2.5 J**	**3.4 J**	NT	**1.61 J**	NT	**2.42 J**	NT	**3.76 J**	NT	NT	NT	**1.85 J**
Arsenic, Total	13	16	16	16	16	**16**	**16.1**	**8.5**	**3.07**	**6.63**	**6.53**	NT	**31.9**	NT	NT	NT	NT	**4.03**	NT	**5.73**	NT	NT	NT	NT	**9.92**	**9.32**	**7.5**	NT	**14.7**	**12.3**	NT	**75.4**	NT	**19.5**	NT	**9.22**	NT	NT	NT	**7.4**
Barium, Total	350	350	400	400	10000	**37.4**	**33.1**	**29.5**	**24.2**	**28.8**	**35.7**	NT	**83.8**	NT	NT	NT	NT	**30.1**	NT	**130**	NT	NT	NT	NT	**30.9**	**60.3**	**55.9**	NT	**39.8**	**49**	NT	**86.8**	NT	**128**	NT	**40**	NT	NT	NT	**34.8**
Beryllium, Total	7.2	14	72	590	2700	**0.261 J**	**0.396 J**	**0.309 J**	**0.136 J**	**0.188 J**	**0.251 J**	NT	**0.194 J**	NT	NT	NT	NT	**0.254 J**	NT	**1.11**	NT	NT	NT	NT	**0.221 J**	**0.376 J**	**0.292 J**	NT	**0.381 J**	**0.4 J**	NT	**0.916**	NT	**1.4**	NT	**0.518**	NT	NT	NT	**0.172 J**
Cadmium, Total	2.5	2.5	4.3	9.3	60	ND	ND	**0.14 J**	ND	ND	ND	NT	**0.158 J**	NT	NT	NT	NT	ND	NT	ND	NT	NT	NT	NT	**0.336 J**	**0.969**	**0.823 J**	NT	**0.807 J**	**0.846 J**	NT	**0.411 J**	NT	**0.733 J**	NT	**0.453 J**	NT	NT	NT	**0.768 J**
Calcium, Total	NV	NV	NV	NV	NV	**18000**	**5880**	**21700**	**128000**	**16100**	**22200**	NT	**5390**	NT	NT	NT	NT	**16100**	NT	**180000**	NT	NT	NT	NT	**108000**	**13800**	**29400**	NT	**6690**	**9530**	NT	**31400**	NT	**41500**	NT	**4880**	NT	NT	NT	**16900**
Chromium, Total	NV	NV	NV	NV	NV	**17.7**	**6.66**	**6.63**	**5.39**	**7.88**	**7.56**	NT	**29.9**	NT	NT	NT	NT	**6.64**	NT	**11.2**	NT	NT	NT	NT	**4.52**	**13.1**	**9.72**	NT	**14.7**	**8.34**	NT	**5.93**	NT	**10.8**	NT	**8.14**	NT	NT	NT	**11.8**
Cobalt, Total	NV	NV	NV	NV	NV	**10**	**5.4**	**3.88**	**2.02**	**4.52**	**3.76**	NT	**12.2**	NT	NT	NT	NT	**34.3**	NT	**2.01**	NT	NT	NT	NT	**2.98**	**6.13**	**3.28**	NT	**6.15**	**5.67**	NT	**3.48**	NT	**2.3**	NT	**4.76**	NT	NT	NT	**4.78**
Copper, Total	50	270	270	270	10000	**23.9**	**24.3**	**20.4**	**3.59**	**13.1**	**4.78**	NT	**142**	NT	NT	NT	NT	**5.91**	NT	**19.9**	NT	NT	NT	NT	**26.2**	**22.8**	**24.8**	NT	**20.1**	**49.6**	NT	**12.2**	NT	**16.9**	NT	**94.6**	NT	NT	NT	**15.2**
Iron, Total	NV	NV	NV	NV	NV	**102000**	**18900**	**16300**	**6070**	**14500**	**10200**	NT	**271000**	NT	NT	NT	NT	**9590**	NT	**17200**	NT	NT	NT	NT	**12300**	**37700**	**16300**	NT	**56600**	**36600**	NT	**16800**	NT	**33100**	NT	**19400**	NT	NT	NT	**33500**
Lead, Total	63	400	400	1000	3900	**67.9**	**25.7**	**65.2**	**7.32**	**23.3**	**11.6**	NT	**34.6**	NT	NT	NT	NT	**27.5**	NT	**38.1**	NT	NT	NT	NT	**20.4**	**122**	**75.4**	NT	**457**	**57.4**	NT	**20.4**	NT	**40.6**	NT	**46.2**	NT	NT	NT	**34**
Magnesium, Total	NV	NV	NV	NV	NV	**4140**	**698**	**2560**	**3770**	**2280**	**3200**	NT	**575**	NT	NT	NT	NT	**2440**	NT	**7350**	NT	NT	NT	NT	**2460**	**1660**	**3160**	NT	**1120**	**1780**	NT	**3090**	NT	**4370**	NT	**1020**	NT	NT	NT	**1670**
Manganese, Total	1600	2000	2000	10000	10000	**1440**	**211**	**262**	**175**	**214**	**198**	NT	**1050**	NT	NT	NT	NT	**313**	NT	**1300**	NT	NT	NT	NT	**160**	**1100**	**330**	NT	**558**	**574**	NT	**959**	NT	**1700**	NT	**250**	NT	NT	NT	**903**
Mercury, Total	0.18	0.81	0.81	2.8	5.7	ND	**0.08**	**2.39**	**0.246**	ND	ND	NT	ND	NT	NT	NT	NT	ND	NT	ND	NT	NT	NT	NT	**0.094**	**0.121**	**16.3**	NT	**0.052 J**	**0.077**	NT	ND	NT	**0.052 J**	NT	ND	NT	NT	NT	**0.103**
Nickel, Total	30	140	310	310	10000	**10.1**	**10.3**	**8.47**	**3.66**	**6.34**	**8.26**	NT	**29.6**	NT	NT	NT	NT	**6.5**	NT	**5.6**	NT	NT	NT	NT	**7.59**	**11**	**8.73**	NT	**16.3**	**10.4**	NT	**6.38**	NT	**3.77**	NT	**11.8**	NT	NT	NT	**8.49**
Potassium, Total	NV	NV	NV	NV	NV	**739**	**377**	**274**	**456**	**535**	**686**	NT	**770**	NT	NT	NT	NT	**770**	NT	**657**	NT	NT	NT	NT	**200 J**	**428**	**430**	NT	**392**	**323**	NT	**535**	NT	**632**	NT	**562**	NT	NT	NT	**403**
Selenium, Total	3.9	36	180	1500	6800	**0.575 J**	**0.986 J**	**0.777 J**	ND	**0.314 J**	**0.355 J**	NT	**0.44 J**	NT	NT	NT	NT	**0.254 J**	NT	**1.07 J**	NT	NT	NT	NT	ND	**1.06 J**	ND	NT	**0.754 J**	**0.576 J**	NT	**0.83 J**	NT	**1.33 J**	NT	**0.796 J**	NT	NT	NT	**0.58 J**
Silver, Total	2	36	180	1500	6800	ND	ND	ND	ND	ND	ND	NT	**0.264 J**	NT	NT	NT	NT	ND	NT	ND	NT	NT	NT	NT	ND	ND	ND	NT	ND	ND	NT	ND	NT	ND	NT	ND	NT	NT	NT	ND
Sodium, Total	NV	NV	NV	NV	NV	**423**	**426**	**74.1 J**	**115 J**	**92.7 J**	**109 J**	NT	**77 J**	NT	NT	NT	NT	**128 J**	NT	**396**	NT	NT	NT	NT	**67 J**	**129 J**	**101 J**	NT	**92.8 J**	**128 J**	NT	**360**	NT	**269**	NT	**206**	NT	NT	NT	**218**
Thallium, Total	NV	NV	NV	NV	NV	**3.12**	**0.528 J**	**0.515 J**	**0.533 J**	**0.358 J**	ND	NT	**3.42**	NT	NT	NT	NT	**0.544 J**	NT	**1.94**	NT	NT	NT	NT	ND	ND	ND	NT	ND	ND	NT	ND	NT	ND	NT	**1.17 J**	NT	ND	NT	ND
Vanadium, Total	NV	NV	NV	NV	NV	**17.7**	**8.26**	**9.51**	**6.81**	**8.07**	**11.3**	NT	**5.07**	NT	NT	NT	NT	**11.2**	NT	**8.9**	NT	NT	NT	NT	**8.27**	**27.9**	**12.9**	NT	**29.8**	**16.6**	NT	**10.6**	NT	**6.63**	NT	**12.7**	NT	NT	NT	**26.3**
Zinc, Total	109	2200	10000	10000	10000	**36.9**	**35.6**	**445**	**25.7**	**30.2**	**37.4**	NT	**69.8**	NT	NT	NT	NT	**19.8**	NT	**50.9**	NT	NT	NT	NT	**109**	**176**	**293**	NT	**58.1**	**65.1**	NT	**43.8**	NT	**58.3**	NT	**40.8**	NT	NT	NT	**86.5**
Polychlorinated Biphenyls (PCBs) Analysis via EPA Method 8082 (mg/kg)																																							
Aroclor 1254	0.1	1	1	1	25	NT	NT	ND	NT	NT	ND	NT	NT	ND	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND	NT	NT	NT	NT	**0.013 J**	ND
Aroclor 1268	0.1	1	1	1	25	NT	NT	**0.00694 J**	NT	NT	ND	NT	NT	ND	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND	NT	NT	NT	NT	ND	ND
PCBs, Total	0.1	1	1	1	25	NT	NT	**0.00694 J**	NT	NT	ND	NT	NT	ND	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND	NT	NT	NT	NT	**0.013 J**	ND

Notes:

1. Analytical testing performed by Alpha Analytical. Compounds detected in one or more samples are presented in this table. Refer to Appendix for the full analytical report.
2. mg/kg = parts per million.
3. ND = not detected; NT = not tested; NV = no value.
4. Analytical results compared to NYSDEC 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (SCOs); Table 375-6.8(a): Unrestricted Use SCOs and Table 375-6.8(b): Restricted Use SCOs.
5. J = Estimated value. The target analyte is below the reporting limit (RL), but above the method dectection limit (MDL).
6. R = Analytical results are from sample re-analysis.
7. U = Analytical results are below laboratory detection limits. Result is reported because laboratory detection limit is greater than applicable SCO.
8. E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
9. Shading indicates:
   - exceeds UUSCO - Unrestricted Use Soil Cleanup Objective
   - exceeds RUSCO - Restricted Use Residential Soil Cleanup Objective
   - exceeds RRUSCO - Restricted Use Restricted-Residential Soil Cleanup Objective
   - exceeds CUSCO - Resrticted Use Commercial Soil Cleanup Objective
   - exceeds IUSCO - Restricted Use Indistrial Soil Cleanup Objective
   - Laboratory detection limit is greater than SCO due to sample dilution.

Table 2
Summary of Sub Slab Vapor Analytical Testing Results
MOD-PAC CORP (O' Connell Building)
August 2020

Parameter	NYSDOH Guidline Values (ug/m3)			Sub Slab Samples	
	Matrix A Sub Slab Vapor Concentrations	Matrix B Sub Slab Vapor Concentrations	Matrix C Sub Slab Vapor Concentrations	SS-1 (072820) 7/28/2020 L2031178-01	SS-2 (072820) 7/28/2020 L2031178-02
Volatile Organics in Air (ug/m3)					
Dichlorodifluoromethane				2.45	87
Chloromethane				0.413 U	12.1 U
Freon-114				1.4 U	41.1 U
Vinyl chloride			6	0.511 U	15 U
1,3-Butadiene				0.442 U	13 U
Bromomethane				0.777 U	22.8 U
Chloroethane				0.528 U	15.5 U
Ethanol				16.3	277 U
Vinyl bromide				0.874 U	25.7 U
Acetone				33.5	156
Trichlorofluoromethane				1.81	33 U
Isopropanol				3.27	36.1 U
1,1-Dichloroethene	6			0.793 U	23.3 U
Tertiary butyl Alcohol				1.76	44.6 U
Methylene chloride		100		1.74 U	51.1 U
3-Chloropropene				0.626 U	18.4 U
Carbon disulfide				9.09	48
Freon-113				1.53 U	45.1 U
trans-1,2-Dichloroethene				0.793 U	23.3 U
1,1-Dichloroethane				0.809 U	23.8 U
Methyl tert butyl ether				0.721 U	21.2 U
2-Butanone				5.22	43.4 U
cis-1,2-Dichloroethene	6			0.793 U	23.3 U
Ethyl Acetate				1.8 U	53 U
Chloroform				18.7	28.7 U
Tetrahydrofuran				1.47 U	43.4 U
1,2-Dichloroethane				0.809 U	23.8 U
n-Hexane				64.1	7080
1,1,1-Trichloroethane		100		1.09 U	32.1 U
Benzene				19.1	24.8
Carbon tetrachloride	6			1.26 U	37 U
Cyclohexane				22.5	87.1
1,2-Dichloropropane				0.924 U	27.2 U
Bromodichloromethane				1.34 U	39.4 U
1,4-Dioxane				0.721 U	21.2 U
Trichloroethene	6			3.33	83.8
2,2,4-Trimethylpentane				0.934 U	27.5 U
Heptane				44.7	4390
cis-1,3-Dichloropropene				0.908 U	26.7 U
4-Methyl-2-pentanone				2.05 U	60.2 U
trans-1,3-Dichloropropene				0.908 U	26.7 U
1,1,2-Trichloroethane				1.09 U	32.1 U
Toluene				124	180
2-Hexanone				0.82 U	24.1 U
Dibromochloromethane				1.7 U	50.1 U
1,2-Dibromoethane				1.54 U	45.2 U
Tetrachloroethene		100		25.7	39.9 U
Chlorobenzene				0.921 U	27.1 U
Ethylbenzene				34	46.5
p/m-Xylene				170	222
Bromoform				2.07 U	60.8 U
Styrene				0.852 U	25 U
1,1,2,2-Tetrachloroethane				1.37 U	40.4 U
o-Xylene				60.8	86
4-Ethyltoluene				23.8	28.9 U
1,3,5-Trimethylbenzene				32.5	34.1
1,2,4-Trimethylbenzene				117	141
Benzyl chloride				1.04 U	30.4 U
1,3-Dichlorobenzene				1.2 U	35.4 U
1,4-Dichlorobenzene				1.2 U	35.4 U
1,2-Dichlorobenzene				1.2 U	35.4 U
1,2,4-Trichlorobenzene				1.48 U	43.6 U
Hexachlorobutadiene				2.13 U	62.7 U

DRAFT: For Discussion Purposes Only

Notes:

1. Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report in Appendix.
2. Analytical testing for VOCs via TO-15 completed by Alpha Analytical.
3. Results present in ug/m^3 or microgram per cubic meter.
4. Samples were collected during a 8-hour sample duration.
5. Sub Slab Matrix A: New York DOH Matrix A Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
6. Sub Slab Matrix B: New York DOH Matrix B Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
7. Sub Slab Matrix C: New York DOH Matrix C Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
8. Yellow shaded values represent exceedance of NYSDOH Sub-slab Vapor Matrix action levels; Grey shaded values represent reporting limit is grea than NYSDOH Sub-slab Vapor Matrix action level.
9. Qualifiers: U = Not detected at the reported detection limit for the sample.

Table 3
Soil Vapor Intrusion Investigation Decision Matrices
1803 Elmwood Avenue, Buffalo, NY

Sample ID	Parameter	Sub-slab Vapor Concentrations (ug/m^3)	Indoor Air Concentration (ug/m^3)	Recommended Action
Matrix A Trichloroethene (TCE); cis-1,2-dichloroethene (cis-DCE); 1,1-dichloroethene (1,1-DCE); Carbon Tetrachloride				
SS-1 (072820)	TCE	3.33	NT	No further action
	cis-DCE	0.793 U	NT	No further action
	1,1-DCE	0.793 U	NT	No further action
	Carbon Tetrachloride	1.26 U	NT	No further action
SS-2 (072820)	TCE	83.8	NT	Mitigate
	cis-DCE	23.3 U	NT	* Possible Action Needed
	1,1-DCE	23.3 U	NT	* Possible Action Needed
	Carbon Tetrachloride	37 U	NT	* Possible Action Needed
Matrix B Methylene Chloride (MC); 1,1,1- Trichloroethane (1,1,1-TCA); Tetrachloroethylene (PCE)				
SS-1 (072820)	MC	1.74 U	NT	No further action
	1,1,1-TCA	1.09 U	NT	No further action
	PCE	25.7	NT	No further action
SS-2 (072820)	MC	51.1 U	NT	No further action
	1,1,1-TCA	32.1 U	NT	No further action
	PCE	39.9 U	NT	No further action
Matrix C Vinyl Chloride (VC)				
SS-1 (072820)	VC	0.511 U	NT	No further action
SS-2 (072820)	VC	15 U	NT	* Possible Action Needed

1. Compoundsincluded on NYSDOH Air Matricies included in this table. For a list of all compounds, refer to analytical report.
2. Analytical testing for VOCs via TO-15 completed by Alpha Analytical.
3. Results present in ug/m3 or microgram per cubic meter.
4. Samples were collected during an 8-hour sample duration.
5. Air Guidance Values from Table 3.1 Air guideline values derived by the NYSDOH included in the "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, prepared by New York State Department of Health and updated in May 2017.
6. Orange shaded values represent Mitigation recommended.
7. U = Not detected at the reported detection limit for the sample.
8. * = possible action needed, sample was diluted with detection limits above regulatory guidance values.

Attachment F

Laboratory Analytical Reports

ANALYTICAL REPORT

Lab Number:	L2031178
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	VIM SAMPLING
Project Number:	01306
Report Date:	08/12/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: VIM SAMPLING
Project Number: 01306

Lab Number: L2031178
Report Date: 08/12/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2031178-01	SS-1(072820)	SOIL_VAPOR	MPC (O'CONNELL)	07/28/20 08:25	07/28/20
L2031178-02	SS-2(072820)	SOIL_VAPOR	MPC (O'CONNELL)	07/28/20 08:45	07/28/20

Project Name:	VIM SAMPLING	**Lab Number:**	L2031178
Project Number:	01306	**Report Date:**	08/12/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: VIM SAMPLING **Lab Number:** L2031178
Project Number: 01306 **Report Date:** 08/12/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on July 27, 2020. The canister certification results are provided as an addendum.

L2031178-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Sample Receipt

The canister ID number for the sample designated SS-1(072820) (L2031178-01) is listed on the CoC as 0488 but should be 1728.

The canister ID number for the sample designated SS-2(072820) (L2031178-02) is listed on the CoC as 0655 but should be 488.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 08/12/20

AIR

Project Name: VIM SAMPLING
Project Number: 01306
Lab Number: L2031178
Report Date: 08/12/20

SAMPLE RESULTS

Lab ID: L2031178-01
Client ID: SS-1(072820)
Sample Location: MPC (O'CONNELL)

Date Collected: 07/28/20 08:25
Date Received: 07/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/12/20 04:38
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.495	0.200	--	2.45	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	8.63	5.00	--	16.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.1	1.00	--	33.5	2.38	--		1
Trichlorofluoromethane	0.322	0.200	--	1.81	1.12	--		1
Isopropanol	1.33	0.500	--	3.27	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.581	0.500	--	1.76	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	2.92	0.200	--	9.09	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.77	0.500	--	5.22	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: VIM SAMPLING
Project Number: 01306

Lab Number: L2031178
Report Date: 08/12/20

SAMPLE RESULTS

Lab ID: L2031178-01
Client ID: SS-1(072820)
Sample Location: MPC (O'CONNELL)

Date Collected: 07/28/20 08:25
Date Received: 07/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	3.82	0.200	--	18.7	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	18.2	0.200	--	64.1	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	5.99	0.200	--	19.1	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	6.55	0.200	--	22.5	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.619	0.200	--	3.33	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	10.9	0.200	--	44.7	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	32.9	0.200	--	124	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	3.79	0.200	--	25.7	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	7.82	0.200	--	34.0	0.869	--		1

Project Name: VIM SAMPLING
Project Number: 01306
Lab Number: L2031178
Report Date: 08/12/20

SAMPLE RESULTS

Lab ID: L2031178-01
Client ID: SS-1(072820)
Sample Location: MPC (O'CONNELL)

Date Collected: 07/28/20 08:25
Date Received: 07/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	39.1	0.400	--	170	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	14.0	0.200	--	60.8	0.869	--		1
4-Ethyltoluene	4.85	0.200	--	23.8	0.983	--		1
1,3,5-Trimethylbenzene	6.62	0.200	--	32.5	0.983	--		1
1,2,4-Trimethylbenzene	23.9	0.200	--	117	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	86		60-140

Project Name: VIM SAMPLING
Project Number: 01306
Lab Number: L2031178
Report Date: 08/12/20

SAMPLE RESULTS

Lab ID: L2031178-02 D
Client ID: SS-2(072820)
Sample Location: MPC (O'CONNELL)

Date Collected: 07/28/20 08:45
Date Received: 07/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/12/20 05:14
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	17.6	5.88	--	87.0	29.1	--		29.41
Chloromethane	ND	5.88	--	ND	12.1	--		29.41
Freon-114	ND	5.88	--	ND	41.1	--		29.41
Vinyl chloride	ND	5.88	--	ND	15.0	--		29.41
1,3-Butadiene	ND	5.88	--	ND	13.0	--		29.41
Bromomethane	ND	5.88	--	ND	22.8	--		29.41
Chloroethane	ND	5.88	--	ND	15.5	--		29.41
Ethanol	ND	147	--	ND	277	--		29.41
Vinyl bromide	ND	5.88	--	ND	25.7	--		29.41
Acetone	65.8	29.4	--	156	69.8	--		29.41
Trichlorofluoromethane	ND	5.88	--	ND	33.0	--		29.41
Isopropanol	ND	14.7	--	ND	36.1	--		29.41
1,1-Dichloroethene	ND	5.88	--	ND	23.3	--		29.41
Tertiary butyl Alcohol	ND	14.7	--	ND	44.6	--		29.41
Methylene chloride	ND	14.7	--	ND	51.1	--		29.41
3-Chloropropene	ND	5.88	--	ND	18.4	--		29.41
Carbon disulfide	15.4	5.88	--	48.0	18.3	--		29.41
Freon-113	ND	5.88	--	ND	45.1	--		29.41
trans-1,2-Dichloroethene	ND	5.88	--	ND	23.3	--		29.41
1,1-Dichloroethane	ND	5.88	--	ND	23.8	--		29.41
Methyl tert butyl ether	ND	5.88	--	ND	21.2	--		29.41
2-Butanone	ND	14.7	--	ND	43.4	--		29.41
cis-1,2-Dichloroethene	ND	5.88	--	ND	23.3	--		29.41

Project Name: VIM SAMPLING
Project Number: 01306
Lab Number: L2031178
Report Date: 08/12/20

SAMPLE RESULTS

Lab ID: L2031178-02 D
Client ID: SS-2(072820)
Sample Location: MPC (O'CONNELL)

Date Collected: 07/28/20 08:45
Date Received: 07/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	14.7	--	ND	53.0	--		29.41
Chloroform	ND	5.88	--	ND	28.7	--		29.41
Tetrahydrofuran	ND	14.7	--	ND	43.4	--		29.41
1,2-Dichloroethane	ND	5.88	--	ND	23.8	--		29.41
n-Hexane	2010	5.88	--	7080	20.7	--		29.41
1,1,1-Trichloroethane	ND	5.88	--	ND	32.1	--		29.41
Benzene	7.76	5.88	--	24.8	18.8	--		29.41
Carbon tetrachloride	ND	5.88	--	ND	37.0	--		29.41
Cyclohexane	25.3	5.88	--	87.1	20.2	--		29.41
1,2-Dichloropropane	ND	5.88	--	ND	27.2	--		29.41
Bromodichloromethane	ND	5.88	--	ND	39.4	--		29.41
1,4-Dioxane	ND	5.88	--	ND	21.2	--		29.41
Trichloroethene	15.6	5.88	--	83.8	31.6	--		29.41
2,2,4-Trimethylpentane	ND	5.88	--	ND	27.5	--		29.41
Heptane	1070	5.88	--	4390	24.1	--		29.41
cis-1,3-Dichloropropene	ND	5.88	--	ND	26.7	--		29.41
4-Methyl-2-pentanone	ND	14.7	--	ND	60.2	--		29.41
trans-1,3-Dichloropropene	ND	5.88	--	ND	26.7	--		29.41
1,1,2-Trichloroethane	ND	5.88	--	ND	32.1	--		29.41
Toluene	47.8	5.88	--	180	22.2	--		29.41
2-Hexanone	ND	5.88	--	ND	24.1	--		29.41
Dibromochloromethane	ND	5.88	--	ND	50.1	--		29.41
1,2-Dibromoethane	ND	5.88	--	ND	45.2	--		29.41
Tetrachloroethene	ND	5.88	--	ND	39.9	--		29.41
Chlorobenzene	ND	5.88	--	ND	27.1	--		29.41
Ethylbenzene	10.7	5.88	--	46.5	25.5	--		29.41

Project Name: VIM SAMPLING
Project Number: 01306
Lab Number: L2031178
Report Date: 08/12/20

SAMPLE RESULTS

Lab ID: L2031178-02 D
Client ID: SS-2(072820)
Sample Location: MPC (O'CONNELL)

Date Collected: 07/28/20 08:45
Date Received: 07/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	51.1	11.8	--	222	51.3	--		29.41
Bromoform	ND	5.88	--	ND	60.8	--		29.41
Styrene	ND	5.88	--	ND	25.0	--		29.41
1,1,2,2-Tetrachloroethane	ND	5.88	--	ND	40.4	--		29.41
o-Xylene	19.8	5.88	--	86.0	25.5	--		29.41
4-Ethyltoluene	ND	5.88	--	ND	28.9	--		29.41
1,3,5-Trimethylbenzene	6.94	5.88	--	34.1	28.9	--		29.41
1,2,4-Trimethylbenzene	28.6	5.88	--	141	28.9	--		29.41
Benzyl chloride	ND	5.88	--	ND	30.4	--		29.41
1,3-Dichlorobenzene	ND	5.88	--	ND	35.4	--		29.41
1,4-Dichlorobenzene	ND	5.88	--	ND	35.4	--		29.41
1,2-Dichlorobenzene	ND	5.88	--	ND	35.4	--		29.41
1,2,4-Trichlorobenzene	ND	5.88	--	ND	43.6	--		29.41
Hexachlorobutadiene	ND	5.88	--	ND	62.7	--		29.41

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	87		60-140

Project Name: VIM SAMPLING
Project Number: 01306
Lab Number: L2031178
Report Date: 08/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/11/20 16:02

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1397760-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: VIM SAMPLING
Project Number: 01306
Lab Number: L2031178
Report Date: 08/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/11/20 16:02

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1397760-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: VIM SAMPLING
Project Number: 01306
Lab Number: L2031178
Report Date: 08/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/11/20 16:02

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1397760-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: VIM SAMPLING

Project Number: 01306

Lab Number: L2031178

Report Date: 08/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1397760-3								
Dichlorodifluoromethane	111		-		70-130	-		
Chloromethane	92		-		70-130	-		
Freon-114	106		-		70-130	-		
Vinyl chloride	100		-		70-130	-		
1,3-Butadiene	99		-		70-130	-		
Bromomethane	104		-		70-130	-		
Chloroethane	97		-		70-130	-		
Ethanol	100		-		40-160	-		
Vinyl bromide	101		-		70-130	-		
Acetone	80		-		40-160	-		
Trichlorofluoromethane	118		-		70-130	-		
Isopropanol	77		-		40-160	-		
1,1-Dichloroethene	108		-		70-130	-		
Tertiary butyl Alcohol	85		-		70-130	-		
Methylene chloride	103		-		70-130	-		
3-Chloropropene	103		-		70-130	-		
Carbon disulfide	99		-		70-130	-		
Freon-113	114		-		70-130	-		
trans-1,2-Dichloroethene	104		-		70-130	-		
1,1-Dichloroethane	107		-		70-130	-		
Methyl tert butyl ether	95		-		70-130	-		
2-Butanone	118		-		70-130	-		
cis-1,2-Dichloroethene	116		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: VIM SAMPLING
Project Number: 01306

