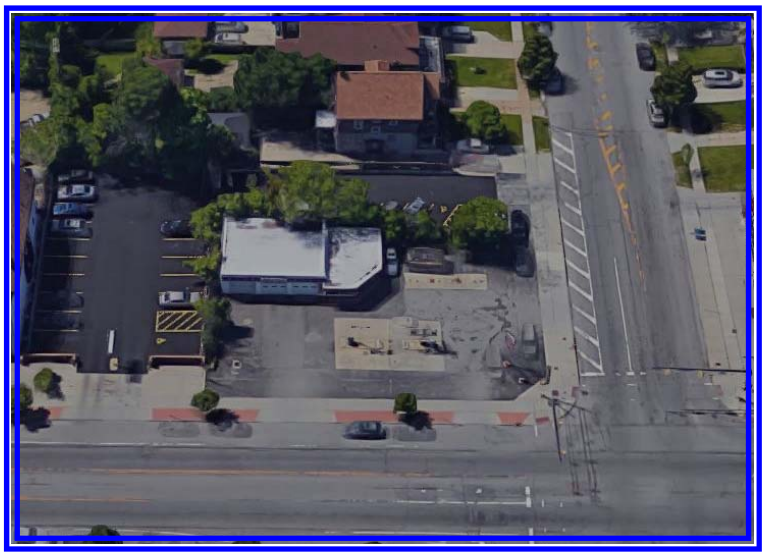
Remedial Investigation/Interim Remedial Measures/Alternatives Analysis Report

1585 Hertel Avenue Site (C915328)
Buffalo, New York

December 2018 0437-017-001

Prepared For:

1585 Hertel LLC.



Prepared By:

BENCHMARK
ENVIRONMENTAL
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REMEDIAL INVESTIGATION
INTERIM REMEDIAL MEASURES
ALTERNATIVES ANALYSIS REPORT

1585 HERTEL AVENUE SITE

BUFFALO, NEW YORK

BCP SITE No. C915328

December 2018 0437-017-001

Prepared for:

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In Association With:

TURNKEY ENVIRONMENTAL RESTORATION, LLC

REMEDIAL INVESTIGATION
INTERIM REMEDIAL MEASURES
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1585 HERTEL AVENUE SITE

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Certification

I, Thomas H. Forbes, certify that I am currently a NYS registered professional engineer as defined in 6NYCRR Part 375 and that this Remedial Investigation/Interim Remedial Measures/Alternatives Analysis Report (RI/IRM/AAR) for the 1585 Hertel Avenue Site (C915328) was prepared in general accordance with applicable statutes and regulations and in general conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that activities were performed in general accordance with the DER-approved work plan and any DER-approved modifications.

12-19-18

Date



1.0 INTRODUCTION

This Remedial Investigation/Interim Remedial Measures/Alternatives Analysis Report (RI/IRM/AAR) has been prepared by Benchmark Environmental Engineering and Science, PLLC (Benchmark), in association with TurnKey Environmental Restoration, LLC (TurnKey), referred to herein as Benchmark-Turnkey, on behalf of 1585 Hertel LLC (1585 Hertel), for the 1585 Hertel Avenue Site, located in the City of Buffalo, Erie County, New York (Site; see Figures 1 and 2).

1585 Hertel elected to pursue investigation, cleanup, and redevelopment of the Site under the New York State Brownfield Cleanup Program (BCP) and executed a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in May 2018 (Index No. C915328-03-18). The RI/IRM Work Plan (Ref. 1, RI/IRM WP) was approved by the NYSDEC with concurrence of the New York State Department of Health (NYSDOH) on May 8, 2018. Benchmark-TurnKey performed RI activities at the Site in June and July 2018, and IRM activities in July through October 2018.

1.1 Background

The Site, addressed as 1585 Hertel Avenue, consists of an approximate ±0.18-acre parcel (SBL 78.74-3-1) located along Hertel Avenue, in the City of Buffalo, Erie County, New York. The Site was improved with one (1) commercial building (former gasoline and automobile service station) which was demolished in June 2018 to complete the RI and IRM activities. At the start of the RI, the Site was vacant, consisting of asphalt, concrete (former building slab, tank slab, and pump islands), gravel, and limited vegetated/soil cover areas along the east and south property lines.

The Site is bound by Parkside Avenue to the west, a parking lot to the east and south, and Hertel Avenue to the north. Land use surrounding the Site includes commercial and residential to the north, south, east and west. The Site was utilized for retail gasoline sales and automotive repair since the late 1930s. Operations ceased in 2016. The location of the service station building and pump islands which were removed as part of the BCP project have existed since about 1963. The previous gasoline service station which occupied the Site prior to 1963 was located in the asphalt paved and pump island areas in the northern portion of the Site.

Previous environmental investigations completed at the Site have identified elevated levels of volatile organic compounds (VOCs) and metals at concentrations exceeding NYSDEC Part 375 Industrial, Commercial and Residential Soil Cleanup Objectives (SCOs). Details of the previous investigations are presented in Section 1.2 below.

1.2 Previous Investigations

1.2.1 October 2017 – Phase I Environmental Site Assessment

Benchmark completed a Phase I Environmental Site Assessment (Ref. 2; ESA) on the Site in October 2017. Benchmark's ESA revealed the following recognized environmental conditions (RECs) in connection with the Site:

- The historic use of the Site as a petroleum retail operation and automotive repair facility from 1938 until operations ceased in 2016 are considered RECs as subsurface conditions are unknown. Note that prior to construction of the existing gasoline service station in 1963, the Site included a previous gasoline service station in current asphalt paved and pump island areas;
- The Site has an extensive tank history with existing inactive underground storage tanks (USTs), previous generations of USTs, and current/former pump island areas. Evidence indicative of former USTs (i.e., cut suspect vent pipes) was observed during the site reconnaissance. Existing and former USTs and pump islands are considered RECs due to the potential for subsurface impacts;
- The in-ground lift systems were observed within the building and are considered RECs due to the potential for impacts;
- The staining noted at the Site is considered a REC as visible impacts were noted to earthen ground surfaces proximate to an aboveground storage tank (AST) and 55-gallon drum on the eastern exterior portion of the Site. Further, additional black staining was noted within the building, including a black liquid/sludge within the floor drain system. The exact discharge point and integrity of the floor drain system is unknown thus considered a REC; and,

- The remaining materials noted at the Site, especially the exterior 55-gallon drum with an unknown liquid, are considered RECs as such will require proper handling and off-site disposal. Similarly, electronic wastes such as light ballasts potentially containing PCBs will require proper handling and off-site disposal.

1.2.2