Lab Number: L2031178
Report Date: 08/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1397760-3								
Ethyl Acetate	104		-		70-130	-		
Chloroform	123		-		70-130	-		
Tetrahydrofuran	103		-		70-130	-		
1,2-Dichloroethane	126		-		70-130	-		
n-Hexane	100		-		70-130	-		
1,1,1-Trichloroethane	120		-		70-130	-		
Benzene	101		-		70-130	-		
Carbon tetrachloride	124		-		70-130	-		
Cyclohexane	101		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	115		-		70-130	-		
1,4-Dioxane	104		-		70-130	-		
Trichloroethene	110		-		70-130	-		
2,2,4-Trimethylpentane	103		-		70-130	-		
Heptane	105		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	106		-		70-130	-		
trans-1,3-Dichloropropene	91		-		70-130	-		
1,1,2-Trichloroethane	112		-		70-130	-		
Toluene	106		-		70-130	-		
2-Hexanone	104		-		70-130	-		
Dibromochloromethane	122		-		70-130	-		
1,2-Dibromoethane	112		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: VIM SAMPLING
Project Number: 01306

Lab Number: L2031178
Report Date: 08/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1397760-3								
Tetrachloroethene	111		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Ethylbenzene	111		-		70-130	-		
p/m-Xylene	112		-		70-130	-		
Bromoform	116		-		70-130	-		
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	111		-		70-130	-		
o-Xylene	112		-		70-130	-		
4-Ethyltoluene	108		-		70-130	-		
1,3,5-Trimethylbenzene	121		-		70-130	-		
1,2,4-Trimethylbenzene	112		-		70-130	-		
Benzyl chloride	97		-		70-130	-		
1,3-Dichlorobenzene	108		-		70-130	-		
1,4-Dichlorobenzene	105		-		70-130	-		
1,2-Dichlorobenzene	109		-		70-130	-		
1,2,4-Trichlorobenzene	92		-		70-130	-		
Hexachlorobutadiene	110		-		70-130	-		

Project Name: VIM SAMPLING

Lab Number: L2031178

Project Number: 01306

Report Date: 08/12/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2031178-01	SS-1(072820)	01589	Flow 1	07/27/20	326864		-	-	-	Pass	144	160	11
L2031178-01	SS-1(072820)	1728	2.7L Can	07/27/20	326864	L2029532-02	Pass	-29.5	-2.5	-	-	-	-
L2031178-02	SS-2(072820)	0649	Flow 1	07/27/20	326864		-	-	-	Pass	144	154	7
L2031178-02	SS-2(072820)	488	2.7L Can	07/27/20	326864	L2029532-02	Pass	-29.3	-2.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2029532
Report Date: 08/12/20

Air Canister Certification Results

Lab ID: L2029532-02
Client ID: CAN 2187 SHELF 14
Sample Location:

Date Collected: 07/14/20 09:00
Date Received: 07/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/17/20 17:52
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2029532
Report Date: 08/12/20

Air Canister Certification Results

Lab ID: L2029532-02
Client ID: CAN 2187 SHELF 14
Sample Location:

Date Collected: 07/14/20 09:00
Date Received: 07/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2029532
Report Date: 08/12/20

Air Canister Certification Results

Lab ID: L2029532-02
Client ID: CAN 2187 SHELF 14
Sample Location:

Date Collected: 07/14/20 09:00
Date Received: 07/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2029532
Report Date: 08/12/20

Air Canister Certification Results

Lab ID: L2029532-02
Client ID: CAN 2187 SHELF 14
Sample Location:

Date Collected: 07/14/20 09:00
Date Received: 07/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2029532
Report Date: 08/12/20

Air Canister Certification Results

Lab ID: L2029532-02
Client ID: CAN 2187 SHELF 14
Sample Location:

Date Collected: 07/14/20 09:00
Date Received: 07/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2029532
Report Date: 08/12/20

Air Canister Certification Results

Lab ID: L2029532-02
Client ID: CAN 2187 SHELF 14
Sample Location:

Date Collected: 07/14/20 09:00
Date Received: 07/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/17/20 17:52
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2029532
Report Date: 08/12/20

Air Canister Certification Results

Lab ID: L2029532-02
Client ID: CAN 2187 SHELF 14
Sample Location:

Date Collected: 07/14/20 09:00
Date Received: 07/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2029532

Project Number: CANISTER QC BAT **Report Date:** 08/12/20

Air Canister Certification Results

Lab ID: L2029532-02
Client ID: CAN 2187 SHELF 14
Sample Location:

Date Collected: 07/14/20 09:00
Date Received: 07/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140

Project Name: VIM SAMPLING
Project Number: 01306

Lab Number: L2031178
Report Date: 08/12/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2031178-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2031178-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	VIM SAMPLING	**Lab Number:**	L2031178
Project Number:	01306	**Report Date:**	08/12/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	VIM SAMPLING	**Lab Number:**	L2031178
Project Number:	01306	**Report Date:**	08/12/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration. (DoD and NYSDEC Part 375 PFAS only.)

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: Data Usability Report

Project Name:	VIM SAMPLING	**Lab Number:**	L2031178
Project Number:	01306	**Report Date:**	08/12/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/29/20

ALPHA Job #: L2031178

Client Information

Client: Environmental Advantage Inc.
Address: 3636 N. Buffalo Rd
Orchard Park NY 14127
Phone: 716-667-3430
Fax: 716-667-3156
Email: mhanna@envadvantage.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: VIM Sampling
Project Location: MPC (O'Connell)
Project #: 01306
Project Manager: Mark Hanna
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #: 01306

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments: Additionally email results to eletzoid@envadvantage.com

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subset non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
31178-01	SS-1(072820)	7/28/2020	8:05am	8:25am	-29.3"	-1.30"	SV	EB	2.7L	0488	01589	X					23ppm
02	SS-2(072820)	7/28/2020	8:20am	8:45am	-32.3"	-1.20"	SV	EB	2.7L	06550649		X					160ppm

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: CS

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	7/28/2020 1455		7/28 14:07
	7/28 1522		7/29/20 0005
7/29/20 0400		T. Handschuh	7/29/20 0420

T. Handschuh 7/29/20 0520

7/29/20 0500

Form No: 101-01 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2031763
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	MPC (O'CONNELL) ENV. INVEST.
Project Number:	01306
Report Date:	08/17/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: MPC (O'CONNELL) ENV. INVEST.
Project Number: 01306

Lab Number: L2031763
Report Date: 08/17/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2031763-01	CONCRETE-001	CONCRETE	MPC O'CONNELL BUILDING	07/28/20 13:00	08/06/20

Project Name:	MPC (O'CONNELL) ENV. INVEST.	**Lab Number:**	L2031763
Project Number:	01306	**Report Date:**	08/17/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	MPC (O'CONNELL) ENV. INVEST.	**Lab Number:**	L2031763
Project Number:	01306	**Report Date:**	08/17/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 08/17/20

ORGANICS

PCBS

Project Name: MPC (O'CONNELL) ENV. INVEST. **Lab Number:** L2031763

Project Number: 01306 **Report Date:** 08/17/20

SAMPLE RESULTS

Lab ID: L2031763-01
Client ID: CONCRETE-001
Sample Location: MPC O'CONNELL BUILDING

Date Collected: 07/28/20 13:00
Date Received: 08/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 08/08/20 14:00
Analyst: HT
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 08/07/20 05:12
Cleanup Method: EPA 3665A
Cleanup Date: 08/08/20
Cleanup Method: EPA 3660B
Cleanup Date: 08/08/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	94.8	8.42	1	A
Aroclor 1221	ND		ug/kg	94.8	9.50	1	A
Aroclor 1232	ND		ug/kg	94.8	20.1	1	A
Aroclor 1242	ND		ug/kg	94.8	12.8	1	A
Aroclor 1248	917		ug/kg	94.8	14.2	1	B
Aroclor 1254	714		ug/kg	94.8	10.4	1	B
Aroclor 1260	122		ug/kg	94.8	17.5	1	A
Aroclor 1262	ND		ug/kg	94.8	12.0	1	A
Aroclor 1268	ND		ug/kg	94.8	9.82	1	A
PCBs, Total	1750		ug/kg	94.8	8.42	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: MPC (O'CONNELL) ENV. INVEST.
Project Number: 01306
Lab Number: L2031763
Report Date: 08/17/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/08/20 13:39
Analyst: HT

Extraction Method: EPA 3540C
Extraction Date: 08/07/20 05:12
Cleanup Method: EPA 3665A
Cleanup Date: 08/08/20
Cleanup Method: EPA 3660B
Cleanup Date: 08/08/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1396589-1						
Aroclor 1016	ND		ug/kg	93.1	8.27	A
Aroclor 1221	ND		ug/kg	93.1	9.33	A
Aroclor 1232	ND		ug/kg	93.1	19.7	A
Aroclor 1242	ND		ug/kg	93.1	12.6	A
Aroclor 1254	ND		ug/kg	93.1	10.2	A
Aroclor 1260	ND		ug/kg	93.1	17.2	A
Aroclor 1262	ND		ug/kg	93.1	11.8	A
Aroclor 1268	ND		ug/kg	93.1	9.65	A
PCBs, Total	ND		ug/kg	93.1	8.27	A
Aroclor 1248	ND		ug/kg	93.1	14.0	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MPC (O'CONNELL) ENV. INVEST.

Project Number: 01306

Lab Number: L2031763

Report Date: 08/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1396589-2 WG1396589-3									
Aroclor 1016	56		56		40-140	0		50	A
Aroclor 1260	51		51		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		70		30-150	A
Decachlorobiphenyl	70		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		82		30-150	B
Decachlorobiphenyl	89		84		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: MPC (O'CONNELL) ENV. INVEST.
Project Number: 01306
Lab Number: L2031763
Report Date: 08/17/20

SAMPLE RESULTS

Lab ID: L2031763-01
Client ID: CONCRETE-001
Sample Location: MPC O'CONNELL BUILDING
Sample Depth:
Matrix: Concrete
Date Collected: 07/28/20 13:00
Date Received: 08/06/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.6		%	0.100	NA	1	-	08/07/20 09:41	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: MPC (O'CONNELL) ENV. INVEST.

Project Number: 01306

Lab Number: L2031763

Report Date: 08/17/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1396709-1 QC Sample: L2029000-03 Client ID: DUP Sample						
Solids, Total	87.6	87.3	%	0		20

Project Name: MPC (O'CONNELL) ENV. INVEST.
Project Number: 01306

Lab Number: L2031763
Report Date: 08/17/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2031763-01A	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		TS(7),NYTCL-8082-CNCRT(14)

*Values in parentheses indicate holding time in days

Project Name:	MPC (O'CONNELL) ENV. INVEST.	**Lab Number:**	L2031763
Project Number:	01306	**Report Date:**	08/17/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	MPC (O'CONNELL) ENV. INVEST.	**Lab Number:**	L2031763
Project Number:	01306	**Report Date:**	08/17/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration. (DoD and NYSDEC Part 375 PFAS only.)

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with 'J' Qualifiers

Project Name:	MPC (O'CONNELL) ENV. INVEST.	**Lab Number:**	L2031763
Project Number:	01306	**Report Date:**	08/17/20

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	MPC (O'CONNELL) ENV. INVEST.	**Lab Number:**	L2031763
Project Number:	01306	**Report Date:**	08/17/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 08/07/2020

ALPHA Job #: L2031763

Client Information

Client: Environmental Advantage Inc
Address: 3636 N. Buffalo RD.
orchard park, NY 14127
Phone: 716-667-3130
Fax: 716-667-3156
Email: mhanna@envadvantage.com

Project Information

Project Name: MPC (O'Connell) Env. Investigation
Project Location: MPC O'connell Building
Project # 01306
(Use Project name as Project #) ☐
Project Manager: Mark Hanna + Eric Betzold
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Additionally, email results to ebetzold@envadvantage.com

Please specify Metals or TAL.

ANALYSIS

T. PCBs

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	T. PCBs	Sample Specific Comments	Total Bottle
31763-01	Concrete-001	7/28/2020	1:00pm	Solid	EB	X		1

Container Type: A
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] AHL	8/6/2020 1235pm	[signature] AHL	8/06/20 12:35
[signature] AHL	8/06/20 13:40	[signature]	8/7/20 01:05

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2156729
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	CY2021 MPC PHASE II ESA
Project Number:	01306
Report Date:	10/29/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306

Lab Number: L2156729
Report Date: 10/29/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2156729-01	SB1 (0.5-1.5')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/12/21 08:40	10/15/21
L2156729-02	SB3 (0.5-1.5')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/12/21 09:10	10/15/21
L2156729-03	SB4 (0.5-4')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/12/21 09:20	10/15/21
L2156729-04	SB8 (5-7')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/12/21 10:30	10/15/21
L2156729-05	SB9 (0.5-3')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/12/21 11:00	10/15/21
L2156729-06	SB11 (2.5-5')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/12/21 11:45	10/15/21
L2156729-07	SB12 (2.5-3.5')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/12/21 12:40	10/15/21
L2156729-08	SB12 (3.5-4.5')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/12/21 12:40	10/15/21
L2156729-09	SB19 (0.5-3')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/13/21 09:10	10/15/21
L2156729-10	SB21 (1-1.5')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/13/21 10:05	10/15/21
L2156729-11	SB22 (0.5-3')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/13/21 12:50	10/15/21
L2156729-12	SB23 (4.5-5')	SOIL	1803 ELMWOOD AVE., BUFFALO, NY	10/13/21 13:25	10/15/21

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156729
Project Number:	01306	**Report Date:**	10/29/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729
Project Number: 01306 **Report Date:** 10/29/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L2156729-08: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (153%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2156729-10: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (44%) was below the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (37%). The results of both analyses are reported; however, since the IS response was below method criteria (but not <20% of applicable calibration standard area counts), all associated compounds are considered to have a potentially high bias.

L2156729-12: The methanol vial was analyzed in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to sample non-homogeneity.

L2156729-12D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Semivolatile Organics

L2156729-06RE\D, -06D, -08D, -08RE\D, and -11RE\D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2156729-06D: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (22%), nitrobenzene-d5 (18%) and 2-fluorobiphenyl (23%); however, the criteria were achieved upon re-extraction

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156729
Project Number:	01306	**Report Date:**	10/29/21

Case Narrative (continued)

outside of holding time. The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

L2156729-08D: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (16%), nitrobenzene-d5 (22%) and 2-fluorobiphenyl (23%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

L2156729-08RE\D: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L2156729-11: The surrogate recoveries were outside the acceptance criteria for nitrobenzene-d5 (21%), 2-fluorobiphenyl (22%) and 4-terphenyl-d14 (16%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

Total Metals

L2156729-01 through -07, -10 and -11: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 10/29/21

ORGANICS

VOLATILES

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-02
Client ID: SB3 (0.5-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/12/21 09:10
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 18:09
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.22	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	19		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-02 Date Collected: 10/12/21 09:10

Client ID: SB3 (0.5-1.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	88	39.	1
Freon-113	ND		ug/kg	4.4	0.77	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	99		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-03 Date Collected: 10/12/21 09:20

Client ID: SB4 (0.5-4') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 10/24/21 18:34

Analyst: JC

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.16	J	ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	0.70		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	0.31	J	ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-03 Date Collected: 10/12/21 09:20

Client ID: SB4 (0.5-4') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	0.20	J	ug/kg	1.1	0.20	1
Styrene	0.72	J	ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	35		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	3.4	J	ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
Methyl Acetate	ND		ug/kg	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.61	1
1,4-Dioxane	ND		ug/kg	90	40.	1
Freon-113	ND		ug/kg	4.5	0.78	1
Methyl cyclohexane	ND		ug/kg	4.5	0.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-04 Date Collected: 10/12/21 10:30
Client ID: SB8 (5-7') Date Received: 10/15/21
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 20:39
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	340	150	1
1,1-Dichloroethane	ND		ug/kg	68	9.8	1
Chloroform	14	J	ug/kg	100	9.4	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.4	1
Dibromochloromethane	ND		ug/kg	68	9.4	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	ND		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	17.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	ND		ug/kg	34	11.	1
Toluene	ND		ug/kg	68	37.	1
Ethylbenzene	ND		ug/kg	68	9.5	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	39.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	30.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	180		ug/kg	100	9.2	1
Trichloroethene	4100		ug/kg	34	9.2	1
1,2-Dichlorobenzene	ND		ug/kg	140	9.7	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-04 Date Collected: 10/12/21 10:30

Client ID: SB8 (5-7') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	ND		ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
cis-1,2-Dichloroethene	1800		ug/kg	68	12.	1
Styrene	ND		ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	320	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
4-Methyl-2-pentanone	ND		ug/kg	680	86.	1
2-Hexanone	ND		ug/kg	680	80.	1
Bromochloromethane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	67.	1
Isopropylbenzene	ND		ug/kg	68	7.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	18.	1
Methyl Acetate	100	J	ug/kg	270	64.	1
Cyclohexane	ND		ug/kg	680	37.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
Freon-113	ND		ug/kg	270	47.	1
Methyl cyclohexane	51	J	ug/kg	270	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	94		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-05 Date Collected: 10/12/21 11:00
Client ID: SB9 (0.5-3') Date Received: 10/15/21
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 21:04
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	320	150	1
1,1-Dichloroethane	ND		ug/kg	64	9.2	1
Chloroform	17	J	ug/kg	96	8.9	1
Carbon tetrachloride	ND		ug/kg	64	15.	1
1,2-Dichloropropane	ND		ug/kg	64	8.0	1
Dibromochloromethane	ND		ug/kg	64	8.9	1
1,1,2-Trichloroethane	ND		ug/kg	64	17.	1
Tetrachloroethene	ND		ug/kg	32	12.	1
Chlorobenzene	ND		ug/kg	32	8.1	1
Trichlorofluoromethane	ND		ug/kg	260	44.	1
1,2-Dichloroethane	ND		ug/kg	64	16.	1
1,1,1-Trichloroethane	ND		ug/kg	32	11.	1
Bromodichloromethane	ND		ug/kg	32	7.0	1
trans-1,3-Dichloropropene	ND		ug/kg	64	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	32	10.	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	32	10.	1
Benzene	ND		ug/kg	32	10.	1
Toluene	ND		ug/kg	64	35.	1
Ethylbenzene	ND		ug/kg	64	9.0	1
Chloromethane	ND		ug/kg	260	59.	1
Bromomethane	ND		ug/kg	130	37.	1
Vinyl chloride	ND		ug/kg	64	21.	1
Chloroethane	ND		ug/kg	130	29.	1
1,1-Dichloroethene	ND		ug/kg	64	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	96	8.7	1
Trichloroethene	10000		ug/kg	32	8.7	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.2	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-05 Date Collected: 10/12/21 11:00

Client ID: SB9 (0.5-3') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	130	9.4	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	36.	1
o-Xylene	ND		ug/kg	64	18.	1
cis-1,2-Dichloroethene	110		ug/kg	64	11.	1
Styrene	ND		ug/kg	64	12.	1
Dichlorodifluoromethane	ND		ug/kg	640	58.	1
Acetone	ND		ug/kg	640	310	1
Carbon disulfide	ND		ug/kg	640	290	1
2-Butanone	ND		ug/kg	640	140	1
4-Methyl-2-pentanone	ND		ug/kg	640	82.	1
2-Hexanone	ND		ug/kg	640	75.	1
Bromochloromethane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	64	18.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	64.	1
Isopropylbenzene	ND		ug/kg	64	7.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	17.	1
Methyl Acetate	ND		ug/kg	260	61.	1
Cyclohexane	ND		ug/kg	640	35.	1
1,4-Dioxane	ND		ug/kg	5100	2200	1
Freon-113	ND		ug/kg	260	44.	1
Methyl cyclohexane	ND		ug/kg	260	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	93		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06
Client ID: SB11 (2.5-5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 11:45
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 18:59
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.18	J	ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	0.21	J	ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06 Date Collected: 10/12/21 11:45

Client ID: SB11 (2.5-5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.23	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	68		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	8.2	J	ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.31	1
Methyl Acetate	ND		ug/kg	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.61	1
1,4-Dioxane	ND		ug/kg	90	40.	1
Freon-113	ND		ug/kg	4.5	0.78	1
Methyl cyclohexane	ND		ug/kg	4.5	0.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	97		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08 Date Collected: 10/12/21 12:40
Client ID: SB12 (3.5-4.5') Date Received: 10/15/21
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 19:49
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.19	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	0.29	J	ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	0.18	J	ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	0.21	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08 Date Collected: 10/12/21 12:40

Client ID: SB12 (3.5-4.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	2.2		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	73		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	14		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	1.7		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
Methyl Acetate	ND		ug/kg	4.3	1.0	1
Cyclohexane	0.83	J	ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	86	38.	1
Freon-113	ND		ug/kg	4.3	0.75	1
Methyl cyclohexane	1.6	J	ug/kg	4.3	0.65	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	**153**	Q	70-130
Dibromofluoromethane	98		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-09 Date Collected: 10/13/21 09:10

Client ID: SB19 (0.5-3') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 10/27/21 00:39

Analyst: JC

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	0.31	J	ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-09 Date Collected: 10/13/21 09:10

Client ID: SB19 (0.5-3') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	8.0	J	ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	89	39.	1
Freon-113	ND		ug/kg	4.4	0.77	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	99		70-130

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-10
Client ID: SB21 (1-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/13/21 10:05
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/21 01:05
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	0.18	J	ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-10 Date Collected: 10/13/21 10:05

Client ID: SB21 (1-1.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	10	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-10 R
Client ID: SB21 (1-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/13/21 10:05
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/21 09:52
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.93	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.93	0.12	1
Dibromochloromethane	ND		ug/kg	0.93	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.15	1
Benzene	ND		ug/kg	0.47	0.15	1
Toluene	ND		ug/kg	0.93	0.51	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.87	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-10 R Date Collected: 10/13/21 10:05
Client ID: SB21 (1-1.5') Date Received: 10/15/21
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.93	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.16	1
Styrene	ND		ug/kg	0.93	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.85	1
Acetone	ND		ug/kg	9.3	4.5	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	1.2	1
2-Hexanone	ND		ug/kg	9.3	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.25	1
Methyl Acetate	ND		ug/kg	3.7	0.89	1
Cyclohexane	ND		ug/kg	9.3	0.51	1
1,4-Dioxane	ND		ug/kg	75	33.	1
Freon-113	ND		ug/kg	3.7	0.65	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	105		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-12 Date Collected: 10/13/21 13:25
Client ID: SB23 (4.5-5') Date Received: 10/15/21
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/21 21:06
Analyst: AJK
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	0.45	J	ug/kg	0.57	0.19	1
Toluene	1.8		ug/kg	1.1	0.62	1
Ethylbenzene	0.26	J	ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-12 Date Collected: 10/13/21 13:25

Client ID: SB23 (4.5-5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	1.2	J	ug/kg	2.3	0.64	1
o-Xylene	1.5		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	0.70	J	ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	1900	E	ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	9.4	J	ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	0.35	J	ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
1,4-Dioxane	ND		ug/kg	91	40.	1
Freon-113	ND		ug/kg	4.6	0.79	1
Methyl cyclohexane	4.2	J	ug/kg	4.6	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	103		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-12 D
Client ID: SB23 (4.5-5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/13/21 13:25
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/21 01:31
Analyst: JC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	730	330	2
1,1-Dichloroethane	ND		ug/kg	140	21.	2
Chloroform	ND		ug/kg	220	20.	2
Carbon tetrachloride	ND		ug/kg	140	34.	2
1,2-Dichloropropane	ND		ug/kg	140	18.	2
Dibromochloromethane	ND		ug/kg	140	20.	2
1,1,2-Trichloroethane	ND		ug/kg	140	39.	2
Tetrachloroethene	ND		ug/kg	73	28.	2
Chlorobenzene	ND		ug/kg	73	18.	2
Trichlorofluoromethane	ND		ug/kg	580	100	2
1,2-Dichloroethane	ND		ug/kg	140	37.	2
1,1,1-Trichloroethane	ND		ug/kg	73	24.	2
Bromodichloromethane	ND		ug/kg	73	16.	2
trans-1,3-Dichloropropene	ND		ug/kg	140	40.	2
cis-1,3-Dichloropropene	ND		ug/kg	73	23.	2
Bromoform	ND		ug/kg	580	36.	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	73	24.	2
Benzene	ND		ug/kg	73	24.	2
Toluene	120	J	ug/kg	140	79.	2
Ethylbenzene	ND		ug/kg	140	20.	2
Chloromethane	ND		ug/kg	580	140	2
Bromomethane	ND		ug/kg	290	85.	2
Vinyl chloride	ND		ug/kg	140	49.	2
Chloroethane	ND		ug/kg	290	66.	2
1,1-Dichloroethene	ND		ug/kg	140	35.	2
trans-1,2-Dichloroethene	ND		ug/kg	220	20.	2
Trichloroethene	ND		ug/kg	73	20.	2
1,2-Dichlorobenzene	ND		ug/kg	290	21.	2

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-12 D Date Collected: 10/13/21 13:25

Client ID: SB23 (4.5-5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	290	22.	2
1,4-Dichlorobenzene	ND		ug/kg	290	25.	2
Methyl tert butyl ether	ND		ug/kg	290	29.	2
p/m-Xylene	ND		ug/kg	290	82.	2
o-Xylene	ND		ug/kg	140	42.	2
cis-1,2-Dichloroethene	ND		ug/kg	140	25.	2
Styrene	ND		ug/kg	140	28.	2
Dichlorodifluoromethane	ND		ug/kg	1400	130	2
Acetone	1000	J	ug/kg	1400	700	2
Carbon disulfide	ND		ug/kg	1400	660	2
2-Butanone	ND		ug/kg	1400	320	2
4-Methyl-2-pentanone	ND		ug/kg	1400	190	2
2-Hexanone	ND		ug/kg	1400	170	2
Bromochloromethane	ND		ug/kg	290	30.	2
1,2-Dibromoethane	ND		ug/kg	140	41.	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	440	140	2
Isopropylbenzene	ND		ug/kg	140	16.	2
1,2,3-Trichlorobenzene	ND		ug/kg	290	47.	2
1,2,4-Trichlorobenzene	ND		ug/kg	290	40.	2
Methyl Acetate	ND		ug/kg	580	140	2
Cyclohexane	ND		ug/kg	1400	79.	2
1,4-Dioxane	ND		ug/kg	12000	5100	2
Freon-113	ND		ug/kg	580	100	2
Methyl cyclohexane	ND		ug/kg	580	88.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	103		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:45
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,06,08 Batch: WG1562619-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.17	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:45
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,06,08 Batch: WG1562619-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	0.68	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	1.8	J	ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:45
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,06,08 Batch: WG1562619-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	94		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:45
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG1562621-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	8.7	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:45
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG1562621-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	34	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
Methyl Acetate	91	J	ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:45
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG1562621-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	94		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/21 09:26
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1563726-10					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.19	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.74	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/21 09:26
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1563726-10					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	2.6	J	ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/21 09:26
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1563726-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	100		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 16:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1563726-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.74	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 16:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1563726-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 16:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1563726-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	100		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 16:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1564309-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	37	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 16:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1564309-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 16:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1564309-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	100		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/21 20:39
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1564318-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.28	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/21 20:39
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1564318-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	0.70	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/21 20:39
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1564318-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,06,08 Batch: WG1562619-3 WG1562619-4								
Methylene chloride	89		89		70-130	0		30
1,1-Dichloroethane	97		95		70-130	2		30
Chloroform	94		93		70-130	1		30
Carbon tetrachloride	107		105		70-130	2		30
1,2-Dichloropropane	95		94		70-130	1		30
Dibromochloromethane	97		97		70-130	0		30
1,1,2-Trichloroethane	97		97		70-130	0		30
Tetrachloroethene	110		108		70-130	2		30
Chlorobenzene	104		104		70-130	0		30
Trichlorofluoromethane	102		99		70-139	3		30
1,2-Dichloroethane	95		94		70-130	1		30
1,1,1-Trichloroethane	106		104		70-130	2		30
Bromodichloromethane	103		101		70-130	2		30
trans-1,3-Dichloropropene	109		108		70-130	1		30
cis-1,3-Dichloropropene	104		103		70-130	1		30
Bromoform	100		100		70-130	0		30
1,1,2,2-Tetrachloroethane	98		99		70-130	1		30
Benzene	98		97		70-130	1		30
Toluene	102		102		70-130	0		30
Ethylbenzene	105		104		70-130	1		30
Chloromethane	96		96		52-130	0		30
Bromomethane	99		95		57-147	4		30
Vinyl chloride	101		98		67-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,06,08 Batch: WG1562619-3 WG1562619-4								
Chloroethane	96		91		50-151	5		30
1,1-Dichloroethene	101		100		65-135	1		30
trans-1,2-Dichloroethene	99		98		70-130	1		30
Trichloroethene	101		100		70-130	1		30
1,2-Dichlorobenzene	105		104		70-130	1		30
1,3-Dichlorobenzene	107		105		70-130	2		30
1,4-Dichlorobenzene	105		104		70-130	1		30
Methyl tert butyl ether	95		94		66-130	1		30
p/m-Xylene	107		106		70-130	1		30
o-Xylene	107		104		70-130	3		30
cis-1,2-Dichloroethene	96		95		70-130	1		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	104		100		30-146	4		30
Acetone	94		90		54-140	4		30
Carbon disulfide	95		93		59-130	2		30
2-Butanone	85		86		70-130	1		30
4-Methyl-2-pentanone	99		97		70-130	2		30
2-Hexanone	97		97		70-130	0		30
Bromochloromethane	95		95		70-130	0		30
1,2-Dibromoethane	104		103		70-130	1		30
1,2-Dibromo-3-chloropropane	102		102		68-130	0		30
Isopropylbenzene	110		108		70-130	2		30
1,2,3-Trichlorobenzene	102		103		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,06,08 Batch: WG1562619-3 WG1562619-4								
1,2,4-Trichlorobenzene	108		106		70-130	2		30
Methyl Acetate	86		84		51-146	2		30
Cyclohexane	104		101		59-142	3		30
1,4-Dioxane	93		95		65-136	2		30
Freon-113	106		102		50-139	4		30
Methyl cyclohexane	103		102		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		92		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG1562621-3 WG1562621-4								
Methylene chloride	89		89		70-130	0		30
1,1-Dichloroethane	97		95		70-130	2		30
Chloroform	94		93		70-130	1		30
Carbon tetrachloride	107		105		70-130	2		30
1,2-Dichloropropane	95		94		70-130	1		30
Dibromochloromethane	97		97		70-130	0		30
1,1,2-Trichloroethane	97		97		70-130	0		30
Tetrachloroethene	110		108		70-130	2		30
Chlorobenzene	104		104		70-130	0		30
Trichlorofluoromethane	102		99		70-139	3		30
1,2-Dichloroethane	95		94		70-130	1		30
1,1,1-Trichloroethane	106		104		70-130	2		30
Bromodichloromethane	103		101		70-130	2		30
trans-1,3-Dichloropropene	109		108		70-130	1		30
cis-1,3-Dichloropropene	104		103		70-130	1		30
Bromoform	100		100		70-130	0		30
1,1,2,2-Tetrachloroethane	98		99		70-130	1		30
Benzene	98		97		70-130	1		30
Toluene	102		102		70-130	0		30
Ethylbenzene	105		104		70-130	1		30
Chloromethane	96		96		52-130	0		30
Bromomethane	99		95		57-147	4		30
Vinyl chloride	101		98		67-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA

Project Number: 01306

Lab Number: L2156729

Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG1562621-3 WG1562621-4								
Chloroethane	96		91		50-151	5		30
1,1-Dichloroethene	101		100		65-135	1		30
trans-1,2-Dichloroethene	99		98		70-130	1		30
Trichloroethene	101		100		70-130	1		30
1,2-Dichlorobenzene	105		104		70-130	1		30
1,3-Dichlorobenzene	107		105		70-130	2		30
1,4-Dichlorobenzene	105		104		70-130	1		30
Methyl tert butyl ether	95		94		66-130	1		30
p/m-Xylene	107		106		70-130	1		30
o-Xylene	107		104		70-130	3		30
cis-1,2-Dichloroethene	96		95		70-130	1		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	104		100		30-146	4		30
Acetone	94		90		54-140	4		30
Carbon disulfide	95		93		59-130	2		30
2-Butanone	85		86		70-130	1		30
4-Methyl-2-pentanone	99		97		70-130	2		30
2-Hexanone	97		97		70-130	0		30
Bromochloromethane	95		95		70-130	0		30
1,2-Dibromoethane	104		103		70-130	1		30
1,2-Dibromo-3-chloropropane	102		102		68-130	0		30
Isopropylbenzene	110		108		70-130	2		30
1,2,3-Trichlorobenzene	102		103		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG1562621-3 WG1562621-4								
1,2,4-Trichlorobenzene	108		106		70-130	2		30
Methyl Acetate	86		84		51-146	2		30
Cyclohexane	104		101		59-142	3		30
1,4-Dioxane	93		95		65-136	2		30
Freon-113	106		102		50-139	4		30
Methyl cyclohexane	103		102		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		92		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA

Project Number: 01306

Lab Number: L2156729

Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1563726-3 WG1563726-4								
Methylene chloride	91		90		70-130	1		30
1,1-Dichloroethane	93		92		70-130	1		30
Chloroform	98		97		70-130	1		30
Carbon tetrachloride	109		108		70-130	1		30
1,2-Dichloropropane	89		89		70-130	0		30
Dibromochloromethane	92		95		70-130	3		30
1,1,2-Trichloroethane	95		97		70-130	2		30
Tetrachloroethene	109		109		70-130	0		30
Chlorobenzene	101		101		70-130	0		30
Trichlorofluoromethane	104		100		70-139	4		30
1,2-Dichloroethane	88		89		70-130	1		30
1,1,1-Trichloroethane	110		110		70-130	0		30
Bromodichloromethane	100		103		70-130	3		30
trans-1,3-Dichloropropene	95		97		70-130	2		30
cis-1,3-Dichloropropene	99		100		70-130	1		30
Bromoform	98		99		70-130	1		30
1,1,2,2-Tetrachloroethane	92		94		70-130	2		30
Benzene	99		98		70-130	1		30
Toluene	97		95		70-130	2		30
Ethylbenzene	95		94		70-130	1		30
Chloromethane	93		91		52-130	2		30
Bromomethane	112		108		57-147	4		30
Vinyl chloride	95		94		67-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1563726-3 WG1563726-4								
Chloroethane	103		101		50-151	2		30
1,1-Dichloroethene	103		103		65-135	0		30
trans-1,2-Dichloroethene	102		100		70-130	2		30
Trichloroethene	104		104		70-130	0		30
1,2-Dichlorobenzene	100		99		70-130	1		30
1,3-Dichlorobenzene	102		100		70-130	2		30
1,4-Dichlorobenzene	99		98		70-130	1		30
Methyl tert butyl ether	88		90		66-130	2		30
p/m-Xylene	103		102		70-130	1		30
o-Xylene	103		102		70-130	1		30
cis-1,2-Dichloroethene	99		99		70-130	0		30
Styrene	100		100		70-130	0		30
Dichlorodifluoromethane	107		104		30-146	3		30
Acetone	**47**	Q	**47**	Q	54-140	0		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	**69**	Q	72		70-130	4		30
4-Methyl-2-pentanone	76		80		70-130	5		30
2-Hexanone	**68**	Q	72		70-130	6		30
Bromochloromethane	107		107		70-130	0		30
1,2-Dibromoethane	107		109		70-130	2		30
1,2-Dibromo-3-chloropropane	102		108		68-130	6		30
Isopropylbenzene	98		95		70-130	3		30
1,2,3-Trichlorobenzene	101		101		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1563726-3 WG1563726-4								
1,2,4-Trichlorobenzene	103		102		70-130	1		30
Methyl Acetate	92		95		51-146	3		30
Cyclohexane	92		90		59-142	2		30
1,4-Dioxane	102		106		65-136	4		30
Freon-113	112		110		50-139	2		30
Methyl cyclohexane	100		99		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		91		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	85		84		70-130
Dibromofluoromethane	101		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1563726-8 WG1563726-9								
Methylene chloride	86		86		70-130	0		30
1,1-Dichloroethane	88		88		70-130	0		30
Chloroform	92		92		70-130	0		30
Carbon tetrachloride	97		97		70-130	0		30
1,2-Dichloropropane	84		84		70-130	0		30
Dibromochloromethane	88		89		70-130	1		30
1,1,2-Trichloroethane	93		91		70-130	2		30
Tetrachloroethene	99		97		70-130	2		30
Chlorobenzene	95		94		70-130	1		30
Trichlorofluoromethane	84		84		70-139	0		30
1,2-Dichloroethane	84		84		70-130	0		30
1,1,1-Trichloroethane	101		100		70-130	1		30
Bromodichloromethane	95		98		70-130	3		30
trans-1,3-Dichloropropene	92		90		70-130	2		30
cis-1,3-Dichloropropene	92		93		70-130	1		30
Bromoform	95		93		70-130	2		30
1,1,2,2-Tetrachloroethane	91		90		70-130	1		30
Benzene	93		93		70-130	0		30
Toluene	91		89		70-130	2		30
Ethylbenzene	89		89		70-130	0		30
Chloromethane	90		91		52-130	1		30
Bromomethane	110		107		57-147	3		30
Vinyl chloride	84		82		67-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306

Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1563726-8 WG1563726-9								
Chloroethane	102		100		50-151	2		30
1,1-Dichloroethene	93		92		65-135	1		30
trans-1,2-Dichloroethene	95		94		70-130	1		30
Trichloroethene	96		96		70-130	0		30
1,2-Dichlorobenzene	96		93		70-130	3		30
1,3-Dichlorobenzene	97		94		70-130	3		30
1,4-Dichlorobenzene	94		92		70-130	2		30
Methyl tert butyl ether	83		84		66-130	1		30
p/m-Xylene	97		95		70-130	2		30
o-Xylene	96		95		70-130	1		30
cis-1,2-Dichloroethene	95		93		70-130	2		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	88		87		30-146	1		30
Acetone	**45**	Q	**45**	Q	54-140	0		30
Carbon disulfide	86		85		59-130	1		30
2-Butanone	**67**	Q	74		70-130	10		30
4-Methyl-2-pentanone	74		73		70-130	1		30
2-Hexanone	**65**	Q	**66**	Q	70-130	2		30
Bromochloromethane	102		98		70-130	4		30
1,2-Dibromoethane	101		101		70-130	0		30
1,2-Dibromo-3-chloropropane	99		100		68-130	1		30
Isopropylbenzene	92		90		70-130	2		30
1,2,3-Trichlorobenzene	92		91		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1563726-8 WG1563726-9								
1,2,4-Trichlorobenzene	93		93		70-130	0		30
Methyl Acetate	91		91		51-146	0		30
Cyclohexane	70		71		59-142	1		30
1,4-Dioxane	104		105		65-136	1		30
Freon-113	86		86		50-139	0		30
Methyl cyclohexane	76		75		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	85		84		70-130
Dibromofluoromethane	102		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1564309-3 WG1564309-4								
Methylene chloride	91		90		70-130	1		30
1,1-Dichloroethane	93		92		70-130	1		30
Chloroform	98		97		70-130	1		30
Carbon tetrachloride	109		108		70-130	1		30
1,2-Dichloropropane	89		89		70-130	0		30
Dibromochloromethane	92		95		70-130	3		30
1,1,2-Trichloroethane	95		97		70-130	2		30
Tetrachloroethene	109		109		70-130	0		30
Chlorobenzene	101		101		70-130	0		30
Trichlorofluoromethane	104		100		70-139	4		30
1,2-Dichloroethane	88		89		70-130	1		30
1,1,1-Trichloroethane	110		110		70-130	0		30
Bromodichloromethane	100		103		70-130	3		30
trans-1,3-Dichloropropene	95		97		70-130	2		30
cis-1,3-Dichloropropene	99		100		70-130	1		30
Bromoform	98		99		70-130	1		30
1,1,2,2-Tetrachloroethane	92		94		70-130	2		30
Benzene	99		98		70-130	1		30
Toluene	97		95		70-130	2		30
Ethylbenzene	95		94		70-130	1		30
Chloromethane	93		91		52-130	2		30
Bromomethane	112		108		57-147	4		30
Vinyl chloride	95		94		67-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1564309-3 WG1564309-4								
Chloroethane	103		101		50-151	2		30
1,1-Dichloroethene	103		103		65-135	0		30
trans-1,2-Dichloroethene	102		100		70-130	2		30
Trichloroethene	104		104		70-130	0		30
1,2-Dichlorobenzene	100		99		70-130	1		30
1,3-Dichlorobenzene	102		100		70-130	2		30
1,4-Dichlorobenzene	99		98		70-130	1		30
Methyl tert butyl ether	88		90		66-130	2		30
p/m-Xylene	103		102		70-130	1		30
o-Xylene	103		102		70-130	1		30
cis-1,2-Dichloroethene	99		99		70-130	0		30
Styrene	100		100		70-130	0		30
Dichlorodifluoromethane	107		104		30-146	3		30
Acetone	**47**	Q	**47**	Q	54-140	0		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	**69**	Q	72		70-130	4		30
4-Methyl-2-pentanone	76		80		70-130	5		30
2-Hexanone	**68**	Q	72		70-130	6		30
Bromochloromethane	107		107		70-130	0		30
1,2-Dibromoethane	107		109		70-130	2		30
1,2-Dibromo-3-chloropropane	102		108		68-130	6		30
Isopropylbenzene	98		95		70-130	3		30
1,2,3-Trichlorobenzene	101		101		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1564309-3 WG1564309-4								
1,2,4-Trichlorobenzene	103		102		70-130	1		30
Methyl Acetate	92		95		51-146	3		30
Cyclohexane	92		90		59-142	2		30
1,4-Dioxane	102		106		65-136	4		30
Freon-113	112		110		50-139	2		30
Methyl cyclohexane	100		99		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		91		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	86		84		70-130
Dibromofluoromethane	101		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1564318-3 WG1564318-4								
Methylene chloride	**146**	Q	109		70-130	29		30
1,1-Dichloroethane	102		98		70-130	4		30
Chloroform	101		99		70-130	2		30
Carbon tetrachloride	112		110		70-130	2		30
1,2-Dichloropropane	99		97		70-130	2		30
Dibromochloromethane	108		111		70-130	3		30
1,1,2-Trichloroethane	100		101		70-130	1		30
Tetrachloroethene	112		112		70-130	0		30
Chlorobenzene	105		104		70-130	1		30
Trichlorofluoromethane	87		87		70-139	0		30
1,2-Dichloroethane	94		94		70-130	0		30
1,1,1-Trichloroethane	113		110		70-130	3		30
Bromodichloromethane	101		100		70-130	1		30
trans-1,3-Dichloropropene	103		106		70-130	3		30
cis-1,3-Dichloropropene	100		97		70-130	3		30
Bromoform	90		87		70-130	3		30
1,1,2,2-Tetrachloroethane	100		97		70-130	3		30
Benzene	102		101		70-130	1		30
Toluene	97		97		70-130	0		30
Ethylbenzene	100		99		70-130	1		30
Chloromethane	102		101		52-130	1		30
Bromomethane	92		93		57-147	1		30
Vinyl chloride	101		99		67-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA

Project Number: 01306

Lab Number: L2156729

Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1564318-3 WG1564318-4								
Chloroethane	98		97		50-151	1		30
1,1-Dichloroethene	88		88		65-135	0		30
trans-1,2-Dichloroethene	103		100		70-130	3		30
Trichloroethene	104		101		70-130	3		30
1,2-Dichlorobenzene	103		100		70-130	3		30
1,3-Dichlorobenzene	106		102		70-130	4		30
1,4-Dichlorobenzene	104		101		70-130	3		30
Methyl tert butyl ether	100		99		66-130	1		30
p/m-Xylene	104		106		70-130	2		30
o-Xylene	104		106		70-130	2		30
cis-1,2-Dichloroethene	104		101		70-130	3		30
Styrene	91		92		70-130	1		30
Dichlorodifluoromethane	112		110		30-146	2		30
Acetone	105		114		54-140	8		30
Carbon disulfide	88		88		59-130	0		30
2-Butanone	98		101		70-130	3		30
4-Methyl-2-pentanone	91		94		70-130	3		30
2-Hexanone	86		90		70-130	5		30
Bromochloromethane	99		96		70-130	3		30
1,2-Dibromoethane	103		106		70-130	3		30
1,2-Dibromo-3-chloropropane	100		97		68-130	3		30
Isopropylbenzene	102		99		70-130	3		30
1,2,3-Trichlorobenzene	106		100		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1564318-3 WG1564318-4								
1,2,4-Trichlorobenzene	109		105		70-130	4		30
Methyl Acetate	95		97		51-146	2		30
Cyclohexane	109		106		59-142	3		30
1,4-Dioxane	101		101		65-136	0		30
Freon-113	91		91		50-139	0		30
Methyl cyclohexane	110		104		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		93		70-130
Toluene-d8	101		103		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	101		101		70-130

SEMIVOLATILES

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-01
Client ID: SB1 (0.5-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 08:40
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 13:01
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	54	J	ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	550		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	50	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	250		ug/kg	110	21.	1
Benzo(a)pyrene	210		ug/kg	150	45.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-01 Date Collected: 10/12/21 08:40

Client ID: SB1 (0.5-1.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	250		ug/kg	110	31.	1
Benzo(k)fluoranthene	95	J	ug/kg	110	30.	1
Chrysene	240		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	130		ug/kg	110	36.	1
Benzo(ghi)perylene	130	J	ug/kg	150	22.	1
Fluorene	48	J	ug/kg	190	18.	1
Phenanthrene	550		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	33	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	140	J	ug/kg	150	26.	1
Pyrene	470		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	31	J	ug/kg	190	18.	1
2-Methylnaphthalene	30	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	64	J	ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	ND		ug/kg	250	50.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-01 Date Collected: 10/12/21 08:40

Client ID: SB1 (0.5-1.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	49		10-136
4-Terphenyl-d14	68		18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-02
Client ID: SB3 (0.5-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 09:10
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 14:11
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	73	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	200		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	64	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-02 Date Collected: 10/12/21 09:10

Client ID: SB3 (0.5-1.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	66	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	140		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	34	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	180		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	28	J	ug/kg	150	26.	1
Pyrene	94	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	34	J	ug/kg	190	18.	1
2-Methylnaphthalene	340		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	64	J	ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	51.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-02 Date Collected: 10/12/21 09:10

Client ID: SB3 (0.5-1.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	65		18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-03
Client ID: SB4 (0.5-4')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 09:20
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 14:35
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1800		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	5900		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	2500		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	2700		ug/kg	120	22.	1
Benzo(a)pyrene	2400		ug/kg	160	48.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-03 Date Collected: 10/12/21 09:20

Client ID: SB4 (0.5-4') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	3500		ug/kg	120	33.	1
Benzo(k)fluoranthene	1000		ug/kg	120	32.	1
Chrysene	2500		ug/kg	120	20.	1
Acenaphthylene	55	J	ug/kg	160	30.	1
Anthracene	1500		ug/kg	120	38.	1
Benzo(ghi)perylene	1500		ug/kg	160	23.	1
Fluorene	1300		ug/kg	200	19.	1
Phenanthrene	5000		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	400		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	1800		ug/kg	160	27.	1
Pyrene	4600		ug/kg	120	20.	1
Biphenyl	270	J	ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	960		ug/kg	200	19.	1
2-Methylnaphthalene	960		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	700		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	69.	1
Benzaldehyde	ND		ug/kg	260	53.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-03 Date Collected: 10/12/21 09:20

Client ID: SB4 (0.5-4') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	100		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	74		18-120

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-04 D
Client ID: SB8 (5-7')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 10:30
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 04:26
Analyst: CMM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	5000		ug/kg	820	110	5
Hexachlorobenzene	ND		ug/kg	620	120	5
Bis(2-chloroethyl)ether	ND		ug/kg	920	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	270	5
2,4-Dinitrotoluene	ND		ug/kg	1000	200	5
2,6-Dinitrotoluene	ND		ug/kg	1000	180	5
Fluoranthene	25000		ug/kg	620	120	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	110	5
4-Bromophenyl phenyl ether	ND		ug/kg	1000	160	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	180	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	100	5
Hexachlorobutadiene	ND		ug/kg	1000	150	5
Hexachlorocyclopentadiene	ND		ug/kg	2900	930	5
Hexachloroethane	ND		ug/kg	820	170	5
Isophorone	ND		ug/kg	920	130	5
Naphthalene	2500		ug/kg	1000	120	5
Nitrobenzene	ND		ug/kg	920	150	5
NDPA/DPA	ND		ug/kg	820	120	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	160	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1000	360	5
Butyl benzyl phthalate	ND		ug/kg	1000	260	5
Di-n-butylphthalate	ND		ug/kg	1000	190	5
Di-n-octylphthalate	ND		ug/kg	1000	350	5
Diethyl phthalate	ND		ug/kg	1000	95.	5
Dimethyl phthalate	ND		ug/kg	1000	220	5
Benzo(a)anthracene	10000		ug/kg	620	120	5
Benzo(a)pyrene	9300		ug/kg	820	250	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-04 D Date Collected: 10/12/21 10:30

Client ID: SB8 (5-7') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	11000		ug/kg	620	170	5
Benzo(k)fluoranthene	3700		ug/kg	620	160	5
Chrysene	9300		ug/kg	620	110	5
Acenaphthylene	ND		ug/kg	820	160	5
Anthracene	9100		ug/kg	620	200	5
Benzo(ghi)perylene	5300		ug/kg	820	120	5
Fluorene	6200		ug/kg	1000	100	5
Phenanthrene	31000		ug/kg	620	120	5
Dibenzo(a,h)anthracene	1400		ug/kg	620	120	5
Indeno(1,2,3-cd)pyrene	6400		ug/kg	820	140	5
Pyrene	19000		ug/kg	620	100	5
Biphenyl	340	J	ug/kg	2300	240	5
4-Chloroaniline	ND		ug/kg	1000	190	5
2-Nitroaniline	ND		ug/kg	1000	200	5
3-Nitroaniline	ND		ug/kg	1000	190	5
4-Nitroaniline	ND		ug/kg	1000	420	5
Dibenzofuran	3200		ug/kg	1000	97.	5
2-Methylnaphthalene	1000	J	ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	110	5
Acetophenone	ND		ug/kg	1000	130	5
2,4,6-Trichlorophenol	ND		ug/kg	620	190	5
p-Chloro-m-cresol	ND		ug/kg	1000	150	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	920	160	5
2,4-Dimethylphenol	ND		ug/kg	1000	340	5
2-Nitrophenol	ND		ug/kg	2200	390	5
4-Nitrophenol	ND		ug/kg	1400	420	5
2,4-Dinitrophenol	ND		ug/kg	4900	480	5
4,6-Dinitro-o-cresol	ND		ug/kg	2700	490	5
Pentachlorophenol	ND		ug/kg	820	230	5
Phenol	ND		ug/kg	1000	160	5
2-Methylphenol	ND		ug/kg	1000	160	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1500	160	5
2,4,5-Trichlorophenol	ND		ug/kg	1000	200	5
Carbazole	4500		ug/kg	1000	100	5
Atrazine	ND		ug/kg	820	360	5
Benzaldehyde	ND		ug/kg	1400	280	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-04 D
Client ID: SB8 (5-7')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 10:30
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	1000	310	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1000	210	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	98		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	85		18-120

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-05
Client ID: SB9 (0.5-3')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 11:00
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 15:22
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	36	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	22	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-05 Date Collected: 10/12/21 11:00

Client ID: SB9 (0.5-3') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	24	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	38	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	30	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	ND		ug/kg	240	50.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-05 Date Collected: 10/12/21 11:00

Client ID: SB9 (0.5-3') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	58		18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06 RE\D
Client ID: SB11 (2.5-5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 11:45
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 05:37
Analyst: CMM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	390	J	ug/kg	750	97.	5
Hexachlorobenzene	ND		ug/kg	560	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	840	130	5
2-Chloronaphthalene	ND		ug/kg	940	93.	5
3,3'-Dichlorobenzidine	ND		ug/kg	940	250	5
2,4-Dinitrotoluene	ND		ug/kg	940	190	5
2,6-Dinitrotoluene	ND		ug/kg	940	160	5
Fluoranthene	3400		ug/kg	560	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	940	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	940	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	94.	5
Hexachlorobutadiene	ND		ug/kg	940	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	850	5
Hexachloroethane	ND		ug/kg	750	150	5
Isophorone	ND		ug/kg	840	120	5
Naphthalene	440	J	ug/kg	940	110	5
Nitrobenzene	ND		ug/kg	840	140	5
NDPA/DPA	ND		ug/kg	750	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	940	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	940	320	5
Butyl benzyl phthalate	ND		ug/kg	940	240	5
Di-n-butylphthalate	ND		ug/kg	940	180	5
Di-n-octylphthalate	ND		ug/kg	940	320	5
Diethyl phthalate	ND		ug/kg	940	87.	5
Dimethyl phthalate	ND		ug/kg	940	200	5
Benzo(a)anthracene	1500		ug/kg	560	100	5
Benzo(a)pyrene	960		ug/kg	750	230	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06 RE\D Date Collected: 10/12/21 11:45

Client ID: SB11 (2.5-5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	1400		ug/kg	560	160	5
Benzo(k)fluoranthene	380	J	ug/kg	560	150	5
Chrysene	2000		ug/kg	560	97.	5
Acenaphthylene	ND		ug/kg	750	140	5
Anthracene	1200		ug/kg	560	180	5
Benzo(ghi)perylene	580	J	ug/kg	750	110	5
Fluorene	1400		ug/kg	940	91.	5
Phenanthrene	2000		ug/kg	560	110	5
Dibenzo(a,h)anthracene	160	J	ug/kg	560	110	5
Indeno(1,2,3-cd)pyrene	650	J	ug/kg	750	130	5
Pyrene	3300		ug/kg	560	93.	5
Biphenyl	ND		ug/kg	2100	220	5
4-Chloroaniline	ND		ug/kg	940	170	5
2-Nitroaniline	ND		ug/kg	940	180	5
3-Nitroaniline	ND		ug/kg	940	180	5
4-Nitroaniline	ND		ug/kg	940	390	5
Dibenzofuran	510	J	ug/kg	940	89.	5
2-Methylnaphthalene	480	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	940	98.	5
Acetophenone	ND		ug/kg	940	120	5
2,4,6-Trichlorophenol	ND		ug/kg	560	180	5
p-Chloro-m-cresol	ND		ug/kg	940	140	5
2-Chlorophenol	ND		ug/kg	940	110	5
2,4-Dichlorophenol	ND		ug/kg	840	150	5
2,4-Dimethylphenol	ND		ug/kg	940	310	5
2-Nitrophenol	ND		ug/kg	2000	350	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4500	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	450	5
Pentachlorophenol	ND		ug/kg	750	210	5
Phenol	ND		ug/kg	940	140	5
2-Methylphenol	ND		ug/kg	940	140	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	150	5
2,4,5-Trichlorophenol	ND		ug/kg	940	180	5
Carbazole	ND		ug/kg	940	91.	5
Atrazine	ND		ug/kg	750	330	5
Benzaldehyde	ND		ug/kg	1200	250	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06 RE\D Date Collected: 10/12/21 11:45

Client ID: SB11 (2.5-5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	940	280	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	940	190	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		25-120
Phenol-d6	32		10-120
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	45		10-136
4-Terphenyl-d14	58		18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06 D
Client ID: SB11 (2.5-5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 11:45
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 04:02
Analyst: CMM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	750	98.	5
Hexachlorobenzene	ND		ug/kg	560	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	850	130	5
2-Chloronaphthalene	ND		ug/kg	940	93.	5
3,3'-Dichlorobenzidine	ND		ug/kg	940	250	5
2,4-Dinitrotoluene	ND		ug/kg	940	190	5
2,6-Dinitrotoluene	ND		ug/kg	940	160	5
Fluoranthene	1400		ug/kg	560	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	940	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	940	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	94.	5
Hexachlorobutadiene	ND		ug/kg	940	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	850	5
Hexachloroethane	ND		ug/kg	750	150	5
Isophorone	ND		ug/kg	850	120	5
Naphthalene	130	J	ug/kg	940	110	5
Nitrobenzene	ND		ug/kg	850	140	5
NDPA/DPA	ND		ug/kg	750	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	940	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	940	330	5
Butyl benzyl phthalate	ND		ug/kg	940	240	5
Di-n-butylphthalate	ND		ug/kg	940	180	5
Di-n-octylphthalate	ND		ug/kg	940	320	5
Diethyl phthalate	ND		ug/kg	940	87.	5
Dimethyl phthalate	ND		ug/kg	940	200	5
Benzo(a)anthracene	750		ug/kg	560	110	5
Benzo(a)pyrene	530	J	ug/kg	750	230	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06 D Date Collected: 10/12/21 11:45

Client ID: SB11 (2.5-5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	640		ug/kg	560	160	5
Benzo(k)fluoranthene	230	J	ug/kg	560	150	5
Chrysene	900		ug/kg	560	98.	5
Acenaphthylene	ND		ug/kg	750	140	5
Anthracene	410	J	ug/kg	560	180	5
Benzo(ghi)perylene	280	J	ug/kg	750	110	5
Fluorene	700	J	ug/kg	940	92.	5
Phenanthrene	540	J	ug/kg	560	110	5
Dibenzo(a,h)anthracene	ND		ug/kg	560	110	5
Indeno(1,2,3-cd)pyrene	280	J	ug/kg	750	130	5
Pyrene	1400		ug/kg	560	94.	5
Biphenyl	ND		ug/kg	2100	220	5
4-Chloroaniline	ND		ug/kg	940	170	5
2-Nitroaniline	ND		ug/kg	940	180	5
3-Nitroaniline	ND		ug/kg	940	180	5
4-Nitroaniline	ND		ug/kg	940	390	5
Dibenzofuran	210	J	ug/kg	940	89.	5
2-Methylnaphthalene	130	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	940	98.	5
Acetophenone	ND		ug/kg	940	120	5
2,4,6-Trichlorophenol	ND		ug/kg	560	180	5
p-Chloro-m-cresol	ND		ug/kg	940	140	5
2-Chlorophenol	ND		ug/kg	940	110	5
2,4-Dichlorophenol	ND		ug/kg	850	150	5
2,4-Dimethylphenol	ND		ug/kg	940	310	5
2-Nitrophenol	ND		ug/kg	2000	350	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4500	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	450	5
Pentachlorophenol	ND		ug/kg	750	210	5
Phenol	ND		ug/kg	940	140	5
2-Methylphenol	ND		ug/kg	940	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5
2,4,5-Trichlorophenol	ND		ug/kg	940	180	5
Carbazole	ND		ug/kg	940	92.	5
Atrazine	ND		ug/kg	750	330	5
Benzaldehyde	ND		ug/kg	1200	250	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06 D
Client ID: SB11 (2.5-5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 11:45
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	940	290	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	940	190	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**22**	Q	25-120
Phenol-d6	16		10-120
Nitrobenzene-d5	**18**	Q	23-120
2-Fluorobiphenyl	**23**	Q	30-120
2,4,6-Tribromophenol	23		10-136
4-Terphenyl-d14	20		18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08 RE\D
Client ID: SB12 (3.5-4.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 12:40
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 07:58
Analyst: CMM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	3700	480	25
Hexachlorobenzene	ND		ug/kg	2800	520	25
Bis(2-chloroethyl)ether	ND		ug/kg	4200	640	25
2-Chloronaphthalene	ND		ug/kg	4700	460	25
3,3'-Dichlorobenzidine	ND		ug/kg	4700	1200	25
2,4-Dinitrotoluene	ND		ug/kg	4700	940	25
2,6-Dinitrotoluene	ND		ug/kg	4700	800	25
Fluoranthene	690	J	ug/kg	2800	540	25
4-Chlorophenyl phenyl ether	ND		ug/kg	4700	500	25
4-Bromophenyl phenyl ether	ND		ug/kg	4700	720	25
Bis(2-chloroisopropyl)ether	ND		ug/kg	5600	800	25
Bis(2-chloroethoxy)methane	ND		ug/kg	5100	470	25
Hexachlorobutadiene	ND		ug/kg	4700	690	25
Hexachlorocyclopentadiene	ND		ug/kg	13000	4200	25
Hexachloroethane	ND		ug/kg	3700	760	25
Isophorone	ND		ug/kg	4200	610	25
Naphthalene	ND		ug/kg	4700	570	25
Nitrobenzene	ND		ug/kg	4200	690	25
NDPA/DPA	ND		ug/kg	3700	530	25
n-Nitrosodi-n-propylamine	ND		ug/kg	4700	720	25
Bis(2-ethylhexyl)phthalate	ND		ug/kg	4700	1600	25
Butyl benzyl phthalate	ND		ug/kg	4700	1200	25
Di-n-butylphthalate	ND		ug/kg	4700	890	25
Di-n-octylphthalate	ND		ug/kg	4700	1600	25
Diethyl phthalate	ND		ug/kg	4700	430	25
Dimethyl phthalate	ND		ug/kg	4700	980	25
Benzo(a)anthracene	590	J	ug/kg	2800	530	25
Benzo(a)pyrene	ND		ug/kg	3700	1100	25

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08 RE\D Date Collected: 10/12/21 12:40

Client ID: SB12 (3.5-4.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	2800	790	25
Benzo(k)fluoranthene	ND		ug/kg	2800	750	25
Chrysene	1100	J	ug/kg	2800	490	25
Acenaphthylene	ND		ug/kg	3700	720	25
Anthracene	1100	J	ug/kg	2800	910	25
Benzo(ghi)perylene	ND		ug/kg	3700	550	25
Fluorene	1400	J	ug/kg	4700	460	25
Phenanthrene	3900		ug/kg	2800	570	25
Dibenzo(a,h)anthracene	ND		ug/kg	2800	540	25
Indeno(1,2,3-cd)pyrene	ND		ug/kg	3700	650	25
Pyrene	1100	J	ug/kg	2800	460	25
Biphenyl	ND		ug/kg	11000	1100	25
4-Chloroaniline	ND		ug/kg	4700	850	25
2-Nitroaniline	ND		ug/kg	4700	900	25
3-Nitroaniline	ND		ug/kg	4700	880	25
4-Nitroaniline	ND		ug/kg	4700	1900	25
Dibenzofuran	ND		ug/kg	4700	440	25
2-Methylnaphthalene	ND		ug/kg	5600	570	25
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	4700	490	25
Acetophenone	ND		ug/kg	4700	580	25
2,4,6-Trichlorophenol	ND		ug/kg	2800	890	25
p-Chloro-m-cresol	ND		ug/kg	4700	700	25
2-Chlorophenol	ND		ug/kg	4700	550	25
2,4-Dichlorophenol	ND		ug/kg	4200	750	25
2,4-Dimethylphenol	ND		ug/kg	4700	1500	25
2-Nitrophenol	ND		ug/kg	10000	1800	25
4-Nitrophenol	ND		ug/kg	6600	1900	25
2,4-Dinitrophenol	ND		ug/kg	22000	2200	25
4,6-Dinitro-o-cresol	ND		ug/kg	12000	2200	25
Pentachlorophenol	ND		ug/kg	3700	1000	25
Phenol	750	J	ug/kg	4700	710	25
2-Methylphenol	ND		ug/kg	4700	730	25
3-Methylphenol/4-Methylphenol	ND		ug/kg	6700	730	25
2,4,5-Trichlorophenol	ND		ug/kg	4700	900	25
Carbazole	ND		ug/kg	4700	460	25
Atrazine	ND		ug/kg	3700	1600	25
Benzaldehyde	ND		ug/kg	6200	1300	25

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08 RE\D Date Collected: 10/12/21 12:40

Client ID: SB12 (3.5-4.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	4700	1400	25
2,3,4,6-Tetrachlorophenol	ND		ug/kg	4700	950	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	**0**	Q	18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08 D
Client ID: SB12 (3.5-4.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 12:40
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 03:39
Analyst: CMM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	760	98.	5
Hexachlorobenzene	ND		ug/kg	570	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	850	130	5
2-Chloronaphthalene	ND		ug/kg	940	94.	5
3,3'-Dichlorobenzidine	ND		ug/kg	940	250	5
2,4-Dinitrotoluene	ND		ug/kg	940	190	5
2,6-Dinitrotoluene	ND		ug/kg	940	160	5
Fluoranthene	540	J	ug/kg	570	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	940	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	940	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	95.	5
Hexachlorobutadiene	ND		ug/kg	940	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	860	5
Hexachloroethane	ND		ug/kg	760	150	5
Isophorone	ND		ug/kg	850	120	5
Naphthalene	ND		ug/kg	940	120	5
Nitrobenzene	ND		ug/kg	850	140	5
NDPA/DPA	ND		ug/kg	760	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	940	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	940	330	5
Butyl benzyl phthalate	ND		ug/kg	940	240	5
Di-n-butylphthalate	ND		ug/kg	940	180	5
Di-n-octylphthalate	ND		ug/kg	940	320	5
Diethyl phthalate	ND		ug/kg	940	87.	5
Dimethyl phthalate	ND		ug/kg	940	200	5
Benzo(a)anthracene	300	J	ug/kg	570	110	5
Benzo(a)pyrene	ND		ug/kg	760	230	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08 D Date Collected: 10/12/21 12:40

Client ID: SB12 (3.5-4.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	570	160	5
Benzo(k)fluoranthene	ND		ug/kg	570	150	5
Chrysene	780		ug/kg	570	98.	5
Acenaphthylene	ND		ug/kg	760	140	5
Anthracene	940		ug/kg	570	180	5
Benzo(ghi)perylene	ND		ug/kg	760	110	5
Fluorene	900	J	ug/kg	940	92.	5
Phenanthrene	2900		ug/kg	570	110	5
Dibenzo(a,h)anthracene	ND		ug/kg	570	110	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	760	130	5
Pyrene	850		ug/kg	570	94.	5
Biphenyl	ND		ug/kg	2200	220	5
4-Chloroaniline	ND		ug/kg	940	170	5
2-Nitroaniline	ND		ug/kg	940	180	5
3-Nitroaniline	ND		ug/kg	940	180	5
4-Nitroaniline	ND		ug/kg	940	390	5
Dibenzofuran	ND		ug/kg	940	89.	5
2-Methylnaphthalene	220	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	940	98.	5
Acetophenone	ND		ug/kg	940	120	5
2,4,6-Trichlorophenol	ND		ug/kg	570	180	5
p-Chloro-m-cresol	ND		ug/kg	940	140	5
2-Chlorophenol	ND		ug/kg	940	110	5
2,4-Dichlorophenol	ND		ug/kg	850	150	5
2,4-Dimethylphenol	ND		ug/kg	940	310	5
2-Nitrophenol	ND		ug/kg	2000	360	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4500	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	450	5
Pentachlorophenol	ND		ug/kg	760	210	5
Phenol	ND		ug/kg	940	140	5
2-Methylphenol	ND		ug/kg	940	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5
2,4,5-Trichlorophenol	ND		ug/kg	940	180	5
Carbazole	ND		ug/kg	940	92.	5
Atrazine	ND		ug/kg	760	330	5
Benzaldehyde	ND		ug/kg	1200	250	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08 D Date Collected: 10/12/21 12:40

Client ID: SB12 (3.5-4.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	940	290	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	940	190	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**16**	Q	25-120
Phenol-d6	16		10-120
Nitrobenzene-d5	**22**	Q	23-120
2-Fluorobiphenyl	**23**	Q	30-120
2,4,6-Tribromophenol	23		10-136
4-Terphenyl-d14	29		18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-10
Client ID: SB21 (1-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/13/21 10:05
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 16:33
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	36	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	28	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	28	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-10 Date Collected: 10/13/21 10:05

Client ID: SB21 (1-1.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	23	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	32	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	34	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	33	J	ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	50.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-10 Date Collected: 10/13/21 10:05

Client ID: SB21 (1-1.5') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	38		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	30		10-136
4-Terphenyl-d14	63		18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-11
Client ID: SB22 (0.5-3')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/13/21 12:50
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 16:56
Analyst: EK
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	440		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	34	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	180		ug/kg	110	20.	1
Benzo(a)pyrene	240		ug/kg	140	44.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-11 Date Collected: 10/13/21 12:50

Client ID: SB22 (0.5-3') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	410		ug/kg	110	31.	1
Benzo(k)fluoranthene	120		ug/kg	110	29.	1
Chrysene	250		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	41	J	ug/kg	110	36.	1
Benzo(ghi)perylene	280		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	160		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	57	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	260		ug/kg	140	25.	1
Pyrene	380		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	44	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	24	J	ug/kg	180	18.	1
Atrazine	ND		ug/kg	140	64.	1
Benzaldehyde	ND		ug/kg	240	49.	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-11 Date Collected: 10/13/21 12:50

Client ID: SB22 (0.5-3') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		25-120
Phenol-d6	26		10-120
Nitrobenzene-d5	**21**	Q	23-120
2-Fluorobiphenyl	**22**	Q	30-120
2,4,6-Tribromophenol	20		10-136
4-Terphenyl-d14	**16**	Q	18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-11 RE\D
Client ID: SB22 (0.5-3')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/13/21 12:50
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 06:00
Analyst: CMM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	730	94.	5
Hexachlorobenzene	ND		ug/kg	550	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	820	120	5
2-Chloronaphthalene	ND		ug/kg	910	90.	5
3,3'-Dichlorobenzidine	ND		ug/kg	910	240	5
2,4-Dinitrotoluene	ND		ug/kg	910	180	5
2,6-Dinitrotoluene	ND		ug/kg	910	160	5
Fluoranthene	1100		ug/kg	550	100	5
4-Chlorophenyl phenyl ether	ND		ug/kg	910	97.	5
4-Bromophenyl phenyl ether	ND		ug/kg	910	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	980	91.	5
Hexachlorobutadiene	ND		ug/kg	910	130	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	820	5
Hexachloroethane	ND		ug/kg	730	150	5
Isophorone	ND		ug/kg	820	120	5
Naphthalene	170	J	ug/kg	910	110	5
Nitrobenzene	ND		ug/kg	820	130	5
NDPA/DPA	ND		ug/kg	730	100	5
n-Nitrosodi-n-propylamine	ND		ug/kg	910	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	910	320	5
Butyl benzyl phthalate	ND		ug/kg	910	230	5
Di-n-butylphthalate	ND		ug/kg	910	170	5
Di-n-octylphthalate	ND		ug/kg	910	310	5
Diethyl phthalate	ND		ug/kg	910	84.	5
Dimethyl phthalate	ND		ug/kg	910	190	5
Benzo(a)anthracene	460	J	ug/kg	550	100	5
Benzo(a)pyrene	520	J	ug/kg	730	220	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-11 RE\D Date Collected: 10/13/21 12:50

Client ID: SB22 (0.5-3') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	760		ug/kg	550	150	5
Benzo(k)fluoranthene	310	J	ug/kg	550	140	5
Chrysene	590		ug/kg	550	95.	5
Acenaphthylene	ND		ug/kg	730	140	5
Anthracene	ND		ug/kg	550	180	5
Benzo(ghi)perylene	560	J	ug/kg	730	110	5
Fluorene	ND		ug/kg	910	88.	5
Phenanthrene	570		ug/kg	550	110	5
Dibenzo(a,h)anthracene	130	J	ug/kg	550	100	5
Indeno(1,2,3-cd)pyrene	550	J	ug/kg	730	130	5
Pyrene	920		ug/kg	550	90.	5
Biphenyl	ND		ug/kg	2100	210	5
4-Chloroaniline	ND		ug/kg	910	160	5
2-Nitroaniline	ND		ug/kg	910	180	5
3-Nitroaniline	ND		ug/kg	910	170	5
4-Nitroaniline	ND		ug/kg	910	380	5
Dibenzofuran	ND		ug/kg	910	86.	5
2-Methylnaphthalene	210	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	910	95.	5
Acetophenone	ND		ug/kg	910	110	5
2,4,6-Trichlorophenol	ND		ug/kg	550	170	5
p-Chloro-m-cresol	ND		ug/kg	910	140	5
2-Chlorophenol	ND		ug/kg	910	110	5
2,4-Dichlorophenol	ND		ug/kg	820	150	5
2,4-Dimethylphenol	ND		ug/kg	910	300	5
2-Nitrophenol	ND		ug/kg	2000	340	5
4-Nitrophenol	ND		ug/kg	1300	370	5
2,4-Dinitrophenol	ND		ug/kg	4400	420	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	440	5
Pentachlorophenol	ND		ug/kg	730	200	5
Phenol	ND		ug/kg	910	140	5
2-Methylphenol	ND		ug/kg	910	140	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	140	5
2,4,5-Trichlorophenol	ND		ug/kg	910	170	5
Carbazole	ND		ug/kg	910	88.	5
Atrazine	ND		ug/kg	730	320	5
Benzaldehyde	ND		ug/kg	1200	240	5

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-11 RE\D Date Collected: 10/13/21 12:50

Client ID: SB22 (0.5-3') Date Received: 10/15/21

Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	910	280	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	910	180	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		25-120
Phenol-d6	33		10-120
Nitrobenzene-d5	29		23-120
2-Fluorobiphenyl	43		30-120
2,4,6-Tribromophenol	35		10-136
4-Terphenyl-d14	40		18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/21/21 00:09
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08,10-11 Batch: WG1560754-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/21/21 00:09
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08,10-11 Batch: WG1560754-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/21/21 00:09
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 10/20/21 03:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08,10-11 Batch: WG1560754-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	74		18-120

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/29/21 00:54
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/28/21 15:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06,08,11 Batch: WG1564479-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/29/21 00:54
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/28/21 15:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06,08,11 Batch: WG1564479-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/29/21 00:54
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/28/21 15:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06,08,11 Batch: WG1564479-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	85		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08,10-11 Batch: WG1560754-2 WG1560754-3								
Acenaphthene	64		58		31-137	10		50
Hexachlorobenzene	74		67		40-140	10		50
Bis(2-chloroethyl)ether	54		49		40-140	10		50
2-Chloronaphthalene	68		61		40-140	11		50
3,3'-Dichlorobenzidine	53		48		40-140	10		50
2,4-Dinitrotoluene	74		66		40-132	11		50
2,6-Dinitrotoluene	74		66		40-140	11		50
Fluoranthene	67		61		40-140	9		50
4-Chlorophenyl phenyl ether	68		60		40-140	13		50
4-Bromophenyl phenyl ether	72		65		40-140	10		50
Bis(2-chloroisopropyl)ether	48		43		40-140	11		50
Bis(2-chloroethoxy)methane	58		52		40-117	11		50
Hexachlorobutadiene	71		64		40-140	10		50
Hexachlorocyclopentadiene	56		49		40-140	13		50
Hexachloroethane	62		55		40-140	12		50
Isophorone	61		54		40-140	12		50
Naphthalene	62		56		40-140	10		50
Nitrobenzene	61		56		40-140	9		50
NDPA/DPA	67		59		36-157	13		50
n-Nitrosodi-n-propylamine	60		54		32-121	11		50
Bis(2-ethylhexyl)phthalate	65		57		40-140	13		50
Butyl benzyl phthalate	68		61		40-140	11		50
Di-n-butylphthalate	64		58		40-140	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08,10-11 Batch: WG1560754-2 WG1560754-3								
Di-n-octylphthalate	64		57		40-140	12		50
Diethyl phthalate	67		60		40-140	11		50
Dimethyl phthalate	70		63		40-140	11		50
Benzo(a)anthracene	64		58		40-140	10		50
Benzo(a)pyrene	67		59		40-140	13		50
Benzo(b)fluoranthene	73		65		40-140	12		50
Benzo(k)fluoranthene	69		61		40-140	12		50
Chrysene	65		57		40-140	13		50
Acenaphthylene	65		58		40-140	11		50
Anthracene	65		57		40-140	13		50
Benzo(ghi)perylene	73		65		40-140	12		50
Fluorene	67		60		40-140	11		50
Phenanthrene	62		56		40-140	10		50
Dibenzo(a,h)anthracene	74		66		40-140	11		50
Indeno(1,2,3-cd)pyrene	66		59		40-140	11		50
Pyrene	67		60		35-142	11		50
Biphenyl	70		63		37-127	11		50
4-Chloroaniline	62		61		40-140	2		50
2-Nitroaniline	72		64		47-134	12		50
3-Nitroaniline	53		48		26-129	10		50
4-Nitroaniline	62		56		41-125	10		50
Dibenzofuran	64		58		40-140	10		50
2-Methylnaphthalene	66		59		40-140	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08,10-11 Batch: WG1560754-2 WG1560754-3								
1,2,4,5-Tetrachlorobenzene	76		68		40-117	11		50
Acetophenone	67		60		14-144	11		50
2,4,6-Trichlorophenol	77		68		30-130	12		50
p-Chloro-m-cresol	73		65		26-103	12		50
2-Chlorophenol	65		58		25-102	11		50
2,4-Dichlorophenol	71		64		30-130	10		50
2,4-Dimethylphenol	67		58		30-130	14		50
2-Nitrophenol	68		62		30-130	9		50
4-Nitrophenol	67		60		11-114	11		50
2,4-Dinitrophenol	41		37		4-130	10		50
4,6-Dinitro-o-cresol	69		61		10-130	12		50
Pentachlorophenol	59		52		17-109	13		50
Phenol	62		55		26-90	12		50
2-Methylphenol	64		57		30-130.	12		50
3-Methylphenol/4-Methylphenol	70		62		30-130	12		50
2,4,5-Trichlorophenol	76		67		30-130	13		50
Carbazole	65		58		54-128	11		50
Atrazine	76		70		40-140	8		50
Benzaldehyde	58		52		40-140	11		50
Caprolactam	69		61		15-130	12		50
2,3,4,6-Tetrachlorophenol	73		63		40-140	15		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08,10-11 Batch: WG1560754-2 WG1560754-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		56		25-120
Phenol-d6	67		59		10-120
Nitrobenzene-d5	62		57		23-120
2-Fluorobiphenyl	67		60		30-120
2,4,6-Tribromophenol	77		69		10-136
4-Terphenyl-d14	69		63		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,08,11 Batch: WG1564479-2 WG1564479-3								
Acenaphthene	71		62		31-137	14		50
Hexachlorobenzene	79		74		40-140	7		50
Bis(2-chloroethyl)ether	76		60		40-140	24		50
2-Chloronaphthalene	74		62		40-140	18		50
3,3'-Dichlorobenzidine	58		60		40-140	3		50
2,4-Dinitrotoluene	78		69		40-132	12		50
2,6-Dinitrotoluene	79		68		40-140	15		50
Fluoranthene	76		68		40-140	11		50
4-Chlorophenyl phenyl ether	75		67		40-140	11		50
4-Bromophenyl phenyl ether	77		72		40-140	7		50
Bis(2-chloroisopropyl)ether	75		64		40-140	16		50
Bis(2-chloroethoxy)methane	73		61		40-117	18		50
Hexachlorobutadiene	72		55		40-140	27		50
Hexachlorocyclopentadiene	77		57		40-140	30		50
Hexachloroethane	75		54		40-140	33		50
Isophorone	71		62		40-140	14		50
Naphthalene	70		60		40-140	15		50
Nitrobenzene	69		58		40-140	17		50
NDPA/DPA	74		68		36-157	8		50
n-Nitrosodi-n-propylamine	72		60		32-121	18		50
Bis(2-ethylhexyl)phthalate	71		65		40-140	9		50
Butyl benzyl phthalate	80		69		40-140	15		50
Di-n-butylphthalate	74		69		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,08,11 Batch: WG1564479-2 WG1564479-3								
Di-n-octylphthalate	71		64		40-140	10		50
Diethyl phthalate	72		65		40-140	10		50
Dimethyl phthalate	77		68		40-140	12		50
Benzo(a)anthracene	71		65		40-140	9		50
Benzo(a)pyrene	65		63		40-140	3		50
Benzo(b)fluoranthene	71		66		40-140	7		50
Benzo(k)fluoranthene	76		72		40-140	5		50
Chrysene	72		67		40-140	7		50
Acenaphthylene	73		62		40-140	16		50
Anthracene	74		68		40-140	8		50
Benzo(ghi)perylene	74		71		40-140	4		50
Fluorene	74		65		40-140	13		50
Phenanthrene	72		66		40-140	9		50
Dibenzo(a,h)anthracene	78		74		40-140	5		50
Indeno(1,2,3-cd)pyrene	78		74		40-140	5		50
Pyrene	79		69		35-142	14		50
Biphenyl	77		65		37-127	17		50
4-Chloroaniline	49		59		40-140	19		50
2-Nitroaniline	78		67		47-134	15		50
3-Nitroaniline	62		63		26-129	2		50
4-Nitroaniline	74		68		41-125	8		50
Dibenzofuran	73		64		40-140	13		50
2-Methylnaphthalene	74		61		40-140	19		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,08,11 Batch: WG1564479-2 WG1564479-3								
1,2,4,5-Tetrachlorobenzene	79		61		40-117	26		50
Acetophenone	85		64		14-144	28		50
2,4,6-Trichlorophenol	80		64		30-130	22		50
p-Chloro-m-cresol	76		65		26-103	16		50
2-Chlorophenol	82		63		25-102	26		50
2,4-Dichlorophenol	84		64		30-130	27		50
2,4-Dimethylphenol	73		64		30-130	13		50
2-Nitrophenol	77		62		30-130	22		50
4-Nitrophenol	79		68		11-114	15		50
2,4-Dinitrophenol	53		59		4-130	11		50
4,6-Dinitro-o-cresol	74		69		10-130	7		50
Pentachlorophenol	76		74		17-109	3		50
Phenol	77		61		26-90	23		50
2-Methylphenol	88		64		30-130.	32		50
3-Methylphenol/4-Methylphenol	90		65		30-130	32		50
2,4,5-Trichlorophenol	81		66		30-130	20		50
Carbazole	74		68		54-128	8		50
Atrazine	80		76		40-140	5		50
Benzaldehyde	77		58		40-140	28		50
Caprolactam	61		77		15-130	23		50
2,3,4,6-Tetrachlorophenol	77		70		40-140	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,08,11 Batch: WG1564479-2 WG1564479-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	74		62		25-120
Phenol-d6	86		67		10-120
Nitrobenzene-d5	74		60		23-120
2-Fluorobiphenyl	76		61		30-120
2,4,6-Tribromophenol	87		79		10-136
4-Terphenyl-d14	83		76		18-120

PCBS

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-03
Client ID: SB4 (0.5-4')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 09:20
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/27/21 15:34
Analyst: AD
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/26/21 03:03
Cleanup Method: EPA 3665A
Cleanup Date: 10/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	3.36	1	A
Aroclor 1221	ND		ug/kg	37.8	3.79	1	A
Aroclor 1232	ND		ug/kg	37.8	8.01	1	A
Aroclor 1242	ND		ug/kg	37.8	5.09	1	A
Aroclor 1248	ND		ug/kg	37.8	5.67	1	A
Aroclor 1254	ND		ug/kg	37.8	4.13	1	A
Aroclor 1260	ND		ug/kg	37.8	6.98	1	A
Aroclor 1262	ND		ug/kg	37.8	4.80	1	A
Aroclor 1268	6.94	J	ug/kg	37.8	3.91	1	A
PCBs, Total	6.94	J	ug/kg	37.8	3.36	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06
Client ID: SB11 (2.5-5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 11:45
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/27/21 15:42
Analyst: AD
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/26/21 03:03
Cleanup Method: EPA 3665A
Cleanup Date: 10/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	3.24	1	A
Aroclor 1221	ND		ug/kg	36.5	3.66	1	A
Aroclor 1232	ND		ug/kg	36.5	7.74	1	A
Aroclor 1242	ND		ug/kg	36.5	4.92	1	A
Aroclor 1248	ND		ug/kg	36.5	5.48	1	A
Aroclor 1254	ND		ug/kg	36.5	3.99	1	A
Aroclor 1260	ND		ug/kg	36.5	6.74	1	A
Aroclor 1262	ND		ug/kg	36.5	4.64	1	A
Aroclor 1268	ND		ug/kg	36.5	3.78	1	A
PCBs, Total	ND		ug/kg	36.5	3.24	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08
Client ID: SB12 (3.5-4.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/12/21 12:40
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/27/21 15:50
Analyst: AD
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/26/21 03:03
Cleanup Method: EPA 3665A
Cleanup Date: 10/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	3.23	1	A
Aroclor 1221	ND		ug/kg	36.4	3.64	1	A
Aroclor 1232	ND		ug/kg	36.4	7.71	1	A
Aroclor 1242	ND		ug/kg	36.4	4.90	1	A
Aroclor 1248	ND		ug/kg	36.4	5.46	1	A
Aroclor 1254	ND		ug/kg	36.4	3.98	1	A
Aroclor 1260	ND		ug/kg	36.4	6.72	1	A
Aroclor 1262	ND		ug/kg	36.4	4.62	1	A
Aroclor 1268	ND		ug/kg	36.4	3.77	1	A
PCBs, Total	ND		ug/kg	36.4	3.23	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-11
Client ID: SB22 (0.5-3')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY

Date Collected: 10/13/21 12:50
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/27/21 15:58
Analyst: AD
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/26/21 03:03
Cleanup Method: EPA 3665A
Cleanup Date: 10/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	3.17	1	A
Aroclor 1221	ND		ug/kg	35.7	3.57	1	A
Aroclor 1232	ND		ug/kg	35.7	7.56	1	A
Aroclor 1242	ND		ug/kg	35.7	4.81	1	A
Aroclor 1248	ND		ug/kg	35.7	5.35	1	A
Aroclor 1254	ND		ug/kg	35.7	3.90	1	A
Aroclor 1260	ND		ug/kg	35.7	6.59	1	A
Aroclor 1262	ND		ug/kg	35.7	4.53	1	A
Aroclor 1268	ND		ug/kg	35.7	3.70	1	A
PCBs, Total	ND		ug/kg	35.7	3.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/26/21 08:46
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 10/25/21 18:58
Cleanup Method: EPA 3665A
Cleanup Date: 10/26/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/26/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03,06,08,11 Batch: WG1562929-1						
Aroclor 1016	ND		ug/kg	32.8	2.92	A
Aroclor 1221	ND		ug/kg	32.8	3.29	A
Aroclor 1232	ND		ug/kg	32.8	6.96	A
Aroclor 1242	ND		ug/kg	32.8	4.42	A
Aroclor 1248	ND		ug/kg	32.8	4.92	A
Aroclor 1254	ND		ug/kg	32.8	3.59	A
Aroclor 1260	ND		ug/kg	32.8	6.07	A
Aroclor 1262	ND		ug/kg	32.8	4.17	A
Aroclor 1268	ND		ug/kg	32.8	3.40	A
PCBs, Total	ND		ug/kg	32.8	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	69		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA

Project Number: 01306

Lab Number: L2156729

Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03,06,08,11 Batch: WG1562929-2 WG1562929-3									
Aroclor 1016	73		78		40-140	7		50	A
Aroclor 1260	69		74		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		71		30-150	A
Decachlorobiphenyl	66		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		70		30-150	B
Decachlorobiphenyl	59		63		30-150	B

METALS

Project Name: CY2021 MPC PHASE II ESA
Lab Number: L2156729
Project Number: 01306
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-01
Client ID: SB1 (0.5-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/12/21 08:40
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4010		mg/kg	8.71	2.35	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.36	0.331	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Arsenic, Total	16.0		mg/kg	0.871	0.181	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Barium, Total	37.4		mg/kg	0.871	0.152	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Beryllium, Total	0.261	J	mg/kg	0.436	0.029	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.871	0.085	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Calcium, Total	18000		mg/kg	8.71	3.05	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Chromium, Total	17.7		mg/kg	0.871	0.084	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Cobalt, Total	10.0		mg/kg	1.74	0.145	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Copper, Total	23.9		mg/kg	0.871	0.225	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Iron, Total	102000		mg/kg	43.6	7.87	20	10/26/21 05:45	10/26/21 22:36	EPA 3050B	1,6010D	SV
Lead, Total	67.9		mg/kg	4.36	0.233	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Magnesium, Total	4140		mg/kg	8.71	1.34	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Manganese, Total	1440		mg/kg	0.871	0.138	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.072	0.047	1	10/26/21 08:20	10/27/21 09:30	EPA 7471B	1,7471B	AC
Nickel, Total	10.1		mg/kg	2.18	0.211	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Potassium, Total	739		mg/kg	218	12.5	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Selenium, Total	0.575	J	mg/kg	1.74	0.225	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.871	0.246	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Sodium, Total	423		mg/kg	174	2.74	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Thallium, Total	3.12		mg/kg	1.74	0.274	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Vanadium, Total	17.7		mg/kg	0.871	0.177	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV
Zinc, Total	36.9		mg/kg	4.36	0.255	2	10/26/21 05:45	10/26/21 19:01	EPA 3050B	1,6010D	SV

Project Name: CY2021 MPC PHASE II ESA
Lab Number: L2156729
Project Number: 01306
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-02
Client ID: SB3 (0.5-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/12/21 09:10
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2990		mg/kg	8.81	2.38	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.40	0.335	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Arsenic, Total	16.1		mg/kg	0.881	0.183	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Barium, Total	33.1		mg/kg	0.881	0.153	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Beryllium, Total	0.396	J	mg/kg	0.440	0.029	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.881	0.086	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Calcium, Total	5880		mg/kg	8.81	3.08	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Chromium, Total	6.66		mg/kg	0.881	0.085	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Cobalt, Total	5.40		mg/kg	1.76	0.146	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Copper, Total	24.3		mg/kg	0.881	0.227	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Iron, Total	18900		mg/kg	4.40	0.795	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Lead, Total	25.7		mg/kg	4.40	0.236	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Magnesium, Total	698		mg/kg	8.81	1.36	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Manganese, Total	211		mg/kg	0.881	0.140	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Mercury, Total	0.080		mg/kg	0.074	0.048	1	10/26/21 08:20	10/27/21 09:42	EPA 7471B	1,7471B	AC
Nickel, Total	10.3		mg/kg	2.20	0.213	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Potassium, Total	377		mg/kg	220	12.7	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Selenium, Total	0.986	J	mg/kg	1.76	0.227	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.881	0.249	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Sodium, Total	426		mg/kg	176	2.77	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Thallium, Total	0.528	J	mg/kg	1.76	0.277	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Vanadium, Total	8.26		mg/kg	0.881	0.179	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV
Zinc, Total	35.6		mg/kg	4.40	0.258	2	10/26/21 05:45	10/26/21 19:05	EPA 3050B	1,6010D	SV

Project Name: CY2021 MPC PHASE II ESA
Lab Number: L2156729
Project Number: 01306
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-03
Client ID: SB4 (0.5-4')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/12/21 09:20
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3240		mg/kg	9.37	2.53	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.68	0.356	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Arsenic, Total	8.50		mg/kg	0.937	0.195	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Barium, Total	29.5		mg/kg	0.937	0.163	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Beryllium, Total	0.309	J	mg/kg	0.468	0.031	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Cadmium, Total	0.140	J	mg/kg	0.937	0.092	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Calcium, Total	21700		mg/kg	9.37	3.28	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Chromium, Total	6.63		mg/kg	0.937	0.090	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Cobalt, Total	3.88		mg/kg	1.87	0.155	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Copper, Total	20.4		mg/kg	0.937	0.242	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Iron, Total	16300		mg/kg	4.68	0.846	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Lead, Total	65.2		mg/kg	4.68	0.251	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Magnesium, Total	2560		mg/kg	9.37	1.44	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Manganese, Total	262		mg/kg	0.937	0.149	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Mercury, Total	2.39		mg/kg	0.076	0.049	1	10/26/21 08:20	10/27/21 09:45	EPA 7471B	1,7471B	AC
Nickel, Total	8.47		mg/kg	2.34	0.227	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Potassium, Total	274		mg/kg	234	13.5	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Selenium, Total	0.777	J	mg/kg	1.87	0.242	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.937	0.265	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Sodium, Total	74.1	J	mg/kg	187	2.95	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Thallium, Total	0.515	J	mg/kg	1.87	0.295	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Vanadium, Total	9.51		mg/kg	0.937	0.190	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV
Zinc, Total	445		mg/kg	4.68	0.274	2	10/26/21 05:45	10/26/21 19:10	EPA 3050B	1,6010D	SV

Project Name: CY2021 MPC PHASE II ESA
Lab Number: L2156729
Project Number: 01306
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-04
Client ID: SB8 (5-7')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/12/21 10:30
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3380		mg/kg	9.70	2.62	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.85	0.368	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Arsenic, Total	3.07		mg/kg	0.970	0.202	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Barium, Total	24.2		mg/kg	0.970	0.169	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Beryllium, Total	0.136	J	mg/kg	0.485	0.032	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.970	0.095	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Calcium, Total	128000		mg/kg	97.0	33.9	20	10/26/21 05:45	10/26/21 22:40	EPA 3050B	1,6010D	SV
Chromium, Total	5.39		mg/kg	0.970	0.093	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Cobalt, Total	2.02		mg/kg	1.94	0.161	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Copper, Total	3.59		mg/kg	0.970	0.250	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Iron, Total	6070		mg/kg	4.85	0.876	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Lead, Total	7.32		mg/kg	4.85	0.260	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Magnesium, Total	3770		mg/kg	9.70	1.49	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Manganese, Total	175		mg/kg	0.970	0.154	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Mercury, Total	0.246		mg/kg	0.077	0.050	1	10/26/21 08:20	10/27/21 09:49	EPA 7471B	1,7471B	AC
Nickel, Total	3.66		mg/kg	2.42	0.235	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Potassium, Total	456		mg/kg	242	14.0	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.94	0.250	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.970	0.274	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Sodium, Total	115	J	mg/kg	194	3.05	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Thallium, Total	0.533	J	mg/kg	1.94	0.305	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Vanadium, Total	6.81		mg/kg	0.970	0.197	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV
Zinc, Total	25.7		mg/kg	4.85	0.284	2	10/26/21 05:45	10/26/21 19:14	EPA 3050B	1,6010D	SV

Project Name: CY2021 MPC PHASE II ESA
Lab Number: L2156729
Project Number: 01306
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-05
Client ID: SB9 (0.5-3')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/12/21 11:00
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3560		mg/kg	8.96	2.42	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.48	0.340	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Arsenic, Total	6.63		mg/kg	0.896	0.186	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Barium, Total	28.8		mg/kg	0.896	0.156	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Beryllium, Total	0.188	J	mg/kg	0.448	0.030	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.896	0.088	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Calcium, Total	16100		mg/kg	8.96	3.14	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Chromium, Total	7.88		mg/kg	0.896	0.086	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Cobalt, Total	4.52		mg/kg	1.79	0.149	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Copper, Total	13.1		mg/kg	0.896	0.231	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Iron, Total	14500		mg/kg	4.48	0.809	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Lead, Total	23.3		mg/kg	4.48	0.240	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Magnesium, Total	2280		mg/kg	8.96	1.38	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Manganese, Total	214		mg/kg	0.896	0.142	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.072	0.047	1	10/26/21 08:20	10/27/21 09:52	EPA 7471B	1,7471B	AC
Nickel, Total	6.34		mg/kg	2.24	0.217	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Potassium, Total	535		mg/kg	224	12.9	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Selenium, Total	0.314	J	mg/kg	1.79	0.231	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.896	0.253	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Sodium, Total	92.7	J	mg/kg	179	2.82	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Thallium, Total	0.358	J	mg/kg	1.79	0.282	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Vanadium, Total	8.07		mg/kg	0.896	0.182	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV
Zinc, Total	30.2		mg/kg	4.48	0.262	2	10/26/21 05:45	10/26/21 19:18	EPA 3050B	1,6010D	SV

Project Name: CY2021 MPC PHASE II ESA
Lab Number: L2156729
Project Number: 01306
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06
Client ID: SB11 (2.5-5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/12/21 11:45
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5050		mg/kg	8.65	2.34	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.32	0.329	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Arsenic, Total	6.53		mg/kg	0.865	0.180	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Barium, Total	35.7		mg/kg	0.865	0.150	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Beryllium, Total	0.251	J	mg/kg	0.432	0.029	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.865	0.085	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Calcium, Total	22200		mg/kg	8.65	3.03	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Chromium, Total	7.56		mg/kg	0.865	0.083	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Cobalt, Total	3.76		mg/kg	1.73	0.144	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Copper, Total	4.78		mg/kg	0.865	0.223	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Iron, Total	10200		mg/kg	4.32	0.781	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Lead, Total	11.6		mg/kg	4.32	0.232	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Magnesium, Total	3200		mg/kg	8.65	1.33	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Manganese, Total	198		mg/kg	0.865	0.138	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.074	0.048	1	10/26/21 08:20	10/27/21 09:55	EPA 7471B	1,7471B	AC
Nickel, Total	8.26		mg/kg	2.16	0.209	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Potassium, Total	686		mg/kg	216	12.4	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Selenium, Total	0.355	J	mg/kg	1.73	0.223	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.865	0.245	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Sodium, Total	109	J	mg/kg	173	2.72	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.73	0.272	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Vanadium, Total	11.3		mg/kg	0.865	0.176	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV
Zinc, Total	37.4		mg/kg	4.32	0.253	2	10/26/21 05:45	10/26/21 20:26	EPA 3050B	1,6010D	SV

Project Name: CY2021 MPC PHASE II ESA
Lab Number: L2156729
Project Number: 01306
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-07
Client ID: SB12 (2.5-3.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/12/21 12:40
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2580		mg/kg	8.81	2.38	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.40	0.335	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Arsenic, Total	31.9		mg/kg	0.881	0.183	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Barium, Total	83.8		mg/kg	0.881	0.153	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Beryllium, Total	0.194	J	mg/kg	0.440	0.029	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Cadmium, Total	0.158	J	mg/kg	0.881	0.086	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Calcium, Total	5390		mg/kg	8.81	3.08	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Chromium, Total	29.9		mg/kg	0.881	0.085	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Cobalt, Total	12.2		mg/kg	1.76	0.146	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Copper, Total	142		mg/kg	0.881	0.227	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Iron, Total	271000		mg/kg	44.0	7.96	20	10/26/21 05:45	10/26/21 22:44	EPA 3050B	1,6010D	SV
Lead, Total	34.6		mg/kg	4.40	0.236	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Magnesium, Total	575		mg/kg	8.81	1.36	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Manganese, Total	1050		mg/kg	0.881	0.140	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.071	0.046	1	10/26/21 08:20	10/27/21 09:59	EPA 7471B	1,7471B	AC
Nickel, Total	29.6		mg/kg	2.20	0.213	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Potassium, Total	69.1	J	mg/kg	220	12.7	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Selenium, Total	0.440	J	mg/kg	1.76	0.227	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Silver, Total	0.264	J	mg/kg	0.881	0.249	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Sodium, Total	77.0	J	mg/kg	176	2.78	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Thallium, Total	3.42		mg/kg	1.76	0.278	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Vanadium, Total	5.07		mg/kg	0.881	0.179	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV
Zinc, Total	69.8		mg/kg	4.40	0.258	2	10/26/21 05:45	10/26/21 20:30	EPA 3050B	1,6010D	SV

Project Name: CY2021 MPC PHASE II ESA
Lab Number: L2156729
Project Number: 01306
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-10
Client ID: SB21 (1-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/13/21 10:05
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5340		mg/kg	8.78	2.37	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.39	0.334	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Arsenic, Total	4.03		mg/kg	0.878	0.182	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Barium, Total	30.1		mg/kg	0.878	0.153	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Beryllium, Total	0.254	J	mg/kg	0.439	0.029	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.878	0.086	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Calcium, Total	16100		mg/kg	8.78	3.07	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Chromium, Total	6.64		mg/kg	0.878	0.084	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Cobalt, Total	34.3		mg/kg	1.76	0.146	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Copper, Total	5.91		mg/kg	0.878	0.226	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Iron, Total	9590		mg/kg	4.39	0.793	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Lead, Total	27.5		mg/kg	4.39	0.235	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Magnesium, Total	2440		mg/kg	8.78	1.35	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Manganese, Total	313		mg/kg	0.878	0.140	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.072	0.047	1	10/26/21 08:20	10/27/21 10:02	EPA 7471B	1,7471B	AC
Nickel, Total	6.50		mg/kg	2.19	0.212	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Potassium, Total	770		mg/kg	219	12.6	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Selenium, Total	0.254	J	mg/kg	1.76	0.226	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.878	0.248	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Sodium, Total	128	J	mg/kg	176	2.76	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Thallium, Total	0.544	J	mg/kg	1.76	0.276	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Vanadium, Total	11.2		mg/kg	0.878	0.178	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV
Zinc, Total	19.8		mg/kg	4.39	0.257	2	10/26/21 05:45	10/26/21 20:34	EPA 3050B	1,6010D	SV

Project Name: CY2021 MPC PHASE II ESA
Lab Number: L2156729
Project Number: 01306
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-11
Client ID: SB22 (0.5-3')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Date Collected: 10/13/21 12:50
Date Received: 10/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7990		mg/kg	8.62	2.33	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.31	0.328	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Arsenic, Total	5.73		mg/kg	0.862	0.179	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Barium, Total	130		mg/kg	0.862	0.150	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Beryllium, Total	1.11		mg/kg	0.431	0.029	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.862	0.085	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Calcium, Total	180000		mg/kg	86.2	30.2	20	10/26/21 05:45	10/26/21 22:49	EPA 3050B	1,6010D	SV
Chromium, Total	11.2		mg/kg	0.862	0.083	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Cobalt, Total	2.01		mg/kg	1.72	0.143	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Copper, Total	19.9		mg/kg	0.862	0.222	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Iron, Total	17200		mg/kg	4.31	0.779	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Lead, Total	38.1		mg/kg	4.31	0.231	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Magnesium, Total	7350		mg/kg	8.62	1.33	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Manganese, Total	1300		mg/kg	0.862	0.137	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.070	0.046	1	10/26/21 08:20	10/27/21 10:23	EPA 7471B	1,7471B	AC
Nickel, Total	5.60		mg/kg	2.16	0.209	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Potassium, Total	657		mg/kg	216	12.4	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Selenium, Total	1.07	J	mg/kg	1.72	0.222	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.862	0.244	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Sodium, Total	396		mg/kg	172	2.72	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Thallium, Total	1.94		mg/kg	1.72	0.272	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Vanadium, Total	8.90		mg/kg	0.862	0.175	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV
Zinc, Total	50.9		mg/kg	4.31	0.253	2	10/26/21 05:45	10/26/21 20:38	EPA 3050B	1,6010D	SV

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156729

Project Number: 01306 **Report Date:** 10/29/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07,10-11 Batch: WG1560640-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Calcium, Total	1.75	J	mg/kg	4.00	1.40	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Chromium, Total	0.116	J	mg/kg	0.400	0.038	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Iron, Total	0.588	J	mg/kg	2.00	0.361	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Sodium, Total	3.03	J	mg/kg	80.0	1.26	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV
Zinc, Total	0.136	J	mg/kg	2.00	0.117	1	10/26/21 05:45	10/26/21 17:17	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07,10-11 Batch: WG1560641-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/26/21 08:20	10/27/21 08:34	1,7471B	AC

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA

Project Number: 01306

Lab Number: L2156729

Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07,10-11 Batch: WG1560640-2 SRM Lot Number: D109-540								
Aluminum, Total	80		-		50-150	-		
Antimony, Total	142		-		19-250	-		
Arsenic, Total	103		-		70-130	-		
Barium, Total	91		-		75-125	-		
Beryllium, Total	95		-		75-125	-		
Cadmium, Total	98		-		75-125	-		
Calcium, Total	97		-		73-128	-		
Chromium, Total	99		-		70-130	-		
Cobalt, Total	97		-		75-125	-		
Copper, Total	96		-		75-125	-		
Iron, Total	97		-		35-165	-		
Lead, Total	99		-		72-128	-		
Magnesium, Total	91		-		62-138	-		
Manganese, Total	93		-		74-126	-		
Nickel, Total	96		-		70-130	-		
Potassium, Total	90		-		59-141	-		
Selenium, Total	104		-		68-132	-		
Silver, Total	105		-		68-131	-		
Sodium, Total	97		-		35-165	-		
Thallium, Total	97		-		68-131	-		
Vanadium, Total	97		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA

Project Number: 01306

Lab Number: L2156729

Report Date: 10/29/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07,10-11 Batch: WG1560640-2 SRM Lot Number: D109-540					
Zinc, Total	99	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-07,10-11 Batch: WG1560641-2 SRM Lot Number: D109-540					
Mercury, Total	95	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07,10-11 QC Batch ID: WG1560640-3 QC Sample: L2156404-28 Client ID: MS Sample												
Aluminum, Total	3110	263	3590	**182**	Q	-	-		75-125	-		20
Antimony, Total	ND	65.8	61.2	93		-	-		75-125	-		20
Arsenic, Total	65.9	15.8	63.8	**0**	Q	-	-		75-125	-		20
Barium, Total	18.9	263	272	96		-	-		75-125	-		20
Beryllium, Total	0.322J	6.58	6.83	104		-	-		75-125	-		20
Cadmium, Total	ND	6.98	6.64	95		-	-		75-125	-		20
Calcium, Total	1240	1320	2270	78		-	-		75-125	-		20
Chromium, Total	6.44	26.3	32.0	97		-	-		75-125	-		20
Cobalt, Total	39.5	65.8	85.2	**69**	Q	-	-		75-125	-		20
Copper, Total	4.04	32.9	35.3	95		-	-		75-125	-		20
Iron, Total	12700	132	11400	**0**	Q	-	-		75-125	-		20
Lead, Total	9.38	69.8	69.4	86		-	-		75-125	-		20
Magnesium, Total	626	1320	2070	110		-	-		75-125	-		20
Manganese, Total	259	65.8	288	**44**	Q	-	-		75-125	-		20
Nickel, Total	4.11	65.8	63.6	90		-	-		75-125	-		20
Potassium, Total	321	1320	1770	110		-	-		75-125	-		20
Selenium, Total	0.526J	15.8	16.1	102		-	-		75-125	-		20
Silver, Total	ND	39.5	44.4	112		-	-		75-125	-		20
Sodium, Total	56.2J	1320	1470	112		-	-		75-125	-		20
Thallium, Total	0.395J	15.8	14.8	94		-	-		75-125	-		20
Vanadium, Total	4.34	65.8	74.4	106		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07,10-11 QC Batch ID: WG1560640-3 QC Sample: L2156404-28 Client ID: MS Sample									
Zinc, Total	17.6	65.8	78.4	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-07,10-11 QC Batch ID: WG1560641-3 QC Sample: L2156700-01 Client ID: MS Sample									
Mercury, Total	ND	0.194	0.188	97	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306

Lab Number: L2156729
Report Date: 10/29/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07,10-11 QC Batch ID: WG1560640-4 QC Sample: L2156404-28 Client ID: DUP Sample						
Arsenic, Total	65.9	54.3	mg/kg	19		20
Total Metals - Mansfield Lab Associated sample(s): 01-07,10-11 QC Batch ID: WG1560641-4 QC Sample: L2156700-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-01
Client ID: SB1 (0.5-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/12/21 08:40
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-02
Client ID: SB3 (0.5-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/12/21 09:10
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-03
Client ID: SB4 (0.5-4')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/12/21 09:20
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-04
Client ID: SB8 (5-7')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/12/21 10:30
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-05
Client ID: SB9 (0.5-3')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/12/21 11:00
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-06
Client ID: SB11 (2.5-5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/12/21 11:45
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-07
Client ID: SB12 (2.5-3.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/12/21 12:40
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-08
Client ID: SB12 (3.5-4.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/12/21 12:40
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-09
Client ID: SB19 (0.5-3')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/13/21 09:10
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-10
Client ID: SB21 (1-1.5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/13/21 10:05
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-11
Client ID: SB22 (0.5-3')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/13/21 12:50
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156729
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2156729-12
Client ID: SB23 (4.5-5')
Sample Location: 1803 ELMWOOD AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/13/21 13:25
Date Received: 10/15/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	10/19/21 11:44	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA

Project Number: 01306

Lab Number: L2156729

Report Date: 10/29/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1560380-1 QC Sample: L2156729-01 Client ID: SB1 (0.5-1.5')						
Solids, Total	88.1	89.8	%	2		20

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306

Lab Number: L2156729
Report Date: 10/29/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156729-01A	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2156729-01B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7)
L2156729-02A	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-02B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2156729-02C	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7)
L2156729-02X	Vial MeOH preserved split	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-02Y	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-02Z	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-03A	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-03B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2156729-03C	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2156729-03D	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2156729-03X	Vial MeOH preserved split	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-03Y	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-03Z	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-04A	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156729-04B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2156729-04C	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7)
L2156729-04X	Vial MeOH preserved split	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-04Y	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-04Z	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-05A	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-05B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2156729-05C	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7)
L2156729-05X	Vial MeOH preserved split	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-05Y	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-05Z	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-06A	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-06B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2156729-06C	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2156729-06D	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2156729-06X	Vial MeOH preserved split	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-06Y	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-06Z	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-07A	Glass 60ml unpreserved split	A	NA		5.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156729-07B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		TS(7)
L2156729-08A	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-08B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2156729-08C	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2156729-08X	Vial MeOH preserved split	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-08Y	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-08Z	Vial Water preserved split	A	NA		5.8	Y	Absent	**22-OCT-21 08:43**	NYTCL-8260-R2(14)
L2156729-09A	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2156729-09X	Vial MeOH preserved split	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-09Y	Vial Water preserved split	A	NA		5.8	Y	Absent	**23-OCT-21 07:29**	NYTCL-8260-R2(14)
L2156729-09Z	Vial Water preserved split	A	NA		5.8	Y	Absent	**23-OCT-21 07:29**	NYTCL-8260-R2(14)
L2156729-10A	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-10B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2156729-10C	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7)
L2156729-10X	Vial MeOH preserved split	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-10Y	Vial Water preserved split	A	NA		5.8	Y	Absent	**23-OCT-21 07:29**	NYTCL-8260-R2(14)
L2156729-10Z	Vial Water preserved split	A	NA		5.8	Y	Absent	**23-OCT-21 07:29**	NYTCL-8260-R2(14)
L2156729-11A	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2156729-11B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2156729-11C	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2156729-12A	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2156729-12X	Vial MeOH preserved split	A	NA		5.8	Y	Absent		NYTCL-8260-R2(14)
L2156729-12Y	Vial Water preserved split	A	NA		5.8	Y	Absent	**23-OCT-21 07:29**	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306

Lab Number: L2156729
Report Date: 10/29/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156729-12Z	Vial Water preserved split	A	NA		5.8	Y	Absent	**23-OCT-21 07:29**	NYTCL-8260-R2(14)

Container Comments

L2156729-02C	Labeled as collected 12-OCT-21 09:20.

*Values in parentheses indicate holding time in days

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156729
Project Number:	01306	**Report Date:**	10/29/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156729
Project Number:	01306	**Report Date:**	10/29/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156729
Project Number:	01306	**Report Date:**	10/29/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156729
Project Number:	01306	**Report Date:**	10/29/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 10/16/21

ALPHA Job #: L2156729

Project Information

Project Name: CY2021 MPC Phase II ESA
Project Location: 1803 ELMWOOD AVE., BUFFALO NY
Project # 01306
(Use Project name as Project #) ☐
Project Manager: Mark Hanna
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information

Client: Environmental Advantage Inc
Address: 3636 N. Buffalo Rd.
Orchard Park NY 14127
Phone: (716) 667-3130
Fax: (716) 667-3156
Email: mhanna@envadvantage.com

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO # 01306

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please also email results to mszustak@envadvantage.com

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL	SVOCs 8270 TCL ABN	TAL Metals	T. PCBs					Sample Specific Comments	Total Bottles
56729-01	SB1(0.5-1.5')	10/12/21	8:40AM	SOIL	EB		X	X							2
-02	SB3(0.5-1.5')	10/12/21	9:10 AM	SOIL	EB	X	X	X							3
-03	SB4(0.5-4')	10/12/21	9:20AM	SOIL	EB	X	X	X	X						4
-04	SB8(5-7')	10/12/21	10:30AM	SOIL	EB	X	X	X							3
-05	SB9(0.5-3')	10/12/21	11:00AM	SOIL	EB	X	X	X							3
-06	SB11(2.5-5')	10/12/21	11:45AM	SOIL	EB	X	X	X	X						4
-07	SB12(2.5-3.5')	10/12/21	12:40PM	SOIL	EB			X							1
-08	SB12(3.5-4.5')	10/12/21	12:40PM	SOIL	EB	X	X		X						3
-09	SB19(0.5-8')	10/13/21	9:10AM	SOIL	EB	X									1
-10	SB21(1-1.5')	10/13/21	10:05AM	SOIL	EB	X	X	X							3
					Container Type	A	A	A	A						
					Preservative	A	A	A	A						

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/15/21 1645	[signature] AAL	10/15/21 1645
[signature] AAL	10/15/21 1718	[signature]	10/16/21 01:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 10/16/21

ALPHA Job #: L2156729

Client Information

Client: Environmental Advantage, Inc.
Address: 3136 N Buffalo Rd
Orchard Park NY 14127
Phone: (716) 667-3130
Fax: (716) 667-3156
Email: mhanna@envadvantage.com

Project Information

Project Name: CY2021 MPC Phase II ESA
Project Location: 1813 ELMWOOD AVE. BUFFALO NY
Project # 013016
(Use Project name as Project #) ☐
Project Manager: Mark Hanna
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO # 01306

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please also email results to mszustak@envadvantage.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL	SVOCs 8270 TCL ABN	TAL METALS	T. PCBs	Total Bottle	Sample Specific Comments
56729-11	SB 22 (0.5-3')	10/13/21	12:50PM	SOIL	EB		X	X	X	3	
-12	SB 23 (4.5-5')	10/13/21	1:25PM	SOIL	EB	X				1	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	A	A					
Preservative	A	A	A	A					

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] AAL	10/15/21 16:45	[signature] AAL	10/15/21 16:45
[signature] AAL	10/15/21 17:15	[signature]	10/16/21 01:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

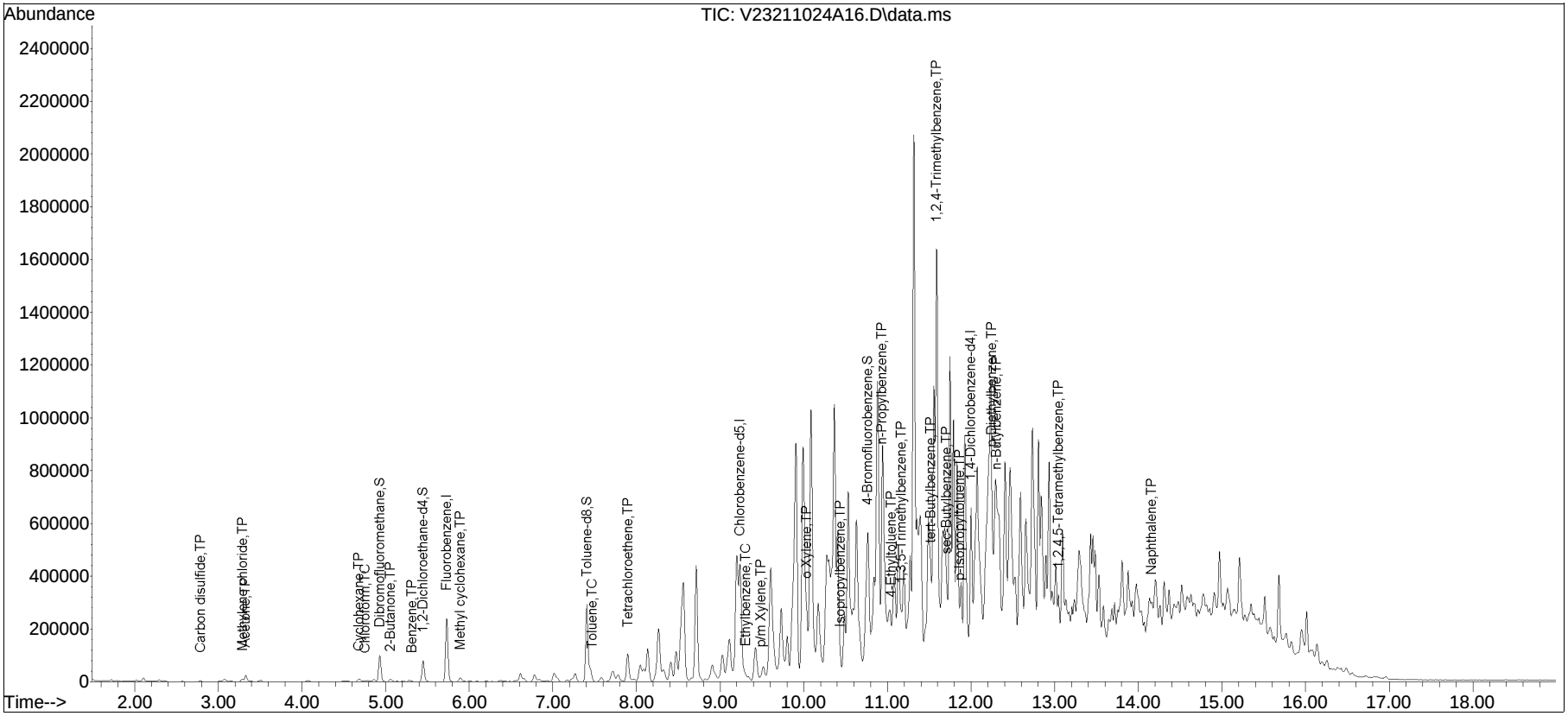
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211024A\
Data File : V23211024A16.D
Acq On : 24 Oct 2021 07:49 pm
Operator : VOA123:JC
Sample : L2156729-08,31,5.27,5,,Y
Misc : WG1562619,ICAL18401
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 25 06:31:41 2021
Quant Method : I:\VOLATILES\VOA123\2021\211024A\V123_211020N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 21 08:44:24 2021
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox4A\V23211024A01.D•



ANALYTICAL REPORT

Lab Number:	L2156981
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	CY2021 MPC PHASE II ESA
Project Number:	01306
Report Date:	10/25/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306

Lab Number: L2156981
Report Date: 10/25/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2156981-01	SB22(0.5-3')	SOIL	1803 ELMWOOD AVE. BUFFALO, NY	10/13/21 12:50	10/18/21
L2156981-02	SB16(0.5-1.5')	SOIL	1803 ELMWOOD AVE. BUFFALO, NY	10/12/21 14:10	10/18/21

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156981
Project Number:	01306	**Report Date:**	10/25/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156981
Project Number:	01306	**Report Date:**	10/25/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Sebastian Corbin

Title: Technical Director/Representative Date: 10/25/21

ORGANICS

VOLATILES

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156981

Project Number: 01306 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156981-01 Date Collected: 10/13/21 12:50
Client ID: SB22(0.5-3') Date Received: 10/18/21
Sample Location: 1803 ELMWOOD AVE. BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/22/21 18:26
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.18	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156981

Project Number: 01306 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156981-01 Date Collected: 10/13/21 12:50

Client ID: SB22(0.5-3') Date Received: 10/18/21

Sample Location: 1803 ELMWOOD AVE. BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	24		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	89	39.	1
Freon-113	ND		ug/kg	4.4	0.77	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156981

Project Number: 01306 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156981-02 Date Collected: 10/12/21 14:10
Client ID: SB16(0.5-1.5') Date Received: 10/18/21
Sample Location: 1803 ELMWOOD AVE. BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/22/21 18:52
Analyst: NLK
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.20	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	0.24	J	ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156981

Project Number: 01306 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156981-02 Date Collected: 10/12/21 14:10

Client ID: SB16(0.5-1.5') Date Received: 10/18/21

Sample Location: 1803 ELMWOOD AVE. BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	35		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	88	39.	1
Freon-113	ND		ug/kg	4.4	0.77	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	102		70-130

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156981

Project Number: 01306 **Report Date:** 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/22/21 10:37
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1562243-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.15	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: CY2021 MPC PHASE II ESA **Lab Number:** L2156981

Project Number: 01306 **Report Date:** 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/22/21 10:37
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1562243-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	0.20	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156981
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/22/21 10:37
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1562243-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306

Lab Number: L2156981
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1562243-3 WG1562243-4								
Methylene chloride	104		102		70-130	2		30
1,1-Dichloroethane	127		128		70-130	1		30
Chloroform	104		104		70-130	0		30
Carbon tetrachloride	112		110		70-130	2		30
1,2-Dichloropropane	130		129		70-130	1		30
Dibromochloromethane	109		106		70-130	3		30
1,1,2-Trichloroethane	103		100		70-130	3		30
Tetrachloroethene	105		102		70-130	3		30
Chlorobenzene	99		98		70-130	1		30
Trichlorofluoromethane	101		98		70-139	3		30
1,2-Dichloroethane	119		116		70-130	3		30
1,1,1-Trichloroethane	110		109		70-130	1		30
Bromodichloromethane	107		107		70-130	0		30
trans-1,3-Dichloropropene	103		101		70-130	2		30
cis-1,3-Dichloropropene	117		114		70-130	3		30
Bromoform	106		105		70-130	1		30
1,1,2,2-Tetrachloroethane	98		96		70-130	2		30
Benzene	109		108		70-130	1		30
Toluene	96		95		70-130	1		30
Ethylbenzene	96		95		70-130	1		30
Chloromethane	**138**	Q	**137**	Q	52-130	1		30
Bromomethane	77		77		57-147	0		30
Vinyl chloride	106		107		67-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156981
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1562243-3 WG1562243-4								
Chloroethane	92		93		50-151	1		30
1,1-Dichloroethene	112		112		65-135	0		30
trans-1,2-Dichloroethene	111		111		70-130	0		30
Trichloroethene	110		108		70-130	2		30
1,2-Dichlorobenzene	102		100		70-130	2		30
1,3-Dichlorobenzene	101		100		70-130	1		30
1,4-Dichlorobenzene	98		97		70-130	1		30
Methyl tert butyl ether	99		96		66-130	3		30
p/m-Xylene	100		99		70-130	1		30
o-Xylene	100		98		70-130	2		30
cis-1,2-Dichloroethene	111		110		70-130	1		30
Styrene	99		98		70-130	1		30
Dichlorodifluoromethane	100		95		30-146	5		30
Acetone	126		124		54-140	2		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	102		99		70-130	3		30
4-Methyl-2-pentanone	124		123		70-130	1		30
2-Hexanone	111		110		70-130	1		30
Bromochloromethane	116		112		70-130	4		30
1,2-Dibromoethane	100		97		70-130	3		30
1,2-Dibromo-3-chloropropane	92		92		68-130	0		30
Isopropylbenzene	95		95		70-130	0		30
1,2,3-Trichlorobenzene	108		105		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA

Project Number: 01306

Lab Number: L2156981

Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1562243-3 WG1562243-4								
1,2,4-Trichlorobenzene	109		106		70-130	3		30
Methyl Acetate	127		124		51-146	2		30
Cyclohexane	139		138		59-142	1		30
1,4-Dioxane	124		114		65-136	8		30
Freon-113	119		117		50-139	2		30
Methyl cyclohexane	110		107		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	90		90		70-130
4-Bromofluorobenzene	92		93		70-130
Dibromofluoromethane	100		100		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156981
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156981-01
Client ID: SB22(0.5-3')
Sample Location: 1803 ELMWOOD AVE. BUFFALO, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/13/21 12:50
Date Received: 10/18/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	10/21/21 14:03	121,2540G	RI

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306
Lab Number: L2156981
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156981-02
Client ID: SB16(0.5-1.5')
Sample Location: 1803 ELMWOOD AVE. BUFFALO, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/12/21 14:10
Date Received: 10/18/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	10/21/21 14:03	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: CY2021 MPC PHASE II ESA

Project Number: 01306

Lab Number: L2156981

Report Date: 10/25/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1561549-1 QC Sample: L2156404-33 Client ID: DUP Sample						
Solids, Total	56.3	60.6	%	7		20

Project Name: CY2021 MPC PHASE II ESA
Project Number: 01306

Lab Number: L2156981
Report Date: 10/25/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156981-01A	Vial Large Septa unpreserved (4oz)	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2156981-01X	Vial MeOH preserved split	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2156981-01Y	Vial Water preserved split	A	NA		4.2	Y	Absent	**20-OCT-21 06:32**	NYTCL-8260-R2(14)
L2156981-01Z	Vial Water preserved split	A	NA		4.2	Y	Absent	**20-OCT-21 06:32**	NYTCL-8260-R2(14)
L2156981-02A	Vial Large Septa unpreserved (4oz)	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2156981-02X	Vial MeOH preserved split	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2156981-02Y	Vial Water preserved split	A	NA		4.2	Y	Absent	**20-OCT-21 06:32**	NYTCL-8260-R2(14)
L2156981-02Z	Vial Water preserved split	A	NA		4.2	Y	Absent	**20-OCT-21 06:32**	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156981
Project Number:	01306	**Report Date:**	10/25/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156981
Project Number:	01306	**Report Date:**	10/25/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156981
Project Number:	01306	**Report Date:**	10/25/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	CY2021 MPC PHASE II ESA	**Lab Number:**	L2156981
Project Number:	01306	**Report Date:**	10/25/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/19/21

ALPHA Job #: L2156981

Client Information

Client: Environmental Advantage Inc.
Address: 3636 N. Buffalo Rd.
Orchard Park NY 14127
Phone: 716-667-3130
Fax: 716-667-3156
Email: mhana@envadvantage.com

Project Information

Project Name: CY2021 MPC Phase II ESA
Project Location: 1803 Elmwood Ave. Buffalo, NY
Project #: 01306
(Use Project name as Project #)
Project Manager: Mark Hana + Mary Szustak
ALPHAQuote #:

Turn-Around Time

Standard: X
Rush (only if pre approved):
Due Date:
of Days:

Deliverables

ASP-A: ASP-B:
EQuIS (1 File): EQuIS (4 File):
Other:

Regulatory Requirement

NY TOGS: NY Part 375
AWQ Standards: NY CP-51
NY Restricted Use: Other
NY Unrestricted Use
NYC Sewer Discharge

Billing Information

X Same as Client Info
PO # 01306

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ: NY:
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Additionally please email results to MSzustak@envadvantage.com

Please specify Metals or TAL.

ANALYSIS

VOC 8260 TCL

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260 TCL	Sample Specific Comments	Total Bottle
56981-01	SB 22 (0.5-3')	10/13/21	12:50pm	Soil	EB	X		1
-02	SB 16 (0.5-1.5')	10/12/21	2:10pm	Soil	EB	X		1

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A
Preservative	A

Relinquished By:	Date/Time	Received By:	Date/Time
	10/18/21 1510	AMC	10/18/21 1510
AMC	10/18/21 1545		10/19/21 00:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2221374
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	PH. II ESA (APRIL 2022)
Project Number:	01306
Report Date:	05/10/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2221374-01	SB37 (0.5-3')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 08:50	04/25/22
L2221374-02	SB4A (0.5-2.5')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 09:20	04/25/22
L2221374-03	SB36 (1-2')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 10:00	04/25/22
L2221374-04	SB7A (3-5')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 10:30	04/25/22
L2221374-05	SB38 (10-13')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 14:55	04/25/22
L2221374-06	SB8A (2.5-4.5')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 11:00	04/25/22
L2221374-07	SB30 (1.5-3')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 11:15	04/25/22
L2221374-08	SB32 (0.5-2')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 12:30	04/25/22
L2221374-09	SB33 (3.5-4.5')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 13:30	04/25/22
L2221374-10	SB34 (2-3')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 13:45	04/25/22
L2221374-11	SB34 (3-4')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 13:45	04/25/22
L2221374-12	SB40 (1.5-3.5')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 15:05	04/25/22
L2221374-13	SB33 (0.5-3.5')	SOIL	MOD-PAC CORP. (O'CONNELL)	04/21/22 13:30	04/25/22

Project Name:	PH. II ESA (APRIL 2022)	**Lab Number:**	L2221374
Project Number:	01306	**Report Date:**	05/10/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PH. II ESA (APRIL 2022)	**Lab Number:**	L2221374
Project Number:	01306	**Report Date:**	05/10/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2221374-01 -03, -04, -09, -11, and -12: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Total Metals

L2221374-02, -03, -04, -07, -08, -10, -12 and -13: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

L2221374-06: The sample has elevated detection limits for all elements due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 05/10/22

ORGANICS

VOLATILES

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-01
Client ID: SB37 (0.5-3')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 08:50
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/02/22 23:02
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	0.19	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	0.16	J	ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	0.15	J	ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	0.84		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-01 Date Collected: 04/21/22 08:50

Client ID: SB37 (0.5-3') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	0.30	J	ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	100		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	0.33	J	ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	0.48	J	ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.95	1
Cyclohexane	ND		ug/kg	10	0.54	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	0.95	J	ug/kg	4.0	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	109		70-130

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-03
Client ID: SB36 (1-2')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 10:00
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/03/22 00:42
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	67	9.7	1
Chloroform	ND		ug/kg	100	9.4	1
Carbon tetrachloride	ND		ug/kg	67	15.	1
1,2-Dichloropropane	ND		ug/kg	67	8.4	1
Dibromochloromethane	ND		ug/kg	67	9.4	1
1,1,2-Trichloroethane	ND		ug/kg	67	18.	1
Tetrachloroethene	ND		ug/kg	33	13.	1
Chlorobenzene	ND		ug/kg	33	8.5	1
Trichlorofluoromethane	ND		ug/kg	270	46.	1
1,2-Dichloroethane	ND		ug/kg	67	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.3	1
trans-1,3-Dichloropropene	ND		ug/kg	67	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
Bromoform	ND		ug/kg	270	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	ND		ug/kg	33	11.	1
Toluene	82		ug/kg	67	36.	1
Ethylbenzene	16	J	ug/kg	67	9.4	1
Chloromethane	ND		ug/kg	270	62.	1
Bromomethane	ND		ug/kg	130	39.	1
Vinyl chloride	ND		ug/kg	67	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	67	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.2	1
Trichloroethene	22	J	ug/kg	33	9.2	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.6	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-03 Date Collected: 04/21/22 10:00

Client ID: SB36 (1-2') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	130	9.9	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	72	J	ug/kg	130	38.	1
o-Xylene	37	J	ug/kg	67	19.	1
cis-1,2-Dichloroethene	ND		ug/kg	67	12.	1
Styrene	ND		ug/kg	67	13.	1
Dichlorodifluoromethane	ND		ug/kg	670	61.	1
Acetone	ND		ug/kg	670	320	1
Carbon disulfide	ND		ug/kg	670	300	1
2-Butanone	ND		ug/kg	670	150	1
4-Methyl-2-pentanone	ND		ug/kg	670	86.	1
2-Hexanone	ND		ug/kg	670	79.	1
1,2-Dibromoethane	ND		ug/kg	67	19.	1
n-Butylbenzene	ND		ug/kg	67	11.	1
sec-Butylbenzene	ND		ug/kg	67	9.8	1
tert-Butylbenzene	ND		ug/kg	130	7.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	67.	1
Isopropylbenzene	ND		ug/kg	67	7.3	1
p-Isopropyltoluene	100		ug/kg	67	7.3	1
Naphthalene	8000		ug/kg	270	44.	1
n-Propylbenzene	ND		ug/kg	67	11.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	68	J	ug/kg	130	13.	1
1,2,4-Trimethylbenzene	130		ug/kg	130	22.	1
Methyl Acetate	ND		ug/kg	270	64.	1
Cyclohexane	36	J	ug/kg	670	36.	1
Freon-113	ND		ug/kg	270	46.	1
Methyl cyclohexane	79	J	ug/kg	270	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-04
Client ID: SB7A (3-5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 10:30
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/02/22 23:27
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	40		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-04 Date Collected: 04/21/22 10:30

Client ID: SB7A (3-5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	6.3	J	ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.74	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
Freon-113	ND		ug/kg	4.6	0.79	1
Methyl cyclohexane	ND		ug/kg	4.6	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	108		70-130

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-09
Client ID: SB33 (3.5-4.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 13:30
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/02/22 23:52
Analyst: JC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	0.26	J	ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	0.20	J	ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.77	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	0.95		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-09 Date Collected: 04/21/22 13:30

Client ID: SB33 (3.5-4.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.27	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
Methyl Acetate	ND		ug/kg	5.3	1.2	1
Cyclohexane	ND		ug/kg	13	0.72	1
Freon-113	ND		ug/kg	5.3	0.92	1
Methyl cyclohexane	ND		ug/kg	5.3	0.80	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-11 Date Collected: 04/21/22 13:45

Client ID: SB34 (3-4') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 05/03/22 00:17

Analyst: JC

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.17	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	0.62		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	0.90	J	ug/kg	1.6	0.15	1
Trichloroethene	230		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-11 Date Collected: 04/21/22 13:45

Client ID: SB34 (3-4') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	34		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	40		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	1.1	J	ug/kg	11	0.59	1
Freon-113	ND		ug/kg	4.4	0.76	1
Methyl cyclohexane	ND		ug/kg	4.4	0.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	105		70-130

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-12
Client ID: SB40 (1.5-3.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 15:05
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/02/22 21:05
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.7	0.87	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.94	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	48		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-12 Date Collected: 04/21/22 15:05

Client ID: SB40 (1.5-3.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	ND		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	ND		ug/kg	9.4	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.7	0.61	1
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
Methyl Acetate	ND		ug/kg	3.7	0.89	1
Cyclohexane	ND		ug/kg	9.4	0.51	1
Freon-113	ND		ug/kg	3.7	0.65	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	98		70-130

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/22 19:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,04,09,11 Batch: WG1634172-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.83	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/22 19:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,04,09,11 Batch: WG1634172-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/22 19:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,04,09,11 Batch: WG1634172-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/22 19:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1634176-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	42	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/22 19:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1634176-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
1,2-Dibromoethane	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/22 19:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1634176-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/22 20:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1634255-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	0.57	J	ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/22 20:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1634255-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/22 20:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1634255-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)

Project Number: 01306

Lab Number: L2221374

Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04,09,11 Batch: WG1634172-3 WG1634172-4								
Methylene chloride	92		90		70-130	2		30
1,1-Dichloroethane	113		110		70-130	3		30
Chloroform	95		91		70-130	4		30
Carbon tetrachloride	111		109		70-130	2		30
1,2-Dichloropropane	116		118		70-130	2		30
Dibromochloromethane	99		102		70-130	3		30
1,1,2-Trichloroethane	89		93		70-130	4		30
Tetrachloroethene	106		103		70-130	3		30
Chlorobenzene	103		102		70-130	1		30
Trichlorofluoromethane	117		112		70-139	4		30
1,2-Dichloroethane	113		113		70-130	0		30
1,1,1-Trichloroethane	99		97		70-130	2		30
Bromodichloromethane	92		93		70-130	1		30
trans-1,3-Dichloropropene	98		102		70-130	4		30
cis-1,3-Dichloropropene	101		104		70-130	3		30
Bromoform	89		94		70-130	5		30
1,1,2,2-Tetrachloroethane	92		99		70-130	7		30
Benzene	97		94		70-130	3		30
Toluene	100		96		70-130	4		30
Ethylbenzene	101		97		70-130	4		30
Chloromethane	102		99		52-130	3		30
Bromomethane	122		119		57-147	2		30
Vinyl chloride	110		106		67-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04,09,11 Batch: WG1634172-3 WG1634172-4								
Chloroethane	114		108		50-151	5		30
1,1-Dichloroethene	98		94		65-135	4		30
trans-1,2-Dichloroethene	97		93		70-130	4		30
Trichloroethene	100		97		70-130	3		30
1,2-Dichlorobenzene	105		104		70-130	1		30
1,3-Dichlorobenzene	111		106		70-130	5		30
1,4-Dichlorobenzene	107		106		70-130	1		30
Methyl tert butyl ether	87		93		66-130	7		30
p/m-Xylene	107		103		70-130	4		30
o-Xylene	106		103		70-130	3		30
cis-1,2-Dichloroethene	93		92		70-130	1		30
Styrene	100		97		70-130	3		30
Dichlorodifluoromethane	56		54		30-146	4		30
Acetone	115		127		54-140	10		30
Carbon disulfide	82		80		59-130	2		30
2-Butanone	106		125		70-130	16		30
4-Methyl-2-pentanone	128		**144**	Q	70-130	12		30
2-Hexanone	112		126		70-130	12		30
1,2-Dibromoethane	101		106		70-130	5		30
n-Butylbenzene	116		110		70-130	5		30
sec-Butylbenzene	118		111		70-130	6		30
tert-Butylbenzene	117		112		70-130	4		30
1,2-Dibromo-3-chloropropane	89		101		68-130	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)

Project Number: 01306

Lab Number: L2221374

Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04,09,11 Batch: WG1634172-3 WG1634172-4								
Isopropylbenzene	116		111		70-130	4		30
p-Isopropyltoluene	118		112		70-130	5		30
Naphthalene	96		102		70-130	6		30
n-Propylbenzene	113		107		70-130	5		30
1,2,4-Trichlorobenzene	105		105		70-130	0		30
1,3,5-Trimethylbenzene	114		109		70-130	4		30
1,2,4-Trimethylbenzene	113		109		70-130	4		30
Methyl Acetate	102		114		51-146	11		30
Cyclohexane	142		137		59-142	4		30
Freon-113	116		113		50-139	3		30
Methyl cyclohexane	106		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		111		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	106		104		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1634176-3 WG1634176-4								
Methylene chloride	92		90		70-130	2		30
1,1-Dichloroethane	113		110		70-130	3		30
Chloroform	95		91		70-130	4		30
Carbon tetrachloride	111		109		70-130	2		30
1,2-Dichloropropane	116		118		70-130	2		30
Dibromochloromethane	99		102		70-130	3		30
1,1,2-Trichloroethane	89		93		70-130	4		30
Tetrachloroethene	106		103		70-130	3		30
Chlorobenzene	103		102		70-130	1		30
Trichlorofluoromethane	117		112		70-139	4		30
1,2-Dichloroethane	113		113		70-130	0		30
1,1,1-Trichloroethane	99		97		70-130	2		30
Bromodichloromethane	92		93		70-130	1		30
trans-1,3-Dichloropropene	98		102		70-130	4		30
cis-1,3-Dichloropropene	101		104		70-130	3		30
Bromoform	89		94		70-130	5		30
1,1,2,2-Tetrachloroethane	92		99		70-130	7		30
Benzene	97		94		70-130	3		30
Toluene	100		96		70-130	4		30
Ethylbenzene	101		97		70-130	4		30
Chloromethane	102		99		52-130	3		30
Bromomethane	122		119		57-147	2		30
Vinyl chloride	110		106		67-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1634176-3 WG1634176-4								
Chloroethane	114		108		50-151	5		30
1,1-Dichloroethene	98		94		65-135	4		30
trans-1,2-Dichloroethene	97		93		70-130	4		30
Trichloroethene	100		97		70-130	3		30
1,2-Dichlorobenzene	105		104		70-130	1		30
1,3-Dichlorobenzene	111		106		70-130	5		30
1,4-Dichlorobenzene	107		106		70-130	1		30
Methyl tert butyl ether	87		93		66-130	7		30
p/m-Xylene	107		103		70-130	4		30
o-Xylene	106		103		70-130	3		30
cis-1,2-Dichloroethene	93		92		70-130	1		30
Styrene	100		97		70-130	3		30
Dichlorodifluoromethane	56		54		30-146	4		30
Acetone	115		127		54-140	10		30
Carbon disulfide	82		80		59-130	2		30
2-Butanone	106		125		70-130	16		30
4-Methyl-2-pentanone	128		**144**	Q	70-130	12		30
2-Hexanone	112		126		70-130	12		30
1,2-Dibromoethane	101		106		70-130	5		30
n-Butylbenzene	116		110		70-130	5		30
sec-Butylbenzene	118		111		70-130	6		30
tert-Butylbenzene	117		112		70-130	4		30
1,2-Dibromo-3-chloropropane	89		101		68-130	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1634176-3 WG1634176-4								
Isopropylbenzene	116		111		70-130	4		30
p-Isopropyltoluene	118		112		70-130	5		30
Naphthalene	96		102		70-130	6		30
n-Propylbenzene	113		107		70-130	5		30
1,2,4-Trichlorobenzene	105		105		70-130	0		30
1,3,5-Trimethylbenzene	114		109		70-130	4		30
1,2,4-Trimethylbenzene	113		109		70-130	4		30
Methyl Acetate	102		114		51-146	11		30
Cyclohexane	142		137		59-142	4		30
Freon-113	116		113		50-139	3		30
Methyl cyclohexane	106		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		110		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	106		104		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1634255-3 WG1634255-4								
Methylene chloride	99		101		70-130	2		30
1,1-Dichloroethane	104		105		70-130	1		30
Chloroform	100		102		70-130	2		30
Carbon tetrachloride	111		113		70-130	2		30
1,2-Dichloropropane	103		106		70-130	3		30
Dibromochloromethane	104		111		70-130	7		30
1,1,2-Trichloroethane	97		103		70-130	6		30
Tetrachloroethene	112		112		70-130	0		30
Chlorobenzene	105		108		70-130	3		30
Trichlorofluoromethane	109		110		70-139	1		30
1,2-Dichloroethane	92		97		70-130	5		30
1,1,1-Trichloroethane	109		111		70-130	2		30
Bromodichloromethane	101		105		70-130	4		30
trans-1,3-Dichloropropene	103		108		70-130	5		30
cis-1,3-Dichloropropene	110		114		70-130	4		30
Bromoform	101		110		70-130	9		30
1,1,2,2-Tetrachloroethane	95		101		70-130	6		30
Benzene	108		109		70-130	1		30
Toluene	104		105		70-130	1		30
Ethylbenzene	110		110		70-130	0		30
Chloromethane	92		88		52-130	4		30
Bromomethane	102		101		57-147	1		30
Vinyl chloride	100		99		67-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1634255-3 WG1634255-4								
Chloroethane	107		107		50-151	0		30
1,1-Dichloroethene	112		114		65-135	2		30
trans-1,2-Dichloroethene	110		110		70-130	0		30
Trichloroethene	110		111		70-130	1		30
1,2-Dichlorobenzene	103		105		70-130	2		30
1,3-Dichlorobenzene	107		107		70-130	0		30
1,4-Dichlorobenzene	106		106		70-130	0		30
Methyl tert butyl ether	94		100		66-130	6		30
p/m-Xylene	111		112		70-130	1		30
o-Xylene	112		112		70-130	0		30
cis-1,2-Dichloroethene	106		109		70-130	3		30
Styrene	110		112		70-130	2		30
Dichlorodifluoromethane	68		68		30-146	0		30
Acetone	91		104		54-140	13		30
Carbon disulfide	101		102		59-130	1		30
2-Butanone	91		104		70-130	13		30
4-Methyl-2-pentanone	97		108		70-130	11		30
2-Hexanone	91		104		70-130	13		30
1,2-Dibromoethane	98		106		70-130	8		30
n-Butylbenzene	111		110		70-130	1		30
sec-Butylbenzene	117		115		70-130	2		30
tert-Butylbenzene	116		115		70-130	1		30
1,2-Dibromo-3-chloropropane	95		108		68-130	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)

Project Number: 01306

Lab Number: L2221374

Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1634255-3 WG1634255-4								
Isopropylbenzene	115		114		70-130	1		30
p-Isopropyltoluene	116		115		70-130	1		30
Naphthalene	110		118		70-130	7		30
n-Propylbenzene	114		112		70-130	2		30
1,2,4-Trichlorobenzene	116		117		70-130	1		30
1,3,5-Trimethylbenzene	114		113		70-130	1		30
1,2,4-Trimethylbenzene	114		112		70-130	2		30
Methyl Acetate	86		95		51-146	10		30
Cyclohexane	117		117		59-142	0		30
Freon-113	112		112		50-139	0		30
Methyl cyclohexane	117		118		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		90		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	97		98		70-130

SEMIVOLATILES

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-02
Client ID: SB4A (0.5-2.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 09:20
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/10/22 10:52
Analyst: IM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	84	J	ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	1300		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	250		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	920		ug/kg	120	22.	1
Benzo(a)pyrene	1000		ug/kg	150	47.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-02 Date Collected: 04/21/22 09:20

Client ID: SB4A (0.5-2.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	1500		ug/kg	120	32.	1
Benzo(k)fluoranthene	460		ug/kg	120	31.	1
Chrysene	1200		ug/kg	120	20.	1
Acenaphthylene	98	J	ug/kg	150	30.	1
Anthracene	360		ug/kg	120	38.	1
Benzo(ghi)perylene	640		ug/kg	150	23.	1
Fluorene	120	J	ug/kg	190	19.	1
Phenanthrene	980		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	220		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	730		ug/kg	150	27.	1
Pyrene	1100		ug/kg	120	19.	1
Biphenyl	25	J	ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	110	J	ug/kg	190	18.	1
2-Methylnaphthalene	300		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	160	J	ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	52.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-02 Date Collected: 04/21/22 09:20

Client ID: SB4A (0.5-2.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	50		10-136
4-Terphenyl-d14	42		18-120

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-03
Client ID: SB36 (1-2')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 10:00
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/28/22 03:49
Analyst: ALS
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	12000	E	ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	20000	E	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	15000	E	ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	6300		ug/kg	120	22.	1
Benzo(a)pyrene	4200		ug/kg	150	47.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-03 Date Collected: 04/21/22 10:00

Client ID: SB36 (1-2') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	6200		ug/kg	120	33.	1
Benzo(k)fluoranthene	2000		ug/kg	120	31.	1
Chrysene	6400		ug/kg	120	20.	1
Acenaphthylene	2500		ug/kg	150	30.	1
Anthracene	7500		ug/kg	120	38.	1
Benzo(ghi)perylene	1500		ug/kg	150	23.	1
Fluorene	13000	E	ug/kg	190	19.	1
Phenanthrene	24000	E	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	600		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	2000		ug/kg	150	27.	1
Pyrene	17000	E	ug/kg	120	19.	1
Biphenyl	2000		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	10000	E	ug/kg	190	18.	1
2-Methylnaphthalene	14000	E	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	120	J	ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	43.	1
Phenol	980		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	98	J	ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	2500		ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	68.	1
Benzaldehyde	ND		ug/kg	260	52.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-03 Date Collected: 04/21/22 10:00

Client ID: SB36 (1-2') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	59.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	89		18-120

Project Name: PH. II ESA (APRIL 2022)
Lab Number: L2221374
Project Number: 01306
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-03 D
Client ID: SB36 (1-2')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 10:00
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/10/22 07:20
Analyst: IM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	13000		ug/kg	3100	400	20
Fluoranthene	26000		ug/kg	2300	440	20
Naphthalene	19000		ug/kg	3900	470	20
Fluorene	15000		ug/kg	3900	380	20
Phenanthrene	34000		ug/kg	2300	470	20
Pyrene	19000		ug/kg	2300	380	20
Dibenzofuran	13000		ug/kg	3900	370	20
2-Methylnaphthalene	14000		ug/kg	4600	470	20

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-04
Client ID: SB7A (3-5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 10:30
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/28/22 02:41
Analyst: ALS
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	390		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	3900		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	480		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	1500		ug/kg	120	22.	1
Benzo(a)pyrene	1500		ug/kg	160	48.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-04 Date Collected: 04/21/22 10:30

Client ID: SB7A (3-5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	1700		ug/kg	120	33.	1
Benzo(k)fluoranthene	660		ug/kg	120	32.	1
Chrysene	1400		ug/kg	120	20.	1
Acenaphthylene	52	J	ug/kg	160	30.	1
Anthracene	790		ug/kg	120	38.	1
Benzo(ghi)perylene	830		ug/kg	160	23.	1
Fluorene	510		ug/kg	200	19.	1
Phenanthrene	3400		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	210		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	960		ug/kg	160	28.	1
Pyrene	3000		ug/kg	120	20.	1
Biphenyl	65	J	ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	340		ug/kg	200	19.	1
2-Methylnaphthalene	280		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	490		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	69.	1
Benzaldehyde	ND		ug/kg	260	53.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-04 Date Collected: 04/21/22 10:30

Client ID: SB7A (3-5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	60		18-120

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-05
Client ID: SB38 (10-13')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 14:55
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/28/22 04:34
Analyst: ALS
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	62	J	ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	230	22.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	60.	1
2,4-Dinitrotoluene	ND		ug/kg	230	45.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	600		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	23.	1
Hexachlorobutadiene	ND		ug/kg	230	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	200	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	100	J	ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	200	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	78.	1
Butyl benzyl phthalate	ND		ug/kg	230	57.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	77.	1
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	280		ug/kg	140	26.	1
Benzo(a)pyrene	400		ug/kg	180	55.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-05 Date Collected: 04/21/22 14:55

Client ID: SB38 (10-13') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	380		ug/kg	140	38.	1
Benzo(k)fluoranthene	130	J	ug/kg	140	36.	1
Chrysene	330		ug/kg	140	24.	1
Acenaphthylene	55	J	ug/kg	180	35.	1
Anthracene	120	J	ug/kg	140	44.	1
Benzo(ghi)perylene	360		ug/kg	180	27.	1
Fluorene	71	J	ug/kg	230	22.	1
Phenanthrene	440		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	94	J	ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	310		ug/kg	180	32.	1
Pyrene	610		ug/kg	140	22.	1
Biphenyl	ND		ug/kg	520	29.	1
4-Chloroaniline	ND		ug/kg	230	41.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	94.	1
Dibenzofuran	41	J	ug/kg	230	21.	1
2-Methylnaphthalene	96	J	ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	230	75.	1
2-Nitrophenol	ND		ug/kg	490	85.	1
4-Nitrophenol	ND		ug/kg	320	92.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	230	34.	1
2-Methylphenol	ND		ug/kg	230	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	330	36.	1
2,4,5-Trichlorophenol	ND		ug/kg	230	43.	1
Carbazole	69	J	ug/kg	230	22.	1
Atrazine	ND		ug/kg	180	79.	1
Benzaldehyde	ND		ug/kg	300	61.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-05 Date Collected: 04/21/22 14:55

Client ID: SB38 (10-13') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	230	69.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	230	46.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	107		30-120
2,4,6-Tribromophenol	**145**	Q	10-136
4-Terphenyl-d14	98		18-120

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-06
Client ID: SB8A (2.5-4.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 11:00
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/28/22 04:11
Analyst: ALS
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	4000		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	24000	E	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	2200		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	14000	E	ug/kg	120	22.	1
Benzo(a)pyrene	14000	E	ug/kg	160	48.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-06 Date Collected: 04/21/22 11:00

Client ID: SB8A (2.5-4.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	17000	E	ug/kg	120	33.	1
Benzo(k)fluoranthene	5500		ug/kg	120	31.	1
Chrysene	12000	E	ug/kg	120	20.	1
Acenaphthylene	270		ug/kg	160	30.	1
Anthracene	7800		ug/kg	120	38.	1
Benzo(ghi)perylene	7100		ug/kg	160	23.	1
Fluorene	4500		ug/kg	200	19.	1
Phenanthrene	22000	E	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	2000		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	8300	E	ug/kg	160	27.	1
Pyrene	22000	E	ug/kg	120	19.	1
Biphenyl	350	J	ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	3100		ug/kg	200	18.	1
2-Methylnaphthalene	1200		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	66	J	ug/kg	200	30.	1
2-Methylphenol	37	J	ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	140	J	ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Carbazole	4900		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	68.	1
Benzaldehyde	ND		ug/kg	260	53.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-06 Date Collected: 04/21/22 11:00

Client ID: SB8A (2.5-4.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	59.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	72		18-120

Project Name: PH. II ESA (APRIL 2022)
Lab Number: L2221374
Project Number: 01306
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-06 D
Client ID: SB8A (2.5-4.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 11:00
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/10/22 08:07
Analyst: IM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	81000		ug/kg	2300	450	20
Benzo(a)anthracene	33000		ug/kg	2300	440	20
Benzo(a)pyrene	32000		ug/kg	3100	950	20
Benzo(b)fluoranthene	37000		ug/kg	2300	660	20
Chrysene	28000		ug/kg	2300	410	20
Phenanthrene	67000		ug/kg	2300	480	20
Indeno(1,2,3-cd)pyrene	22000		ug/kg	3100	540	20
Pyrene	65000		ug/kg	2300	390	20

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-07
Client ID: SB30 (1.5-3')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 11:15
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/28/22 01:56
Analyst: ALS
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	110	J	ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	1200		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	200		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	530		ug/kg	110	21.	1
Benzo(a)pyrene	480		ug/kg	150	46.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-07 Date Collected: 04/21/22 11:15

Client ID: SB30 (1.5-3') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	590		ug/kg	110	32.	1
Benzo(k)fluoranthene	200		ug/kg	110	30.	1
Chrysene	610		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	230		ug/kg	110	37.	1
Benzo(ghi)perylene	270		ug/kg	150	22.	1
Fluorene	110	J	ug/kg	190	18.	1
Phenanthrene	1100		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	80	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	300		ug/kg	150	26.	1
Pyrene	970		ug/kg	110	19.	1
Biphenyl	29	J	ug/kg	430	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	110	J	ug/kg	190	18.	1
2-Methylnaphthalene	210	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	36	J	ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	90	J	ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	51.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-07 Date Collected: 04/21/22 11:15

Client ID: SB30 (1.5-3') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	116		23-120
2-Fluorobiphenyl	109		30-120
2,4,6-Tribromophenol	130		10-136
4-Terphenyl-d14	94		18-120

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-08
Client ID: SB32 (0.5-2')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 12:30
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/29/22 07:56
Analyst: ALS
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	42	J	ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	11000	E	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	460		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	7400		ug/kg	120	23.	1
Benzo(a)pyrene	6600		ug/kg	160	49.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-08 Date Collected: 04/21/22 12:30

Client ID: SB32 (0.5-2') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	11000	E	ug/kg	120	34.	1
Benzo(k)fluoranthene	2400		ug/kg	120	32.	1
Chrysene	6900		ug/kg	120	21.	1
Acenaphthylene	1800		ug/kg	160	31.	1
Anthracene	2000		ug/kg	120	39.	1
Benzo(ghi)perylene	3800		ug/kg	160	24.	1
Fluorene	90	J	ug/kg	200	20.	1
Phenanthrene	910		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	1000		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	5000		ug/kg	160	28.	1
Pyrene	12000	E	ug/kg	120	20.	1
Biphenyl	29	J	ug/kg	460	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	120	J	ug/kg	200	19.	1
2-Methylnaphthalene	380		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	180	J	ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	49	J	ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	100	J	ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-08 Date Collected: 04/21/22 12:30

Client ID: SB32 (0.5-2') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	65		18-120

Project Name: PH. II ESA (APRIL 2022)
Lab Number: L2221374
Project Number: 01306
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-08 D
Client ID: SB32 (0.5-2')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 12:30
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/10/22 07:44
Analyst: IM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	10000		ug/kg	1200	230	10
Benzo(b)fluoranthene	11000		ug/kg	1200	340	10
Pyrene	11000		ug/kg	1200	200	10

Project Name: PH. II ESA (APRIL 2022)
Lab Number: L2221374
Project Number: 01306
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-09
Client ID: SB33 (3.5-4.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 13:30
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/29/22 21:59
Analyst: EK
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	24.	1
Hexachlorobenzene	ND		ug/kg	140	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	31.	1
2-Chloronaphthalene	ND		ug/kg	230	23.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	61.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	ND		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	25.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Hexachlorobutadiene	ND		ug/kg	230	34.	1
Hexachlorocyclopentadiene	ND		ug/kg	660	210	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	210	30.	1
Naphthalene	ND		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	210	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	36.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	80.	1
Butyl benzyl phthalate	ND		ug/kg	230	58.	1
Di-n-butylphthalate	ND		ug/kg	230	44.	1
Di-n-octylphthalate	ND		ug/kg	230	78.	1
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	ND		ug/kg	140	26.	1
Benzo(a)pyrene	ND		ug/kg	180	56.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-09 Date Collected: 04/21/22 13:30

Client ID: SB33 (3.5-4.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	140	39.	1
Benzo(k)fluoranthene	ND		ug/kg	140	37.	1
Chrysene	ND		ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	180	36.	1
Anthracene	ND		ug/kg	140	45.	1
Benzo(ghi)perylene	ND		ug/kg	180	27.	1
Fluorene	ND		ug/kg	230	22.	1
Phenanthrene	ND		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	32.	1
Pyrene	ND		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	520	30.	1
4-Chloroaniline	ND		ug/kg	230	42.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	95.	1
Dibenzofuran	ND		ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	280	28.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	44.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	210	37.	1
2,4-Dimethylphenol	ND		ug/kg	230	76.	1
2-Nitrophenol	ND		ug/kg	500	86.	1
4-Nitrophenol	ND		ug/kg	320	94.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	600	110	1
Pentachlorophenol	ND		ug/kg	180	51.	1
Phenol	ND		ug/kg	230	35.	1
2-Methylphenol	ND		ug/kg	230	36.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	330	36.	1
2,4,5-Trichlorophenol	ND		ug/kg	230	44.	1
Carbazole	ND		ug/kg	230	22.	1
Atrazine	ND		ug/kg	180	80.	1
Benzaldehyde	ND		ug/kg	300	62.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-09 Date Collected: 04/21/22 13:30

Client ID: SB33 (3.5-4.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	230	70.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	230	46.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	46		18-120

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-11
Client ID: SB34 (3-4')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 13:45
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/29/22 22:23
Analyst: EK
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	230		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	87	J	ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	130		ug/kg	120	23.	1
Benzo(a)pyrene	97	J	ug/kg	160	50.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-11 Date Collected: 04/21/22 13:45

Client ID: SB34 (3-4') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	180		ug/kg	120	34.	1
Benzo(k)fluoranthene	45	J	ug/kg	120	33.	1
Chrysene	310		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	86	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	200		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	79	J	ug/kg	160	28.	1
Pyrene	230		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	26.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	28	J	ug/kg	200	19.	1
2-Methylnaphthalene	77	J	ug/kg	240	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Carbazole	ND		ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	72.	1
Benzaldehyde	ND		ug/kg	270	55.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-11 Date Collected: 04/21/22 13:45

Client ID: SB34 (3-4') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	62.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	54		18-120

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-12
Client ID: SB40 (1.5-3.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 15:05
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/29/22 22:48
Analyst: EK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 04/27/22 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	96	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	100	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	66	J	ug/kg	110	20.	1
Benzo(a)pyrene	47	J	ug/kg	140	44.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-12 Date Collected: 04/21/22 15:05

Client ID: SB40 (1.5-3.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	64	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	64	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	33	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	100	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	34	J	ug/kg	140	25.	1
Pyrene	84	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	26	J	ug/kg	180	17.	1
2-Methylnaphthalene	100	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	140	63.	1
Benzaldehyde	ND		ug/kg	240	49.	1

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-12 Date Collected: 04/21/22 15:05

Client ID: SB40 (1.5-3.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	56		18-120

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/27/22 02:30
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/26/22 18:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-09,11-12 Batch: WG1631323-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/27/22 02:30
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/26/22 18:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-09,11-12 Batch: WG1631323-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/27/22 02:30
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/26/22 18:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-09,11-12 Batch: WG1631323-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	67		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-09,11-12 Batch: WG1631323-2 WG1631323-3								
Acenaphthene	68		48		31-137	34		50
Hexachlorobenzene	74		55		40-140	29		50
Bis(2-chloroethyl)ether	58		45		40-140	25		50
2-Chloronaphthalene	68		49		40-140	32		50
3,3'-Dichlorobenzidine	60		43		40-140	33		50
2,4-Dinitrotoluene	73		55		40-132	28		50
2,6-Dinitrotoluene	72		56		40-140	25		50
Fluoranthene	66		49		40-140	30		50
4-Chlorophenyl phenyl ether	68		48		40-140	34		50
4-Bromophenyl phenyl ether	72		54		40-140	29		50
Bis(2-chloroisopropyl)ether	42		**33**	Q	40-140	24		50
Bis(2-chloroethoxy)methane	62		47		40-117	28		50
Hexachlorobutadiene	81		60		40-140	30		50
Hexachlorocyclopentadiene	67		50		40-140	29		50
Hexachloroethane	66		53		40-140	22		50
Isophorone	62		46		40-140	30		50
Naphthalene	65		49		40-140	28		50
Nitrobenzene	67		50		40-140	29		50
NDPA/DPA	70		49		36-157	35		50
n-Nitrosodi-n-propylamine	61		46		32-121	28		50
Bis(2-ethylhexyl)phthalate	82		59		40-140	33		50
Butyl benzyl phthalate	76		55		40-140	32		50
Di-n-butylphthalate	78		57		40-140	31		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-09,11-12 Batch: WG1631323-2 WG1631323-3								
Di-n-octylphthalate	82		57		40-140	36		50
Diethyl phthalate	80		57		40-140	34		50
Dimethyl phthalate	75		53		40-140	34		50
Benzo(a)anthracene	66		46		40-140	36		50
Benzo(a)pyrene	66		46		40-140	36		50
Benzo(b)fluoranthene	68		48		40-140	34		50
Benzo(k)fluoranthene	63		45		40-140	33		50
Chrysene	65		45		40-140	36		50
Acenaphthylene	68		50		40-140	31		50
Anthracene	66		47		40-140	34		50
Benzo(ghi)perylene	67		46		40-140	37		50
Fluorene	70		50		40-140	33		50
Phenanthrene	65		47		40-140	32		50
Dibenzo(a,h)anthracene	69		47		40-140	38		50
Indeno(1,2,3-cd)pyrene	77		52		40-140	39		50
Pyrene	65		48		35-142	30		50
Biphenyl	65		49		37-127	28		50
4-Chloroaniline	75		59		40-140	24		50
2-Nitroaniline	70		51		47-134	31		50
3-Nitroaniline	64		48		26-129	29		50
4-Nitroaniline	64		46		41-125	33		50
Dibenzofuran	71		49		40-140	37		50
2-Methylnaphthalene	67		51		40-140	27		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-09,11-12 Batch: WG1631323-2 WG1631323-3								
1,2,4,5-Tetrachlorobenzene	72		55		40-117	27		50
Acetophenone	63		50		14-144	23		50
2,4,6-Trichlorophenol	74		54		30-130	31		50
p-Chloro-m-cresol	78		59		26-103	28		50
2-Chlorophenol	67		52		25-102	25		50
2,4-Dichlorophenol	70		52		30-130	30		50
2,4-Dimethylphenol	69		54		30-130	24		50
2-Nitrophenol	62		49		30-130	23		50
4-Nitrophenol	77		56		11-114	32		50
2,4-Dinitrophenol	46		33		4-130	33		50
4,6-Dinitro-o-cresol	61		46		10-130	28		50
Pentachlorophenol	64		46		17-109	33		50
Phenol	63		48		26-90	27		50
2-Methylphenol	65		50		30-130.	26		50
3-Methylphenol/4-Methylphenol	70		53		30-130	28		50
2,4,5-Trichlorophenol	74		55		30-130	29		50
Carbazole	64		**47**	Q	54-128	31		50
Atrazine	68		49		40-140	32		50
Benzaldehyde	62		50		40-140	21		50
Caprolactam	61		45		15-130	30		50
2,3,4,6-Tetrachlorophenol	77		54		40-140	35		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)

Project Number: 01306

Lab Number: L2221374

Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-09,11-12 Batch: WG1631323-2 WG1631323-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		51		25-120
Phenol-d6	66		49		10-120
Nitrobenzene-d5	63		53		23-120
2-Fluorobiphenyl	68		51		30-120
2,4,6-Tribromophenol	81		59		10-136
4-Terphenyl-d14	65		47		18-120

PCBS

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-05
Client ID: SB38 (10-13')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 14:55
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/22 13:54
Analyst: WR
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 05/03/22 18:02
Cleanup Method: EPA 3665A
Cleanup Date: 05/04/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.7	3.88	1	A
Aroclor 1221	ND		ug/kg	43.7	4.37	1	A
Aroclor 1232	ND		ug/kg	43.7	9.26	1	A
Aroclor 1242	ND		ug/kg	43.7	5.88	1	A
Aroclor 1248	ND		ug/kg	43.7	6.55	1	A
Aroclor 1254	13.0	J	ug/kg	43.7	4.78	1	A
Aroclor 1260	ND		ug/kg	43.7	8.07	1	A
Aroclor 1262	ND		ug/kg	43.7	5.54	1	A
Aroclor 1268	ND		ug/kg	43.7	4.52	1	A
PCBs, Total	13.0	J	ug/kg	43.7	3.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: PH. II ESA (APRIL 2022)
Lab Number: L2221374
Project Number: 01306
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-08
Client ID: SB32 (0.5-2')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 12:30
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/22 14:07
Analyst: WR
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 05/03/22 18:02
Cleanup Method: EPA 3665A
Cleanup Date: 05/04/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.0	3.55	1	A
Aroclor 1221	ND		ug/kg	40.0	4.01	1	A
Aroclor 1232	ND		ug/kg	40.0	8.48	1	A
Aroclor 1242	ND		ug/kg	40.0	5.40	1	A
Aroclor 1248	ND		ug/kg	40.0	6.00	1	A
Aroclor 1254	ND		ug/kg	40.0	4.38	1	A
Aroclor 1260	ND		ug/kg	40.0	7.40	1	A
Aroclor 1262	ND		ug/kg	40.0	5.08	1	A
Aroclor 1268	ND		ug/kg	40.0	4.15	1	A
PCBs, Total	ND		ug/kg	40.0	3.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: PH. II ESA (APRIL 2022)
Lab Number: L2221374
Project Number: 01306
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-10
Client ID: SB34 (2-3')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 13:45
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/22 14:20
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/03/22 18:02
Cleanup Method: EPA 3665A
Cleanup Date: 05/04/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	3.26	1	A
Aroclor 1221	ND		ug/kg	36.7	3.68	1	A
Aroclor 1232	ND		ug/kg	36.7	7.79	1	A
Aroclor 1242	ND		ug/kg	36.7	4.95	1	A
Aroclor 1248	ND		ug/kg	36.7	5.51	1	A
Aroclor 1254	ND		ug/kg	36.7	4.02	1	A
Aroclor 1260	ND		ug/kg	36.7	6.79	1	A
Aroclor 1262	ND		ug/kg	36.7	4.66	1	A
Aroclor 1268	ND		ug/kg	36.7	3.80	1	A
PCBs, Total	ND		ug/kg	36.7	3.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: PH. II ESA (APRIL 2022)
Lab Number: L2221374
Project Number: 01306
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-12
Client ID: SB40 (1.5-3.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)

Date Collected: 04/21/22 15:05
Date Received: 04/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/22 14:33
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/03/22 18:02
Cleanup Method: EPA 3665A
Cleanup Date: 05/04/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	3.18	1	A
Aroclor 1221	ND		ug/kg	35.8	3.58	1	A
Aroclor 1232	ND		ug/kg	35.8	7.58	1	A
Aroclor 1242	ND		ug/kg	35.8	4.82	1	A
Aroclor 1248	ND		ug/kg	35.8	5.37	1	A
Aroclor 1254	ND		ug/kg	35.8	3.91	1	A
Aroclor 1260	ND		ug/kg	35.8	6.61	1	A
Aroclor 1262	ND		ug/kg	35.8	4.54	1	A
Aroclor 1268	ND		ug/kg	35.8	3.71	1	A
PCBs, Total	ND		ug/kg	35.8	3.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/04/22 11:33
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 05/03/22 18:02
Cleanup Method: EPA 3665A
Cleanup Date: 05/04/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05,08,10,12 Batch: WG1633978-1						
Aroclor 1016	ND		ug/kg	32.5	2.88	A
Aroclor 1221	ND		ug/kg	32.5	3.25	A
Aroclor 1232	ND		ug/kg	32.5	6.88	A
Aroclor 1242	ND		ug/kg	32.5	4.38	A
Aroclor 1248	ND		ug/kg	32.5	4.87	A
Aroclor 1254	ND		ug/kg	32.5	3.55	A
Aroclor 1260	ND		ug/kg	32.5	6.00	A
Aroclor 1262	ND		ug/kg	32.5	4.12	A
Aroclor 1268	ND		ug/kg	32.5	3.36	A
PCBs, Total	ND		ug/kg	32.5	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)

Project Number: 01306

Lab Number: L2221374

Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05,08,10,12 Batch: WG1633978-2 WG1633978-3									
Aroclor 1016	120		124		40-140	3		50	A
Aroclor 1260	119		123		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		104		30-150	A
Decachlorobiphenyl	94		98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		108		30-150	B
Decachlorobiphenyl	96		101		30-150	B

METALS

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-02 Date Collected: 04/21/22 09:20

Client ID: SB4A (0.5-2.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1960		mg/kg	8.86	2.39	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Antimony, Total	1.58	J	mg/kg	4.43	0.336	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Arsenic, Total	9.92		mg/kg	0.886	0.184	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Barium, Total	30.9		mg/kg	0.886	0.154	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Beryllium, Total	0.221	J	mg/kg	0.443	0.029	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Cadmium, Total	0.336	J	mg/kg	0.886	0.087	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Calcium, Total	108000		mg/kg	44.3	15.5	10	05/08/22 06:00	05/09/22 16:10	EPA 3050B	1,6010D	SB
Chromium, Total	4.52		mg/kg	0.886	0.085	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Cobalt, Total	2.98		mg/kg	1.77	0.147	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Copper, Total	26.2		mg/kg	0.886	0.228	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Iron, Total	12300		mg/kg	4.43	0.800	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Lead, Total	20.4		mg/kg	4.43	0.237	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Magnesium, Total	2460		mg/kg	8.86	1.36	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Manganese, Total	160		mg/kg	0.886	0.141	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Mercury, Total	0.094		mg/kg	0.074	0.048	1	05/08/22 07:00	05/09/22 11:01	EPA 7471B	1,7471B	DMB
Nickel, Total	7.59		mg/kg	2.21	0.214	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Potassium, Total	200	J	mg/kg	221	12.8	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Selenium, Total	ND		mg/kg	1.77	0.228	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.886	0.251	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Sodium, Total	67.0	J	mg/kg	177	2.79	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.77	0.279	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Vanadium, Total	8.27		mg/kg	0.886	0.180	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB
Zinc, Total	109		mg/kg	4.43	0.260	2	05/08/22 06:00	05/09/22 13:31	EPA 3050B	1,6010D	SB

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-03 Date Collected: 04/21/22 10:00

Client ID: SB36 (1-2') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4430		mg/kg	9.25	2.50	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Antimony, Total	3.76	J	mg/kg	4.63	0.352	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Arsenic, Total	9.22		mg/kg	0.925	0.192	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Barium, Total	40.0		mg/kg	0.925	0.161	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Beryllium, Total	0.518		mg/kg	0.463	0.031	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Cadmium, Total	0.453	J	mg/kg	0.925	0.091	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Calcium, Total	4880		mg/kg	9.25	3.24	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Chromium, Total	8.14		mg/kg	0.925	0.089	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Cobalt, Total	4.76		mg/kg	1.85	0.154	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Copper, Total	94.6		mg/kg	0.925	0.239	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Iron, Total	19400		mg/kg	4.63	0.836	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Lead, Total	46.2		mg/kg	4.63	0.248	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Magnesium, Total	1020		mg/kg	9.25	1.42	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Manganese, Total	250		mg/kg	0.925	0.147	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Mercury, Total	ND		mg/kg	0.075	0.049	1	05/08/22 07:00	05/09/22 11:04	EPA 7471B	1,7471B	DMB
Nickel, Total	11.8		mg/kg	2.31	0.224	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Potassium, Total	562		mg/kg	231	13.3	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Selenium, Total	0.796	J	mg/kg	1.85	0.239	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.925	0.262	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Sodium, Total	206		mg/kg	185	2.91	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.85	0.291	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Vanadium, Total	12.7		mg/kg	0.925	0.188	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB
Zinc, Total	40.8		mg/kg	4.63	0.271	2	05/08/22 06:00	05/09/22 13:37	EPA 3050B	1,6010D	SB

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-04 Date Collected: 04/21/22 10:30

Client ID: SB7A (3-5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6440		mg/kg	9.41	2.54	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Antimony, Total	1.66	J	mg/kg	4.70	0.358	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Arsenic, Total	9.32		mg/kg	0.941	0.196	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Barium, Total	60.3		mg/kg	0.941	0.164	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Beryllium, Total	0.376	J	mg/kg	0.470	0.031	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Cadmium, Total	0.969		mg/kg	0.941	0.092	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Calcium, Total	13800		mg/kg	9.41	3.29	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Chromium, Total	13.1		mg/kg	0.941	0.090	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Cobalt, Total	6.13		mg/kg	1.88	0.156	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Copper, Total	22.8		mg/kg	0.941	0.243	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Iron, Total	37700		mg/kg	4.70	0.850	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Lead, Total	122		mg/kg	4.70	0.252	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Magnesium, Total	1660		mg/kg	9.41	1.45	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Manganese, Total	1100		mg/kg	0.941	0.150	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Mercury, Total	0.121		mg/kg	0.077	0.050	1	05/08/22 07:00	05/09/22 11:08	EPA 7471B	1,7471B	DMB
Nickel, Total	11.0		mg/kg	2.35	0.228	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Potassium, Total	428		mg/kg	235	13.5	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Selenium, Total	1.06	J	mg/kg	1.88	0.243	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.941	0.266	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Sodium, Total	129	J	mg/kg	188	2.96	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.88	0.296	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Vanadium, Total	27.9		mg/kg	0.941	0.191	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB
Zinc, Total	176		mg/kg	4.70	0.276	2	05/08/22 06:00	05/09/22 13:42	EPA 3050B	1,6010D	SB

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-06 Date Collected: 04/21/22 11:00

Client ID: SB8A (2.5-4.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4590		mg/kg	8.85	2.39	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Antimony, Total	1.15	J	mg/kg	4.43	0.336	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Arsenic, Total	7.50		mg/kg	0.885	0.184	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Barium, Total	55.9		mg/kg	0.885	0.154	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Beryllium, Total	0.292	J	mg/kg	0.443	0.029	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Cadmium, Total	0.823	J	mg/kg	0.885	0.087	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Calcium, Total	29400		mg/kg	8.85	3.10	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Chromium, Total	9.72		mg/kg	0.885	0.085	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Cobalt, Total	3.28		mg/kg	1.77	0.147	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Copper, Total	24.8		mg/kg	0.885	0.228	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Iron, Total	16300		mg/kg	4.43	0.799	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Lead, Total	75.4		mg/kg	4.43	0.237	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Magnesium, Total	3160		mg/kg	8.85	1.36	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Manganese, Total	330		mg/kg	0.885	0.141	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Mercury, Total	16.3		mg/kg	0.748	0.488	10	05/08/22 07:00	05/09/22 11:54	EPA 7471B	1,7471B	DMB
Nickel, Total	8.73		mg/kg	2.21	0.214	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Potassium, Total	430		mg/kg	221	12.7	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Selenium, Total	ND		mg/kg	1.77	0.228	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.885	0.250	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Sodium, Total	101	J	mg/kg	177	2.79	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.77	0.279	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Vanadium, Total	12.9		mg/kg	0.885	0.180	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB
Zinc, Total	293		mg/kg	4.43	0.259	2	05/08/22 06:00	05/09/22 13:47	EPA 3050B	1,6010D	SB

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-07 Date Collected: 04/21/22 11:15

Client ID: SB30 (1.5-3') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4120		mg/kg	8.87	2.39	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Antimony, Total	2.50	J	mg/kg	4.43	0.337	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Arsenic, Total	14.7		mg/kg	0.887	0.184	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Barium, Total	39.8		mg/kg	0.887	0.154	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Beryllium, Total	0.381	J	mg/kg	0.443	0.029	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Cadmium, Total	0.807	J	mg/kg	0.887	0.087	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Calcium, Total	6690		mg/kg	8.87	3.10	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Chromium, Total	14.7		mg/kg	0.887	0.085	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Cobalt, Total	6.15		mg/kg	1.77	0.147	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Copper, Total	20.1		mg/kg	0.887	0.229	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Iron, Total	56600		mg/kg	22.2	4.00	10	05/08/22 06:00	05/09/22 16:15	EPA 3050B	1,6010D	SB
Lead, Total	457		mg/kg	4.43	0.238	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Magnesium, Total	1120		mg/kg	8.87	1.36	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Manganese, Total	558		mg/kg	0.887	0.141	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Mercury, Total	0.052	J	mg/kg	0.074	0.048	1	05/08/22 07:00	05/09/22 11:17	EPA 7471B	1,7471B	DMB
Nickel, Total	16.3		mg/kg	2.22	0.214	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Potassium, Total	392		mg/kg	222	12.8	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Selenium, Total	0.754	J	mg/kg	1.77	0.229	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.887	0.251	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Sodium, Total	92.8	J	mg/kg	177	2.79	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.77	0.279	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Vanadium, Total	29.8		mg/kg	0.887	0.180	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB
Zinc, Total	58.1		mg/kg	4.43	0.260	2	05/08/22 06:00	05/09/22 13:52	EPA 3050B	1,6010D	SB

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-08 Date Collected: 04/21/22 12:30

Client ID: SB32 (0.5-2') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3780		mg/kg	9.29	2.51	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Antimony, Total	3.40	J	mg/kg	4.65	0.353	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Arsenic, Total	12.3		mg/kg	0.929	0.193	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Barium, Total	49.0		mg/kg	0.929	0.162	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Beryllium, Total	0.400	J	mg/kg	0.465	0.031	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Cadmium, Total	0.846	J	mg/kg	0.929	0.091	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Calcium, Total	9530		mg/kg	9.29	3.25	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Chromium, Total	8.34		mg/kg	0.929	0.089	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Cobalt, Total	5.67		mg/kg	1.86	0.154	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Copper, Total	49.6		mg/kg	0.929	0.240	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Iron, Total	36600		mg/kg	4.65	0.839	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Lead, Total	57.4		mg/kg	4.65	0.249	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Magnesium, Total	1780		mg/kg	9.29	1.43	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Manganese, Total	574		mg/kg	0.929	0.148	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Mercury, Total	0.077		mg/kg	0.077	0.050	1	05/08/22 07:00	05/09/22 11:21	EPA 7471B	1,7471B	DMB
Nickel, Total	10.4		mg/kg	2.32	0.225	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Potassium, Total	323		mg/kg	232	13.4	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Selenium, Total	0.576	J	mg/kg	1.86	0.240	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.929	0.263	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Sodium, Total	128	J	mg/kg	186	2.93	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.86	0.293	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Vanadium, Total	16.6		mg/kg	0.929	0.189	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB
Zinc, Total	65.1		mg/kg	4.65	0.272	2	05/08/22 06:00	05/09/22 13:57	EPA 3050B	1,6010D	SB

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-10 Date Collected: 04/21/22 13:45

Client ID: SB34 (2-3') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9390		mg/kg	8.62	2.33	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Antimony, Total	2.42	J	mg/kg	4.31	0.328	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Arsenic, Total	19.5		mg/kg	0.862	0.179	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Barium, Total	128		mg/kg	0.862	0.150	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Beryllium, Total	1.40		mg/kg	0.431	0.029	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Cadmium, Total	0.733	J	mg/kg	0.862	0.085	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Calcium, Total	41500		mg/kg	8.62	3.02	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Chromium, Total	10.8		mg/kg	0.862	0.083	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Cobalt, Total	2.30		mg/kg	1.72	0.143	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Copper, Total	16.9		mg/kg	0.862	0.222	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Iron, Total	33100		mg/kg	4.31	0.779	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Lead, Total	40.6		mg/kg	4.31	0.231	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Magnesium, Total	4370		mg/kg	8.62	1.33	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Manganese, Total	1700		mg/kg	0.862	0.137	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Mercury, Total	0.052	J	mg/kg	0.072	0.047	1	05/08/22 07:00	05/09/22 11:24	EPA 7471B	1,7471B	DMB
Nickel, Total	3.77		mg/kg	2.16	0.209	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Potassium, Total	632		mg/kg	216	12.4	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Selenium, Total	1.33	J	mg/kg	1.72	0.222	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.862	0.244	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Sodium, Total	269		mg/kg	172	2.72	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Thallium, Total	1.17	J	mg/kg	1.72	0.272	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Vanadium, Total	6.63		mg/kg	0.862	0.175	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB
Zinc, Total	58.3		mg/kg	4.31	0.253	2	05/08/22 06:00	05/09/22 14:02	EPA 3050B	1,6010D	SB

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-12 Date Collected: 04/21/22 15:05

Client ID: SB40 (1.5-3.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3620		mg/kg	8.17	2.21	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Antimony, Total	1.85	J	mg/kg	4.09	0.310	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Arsenic, Total	7.40		mg/kg	0.817	0.170	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Barium, Total	34.8		mg/kg	0.817	0.142	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Beryllium, Total	0.172	J	mg/kg	0.409	0.027	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Cadmium, Total	0.768	J	mg/kg	0.817	0.080	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Calcium, Total	16900		mg/kg	8.17	2.86	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Chromium, Total	11.8		mg/kg	0.817	0.078	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Cobalt, Total	4.78		mg/kg	1.63	0.136	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Copper, Total	15.2		mg/kg	0.817	0.211	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Iron, Total	33500		mg/kg	4.09	0.738	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Lead, Total	34.0		mg/kg	4.09	0.219	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Magnesium, Total	1670		mg/kg	8.17	1.26	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Manganese, Total	903		mg/kg	0.817	0.130	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Mercury, Total	0.103		mg/kg	0.068	0.045	1	05/08/22 07:00	05/09/22 11:27	EPA 7471B	1,7471B	DMB
Nickel, Total	8.49		mg/kg	2.04	0.198	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Potassium, Total	403		mg/kg	204	11.8	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Selenium, Total	0.580	J	mg/kg	1.63	0.211	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.817	0.231	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Sodium, Total	218		mg/kg	163	2.57	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.63	0.257	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Vanadium, Total	26.3		mg/kg	0.817	0.166	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB
Zinc, Total	86.5		mg/kg	4.09	0.239	2	05/08/22 06:00	05/09/22 14:07	EPA 3050B	1,6010D	SB

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-13 Date Collected: 04/21/22 13:30

Client ID: SB33 (0.5-3.5') Date Received: 04/25/22

Sample Location: MOD-PAC CORP. (O'CONNELL) Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6670		mg/kg	8.56	2.31	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Antimony, Total	1.61	J	mg/kg	4.28	0.325	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Arsenic, Total	75.4		mg/kg	0.856	0.178	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Barium, Total	86.8		mg/kg	0.856	0.149	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Beryllium, Total	0.916		mg/kg	0.428	0.028	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Cadmium, Total	0.411	J	mg/kg	0.856	0.084	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Calcium, Total	31400		mg/kg	8.56	3.00	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Chromium, Total	5.93		mg/kg	0.856	0.082	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Cobalt, Total	3.48		mg/kg	1.71	0.142	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Copper, Total	12.2		mg/kg	0.856	0.221	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Iron, Total	16800		mg/kg	4.28	0.773	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Lead, Total	20.4		mg/kg	4.28	0.229	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Magnesium, Total	3090		mg/kg	8.56	1.32	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Manganese, Total	959		mg/kg	0.856	0.136	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Mercury, Total	ND		mg/kg	0.071	0.046	1	05/08/22 07:00	05/09/22 11:30	EPA 7471B	1,7471B	DMB
Nickel, Total	6.38		mg/kg	2.14	0.207	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Potassium, Total	535		mg/kg	214	12.3	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Selenium, Total	0.830	J	mg/kg	1.71	0.221	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.856	0.242	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Sodium, Total	360		mg/kg	171	2.70	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.71	0.270	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Vanadium, Total	10.6		mg/kg	0.856	0.174	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB
Zinc, Total	43.8		mg/kg	4.28	0.251	2	05/08/22 06:00	05/09/22 14:12	EPA 3050B	1,6010D	SB

Project Name: PH. II ESA (APRIL 2022) **Lab Number:** L2221374

Project Number: 01306 **Report Date:** 05/10/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-04,06-08,10,12-13 Batch: WG1635790-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Barium, Total	ND		mg/kg	0.400	0.070	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Copper, Total	ND		mg/kg	0.400	0.103	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Iron, Total	ND		mg/kg	2.00	0.361	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Lead, Total	0.540	J	mg/kg	2.00	0.107	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Potassium, Total	ND		mg/kg	100	5.76	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Silver, Total	ND		mg/kg	0.400	0.113	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/08/22 06:00	05/09/22 11:46	1,6010D	SB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-04,06-08,10,12-13 Batch: WG1635791-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/08/22 07:00	05/09/22 10:28	1,7471B	DMB

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)

Project Number: 01306

Lab Number: L2221374

Report Date: 05/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 Batch: WG1635790-2 SRM Lot Number: D113-540								
Aluminum, Total	70		-		51-149	-		
Antimony, Total	153		-		20-250	-		
Arsenic, Total	91		-		70-130	-		
Barium, Total	88		-		75-125	-		
Beryllium, Total	102		-		75-125	-		
Cadmium, Total	88		-		75-125	-		
Calcium, Total	125		-		73-128	-		
Chromium, Total	85		-		70-130	-		
Cobalt, Total	92		-		75-125	-		
Copper, Total	84		-		75-125	-		
Iron, Total	83		-		36-164	-		
Lead, Total	83		-		72-128	-		
Magnesium, Total	83		-		63-138	-		
Manganese, Total	92		-		77-123	-		
Nickel, Total	90		-		70-130	-		
Potassium, Total	79		-		59-141	-		
Selenium, Total	95		-		66-134	-		
Silver, Total	87		-		70-131	-		
Sodium, Total	103		-		35-164	-		
Thallium, Total	91		-		70-130	-		
Vanadium, Total	85		-		74-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)

Project Number: 01306

Lab Number: L2221374

Report Date: 05/10/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 Batch: WG1635790-2 SRM Lot Number: D113-540					
Zinc, Total	87	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 Batch: WG1635791-2 SRM Lot Number: D113-540					
Mercury, Total	91	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 QC Batch ID: WG1635790-3 QC Sample: L2220127-02 Client ID: MS Sample												
Aluminum, Total	4170	199	5310	**573**	Q	-	-		75-125	-		20
Antimony, Total	1.01J	49.7	41.8	84		-	-		75-125	-		20
Arsenic, Total	11.6	11.9	22.4	90		-	-		75-125	-		20
Barium, Total	35.4	199	211	88		-	-		75-125	-		20
Beryllium, Total	0.417J	4.97	5.04	101		-	-		75-125	-		20
Cadmium, Total	0.546J	5.27	4.96	94		-	-		75-125	-		20
Calcium, Total	3730	995	4300	**57**	Q	-	-		75-125	-		20
Chromium, Total	15.5	19.9	35.7	102		-	-		75-125	-		20
Cobalt, Total	3.18	49.7	43.8	82		-	-		75-125	-		20
Copper, Total	15.8	24.9	37.7	88		-	-		75-125	-		20
Iron, Total	21800	99.5	23400	**1610**	Q	-	-		75-125	-		20
Lead, Total	29.7	52.7	97.9	**129**	Q	-	-		75-125	-		20
Magnesium, Total	990	995	2000	102		-	-		75-125	-		20
Manganese, Total	108	49.7	166	117		-	-		75-125	-		20
Nickel, Total	5.38	49.7	46.4	82		-	-		75-125	-		20
Potassium, Total	848	995	1870	103		-	-		75-125	-		20
Selenium, Total	ND	11.9	10.2	85		-	-		75-125	-		20
Silver, Total	ND	29.8	25.9	87		-	-		75-125	-		20
Sodium, Total	119J	995	964	97		-	-		75-125	-		20
Thallium, Total	ND	11.9	9.76	82		-	-		75-125	-		20
Vanadium, Total	31.3	49.7	75.4	89		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 QC Batch ID: WG1635790-3 QC Sample: L2220127-02 Client ID: MS Sample										
Zinc, Total	47.9	49.7	89.2	83		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 QC Batch ID: WG1635791-3 QC Sample: L2220127-02 Client ID: MS Sample										
Mercury, Total	0.068J	0.158	0.375	**237**	Q	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 QC Batch ID: WG1635790-4 QC Sample: L2220127-02 Client ID: DUP Sample						
Aluminum, Total	4170	4660	mg/kg	11		20
Antimony, Total	1.01J	0.902J	mg/kg	NC		20
Arsenic, Total	11.6	10.9	mg/kg	6		20
Barium, Total	35.4	35.4	mg/kg	0		20
Beryllium, Total	0.417J	0.456J	mg/kg	NC		20
Cadmium, Total	0.546J	0.545J	mg/kg	NC		20
Calcium, Total	3730	5030	mg/kg	**30**	Q	20
Chromium, Total	15.5	15.4	mg/kg	1		20
Cobalt, Total	3.18	3.25	mg/kg	2		20
Copper, Total	15.8	15.4	mg/kg	3		20
Iron, Total	21800	21100	mg/kg	3		20
Lead, Total	29.7	33.7	mg/kg	13		20
Magnesium, Total	990	1730	mg/kg	**54**	Q	20
Manganese, Total	108	118	mg/kg	9		20
Nickel, Total	5.38	5.35	mg/kg	1		20
Potassium, Total	848	827	mg/kg	3		20
Selenium, Total	ND	0.337J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	119J	138J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)

Project Number: 01306

Lab Number: L2221374

Report Date: 05/10/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 QC Batch ID: WG1635790-4 QC Sample: L2220127-02 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	31.3	31.8	mg/kg	2	20
Zinc, Total	47.9	45.7	mg/kg	5	20
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 QC Batch ID: WG1635791-4 QC Sample: L2220127-02 Client ID: DUP Sample					
Mercury, Total	0.068J	0.127	mg/kg	NC	20

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2221374
Report Date: 05/10/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04,06-08,10,12-13 QC Batch ID: WG1635790-6 QC Sample: L2220127-02 Client ID: DUP Sample						
Aluminum, Total	4170	4890	mg/kg	17		20
Barium, Total	35.4	41.4	mg/kg	17		20
Calcium, Total	3730	4440	mg/kg	19		20
Iron, Total	21800	26100	mg/kg	20		20
Magnesium, Total	990	1200	mg/kg	**21**	Q	20
Manganese, Total	108	128	mg/kg	19		20
Vanadium, Total	31.3	36.0	mg/kg	15		20

INORGANICS
&
MISCELLANEOUS

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-01
Client ID: SB37 (0.5-3')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 08:50
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.0		%	0.100	NA	1	-	04/29/22 11:42	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-02
Client ID: SB4A (0.5-2.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 09:20
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-03
Client ID: SB36 (1-2')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 10:00
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-04
Client ID: SB7A (3-5')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 10:30
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-05
Client ID: SB38 (10-13')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 14:55
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.8		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-06
Client ID: SB8A (2.5-4.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 11:00
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-07
Client ID: SB30 (1.5-3')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 11:15
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-08
Client ID: SB32 (0.5-2')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 12:30
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-09
Client ID: SB33 (3.5-4.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 13:30
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.5		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-10
Client ID: SB34 (2-3')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 13:45
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-11
Client ID: SB34 (3-4')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 13:45
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-12
Client ID: SB40 (1.5-3.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 15:05
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306
Lab Number: L2221374
Report Date: 05/10/22

SAMPLE RESULTS

Lab ID: L2221374-13
Client ID: SB33 (0.5-3.5')
Sample Location: MOD-PAC CORP. (O'CONNELL)
Sample Depth:
Matrix: Soil

Date Collected: 04/21/22 13:30
Date Received: 04/25/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	04/27/22 09:26	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PH. II ESA (APRIL 2022)

Project Number: 01306

Lab Number: L2221374

Report Date: 05/10/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG1631444-1 QC Sample: L2221374-02 Client ID: SB4A (0.5-2.5')						
Solids, Total	85.4	88.3	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1632385-1 QC Sample: L2222179-01 Client ID: DUP Sample						
Solids, Total	83.8	84.0	%	0		20

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2221374-01A	Vial Large Septa unpreserved (4oz)	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2221374-01X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)
L2221374-01Y	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-01Z	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-02A	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2221374-02B	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L2221374-03A	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2221374-03B	Vial Large Septa unpreserved (4oz)	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)
L2221374-03C	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L2221374-03X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)
L2221374-03Y	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-03Z	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-04A	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2221374-04B	Vial Large Septa unpreserved (4oz)	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)
L2221374-04C	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L2221374-04X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2221374-04Y	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-04Z	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-05A	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2221374-05B	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2221374-06A	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2221374-06B	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L2221374-07A	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2221374-07B	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L2221374-08A	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2221374-08B	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2221374-08C	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2221374-09A	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L2221374-09B	Vial Large Septa unpreserved (4oz)	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)
L2221374-09X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)
L2221374-09Y	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-09Z	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-10A	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2221374-10B	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		TS(7),NYTCL-8082(365)
L2221374-11A	Vial Large Septa unpreserved (4oz)	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: PH. II ESA (APRIL 2022)
Project Number: 01306

Lab Number: L2221374
Report Date: 05/10/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2221374-11B	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L2221374-11X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)
L2221374-11Y	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-11Z	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2221374-12B	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2221374-12C	Vial Large Septa unpreserved (4oz)	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)
L2221374-12D	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2221374-12X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260-R2(14)
L2221374-12Y	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-12Z	Vial Water preserved split	A	NA		3.7	Y	Absent	**02-MAY-22 15:04**	NYTCL-8260-R2(14)
L2221374-13A	Glass 60ml unpreserved split	A	NA		3.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2221374-13B	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	PH. II ESA (APRIL 2022)	**Lab Number:**	L2221374
Project Number:	01306	**Report Date:**	05/10/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PH. II ESA (APRIL 2022)	**Lab Number:**	L2221374
Project Number:	01306	**Report Date:**	05/10/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PH. II ESA (APRIL 2022)	**Lab Number:**	L2221374
Project Number:	01306	**Report Date:**	05/10/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	PH. II ESA (APRIL 2022)	**Lab Number:**	L2221374
Project Number:	01306	**Report Date:**	05/10/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

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NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 4/26/22

ALPHA Job #: L2221374

Client Information
Client: Env. Advantage Inc
Address: 3636 N. Buffalo Rd. Orchard Park NY 14127
Phone: 716-667-3130
Fax: 716-667-3156
Email: Mhanna@envadvantage.com

Project Information
Project Name: Ph. II ESA (April 2022)
Project Location: Mod-Pac Corp. (O'Connell)
Project # 01306
(Use Project name as Project #)
Project Manager: Mark Hanna & Marx Szustak
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved):
Due Date:
of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
Additionally email results to ebetzold & MSzustak@envadvantage.com

Please specify Metals or TAL.

Deliverables
ASP-A / ASP-B
EQuIS (1 File) / EQuIS (4 File)
Other

Regulatory Requirement
NY TOGS / NY Part 375
AWQ Standards / NY CP-51
NY Restricted Use / Other
NY Unrestricted Use
NYC Sewer Discharge

Billing Information
X Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ / NY
Other:

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Vol 8260 TCL+STARS	SVol 8270 TCL+STARS	TAL Metals	T. PCBs	Sample Specific Comments	Total Bottle
21874 1	SB37(0.5-3')	4/21/22	8:50am	Soil	EB	X					1
2	SB4a(0.5-2.5')	4/21/22	9:20am	Soil	EB		X	X			2
3	SB36(1-2')	4/21/22	10:00am	Soil	EB	X	X	X			3
4	SB19(3-5')	4/21/22	10:30am	Soil	EB	X	X	X			3
5	SB38(10-13')	4/21/22	2:55pm	Soil	EB		X	X	X		2
6	SB8a(2.5-4.5')	4/21/22	11:00am	Soil	EB		X	X			2
7	SB30(1.5-3')	4/21/22	11:15am	Soil	EB		X	X			2
8	SB32(0.5-2')	4/21/22	12:30pm	Soil	EB		X	X	X		3
9	SB33(3.5-4.5')	4/21/22	1330	SOIL	EB	X	X				2
10	SB34(2-3')	4/21/22	1345	SOIL	EB			X	X		2

Container Type	A	A	A	A	
Preservative	A	A	A	A	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
AAC	4/25/22 1355	AAC	4/25/22 13:55
AAC	4/25/22 16:00		4/26/22 0010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 4/26/22

ALPHA Job #: L2221374

Client Information
Client: ENVADVANTAGE INC
Address: 3663636 N BUFFALO RD
ORCHARD PARK NY 14127
Phone: (716) 667-3130
Fax: (716) 667-3156
Email: mhann@envadvantage.com

Project Information
Project Name: PH II ESA (APRIL 2022)
Project Location: MOD-PAC CORP. (OCONNELL)
Project # 01306
(Use Project name as Project #) ☐
Project Manager: MARK HANNA + EMARY SZUSTAK
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
ADDITIONALLY EMAIL RESULTS TO ebetzold + mszustak@envadvantage.com

Please specify Metals or TAL.

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL+STARS	SVOC 8270 TCL+STARS	TAL METALS	T. PCBS	Total Bottle
21374 11	SB34 (3-4')	4/21/22	1345	Soil	EB	X	X			2
12	SB40 (1.5-3.5')	4/21/22	1505	SOIL	EB	X	X	X	X	4
13	SB33 (0.5-3.5')	4/21/22	1380	Soil	EB			X		1

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	A	A					
Preservative	A	A	A	A					

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] AAC	4/25/22 1355	[signature] AAC	4/25/22 13:55
[signature] AAC	4/25/22 16:00	[signature]	4/26/22 0:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Attachment G

Objectives and Limitations

OBJECTIVES AND LIMITATIONS

Environmental Advantage, Inc. (EA) has endeavored to meet what it believes is the applicable standard of care for the services completed and, in doing so, is obliged to advise our Clients of the Focused Phase II Environmental Site Assessment (ESA) limitations. EA believes that providing information about limitations is essential to help our Clients identify and thereby manage risks. These risks can be mitigated, and possibly eliminated, through additional research or investigation. EA will, upon request, advise our Clients of the additional research opportunities available and their associated costs.

The findings and opinions conveyed via this ESA report are based upon information obtained during the performance of the investigation, and which EA believes is reliable. EA cannot, and does not warrant, the authenticity or reliability of the information sources it has relied upon in the development of the scope of work for this ESA. In those instances where additional services or service enhancements are included in the report as requested or authorized by the Clients, specific limitations attendant to those services are presented in the text of the report.

The final report represents EA's service to our Clients as of the report date. In that regard, the report constitutes EA's final document, and the text of the report may not be altered in any manner after final issuance of same. Opinions relative to environmental conditions presented in this report are based upon information derived from the most recent site investigation date and from other activities described herein. The Clients are herewith advised that the conditions observed by EA are subject to change. Certain indicators of the presence of hazardous materials may have been latent or not present at the time of the most recent site reconnaissance and may have subsequently become observable. In similar manner, the research effort conducted for a Phase II ESA is limited. Accordingly, it is possible that EA's investigative activities, while fully appropriate for a Phase II ESA and in compliance with the scope of service, may not include identify other important environmental conditions. Assuming such conditions exist, information suggesting their presence may not have been considered in the formulation of the scope of services or EA’s findings and conclusions.

The final report is not a comprehensive site characterization or regulatory compliance audit and should not be construed as such. The opinions presented in this report are based upon findings derived from a site reconnaissance, a review of previously completed ESA(s), and on-site investigative activities. Specifically, EA does not, and cannot, represent that the Site contains no hazardous or toxic materials, products, or other latent conditions beyond that observed by EA during its Site assessment. Further, the services herein shall in no way be construed, designed or intended to be relied upon as legal interpretation or advice.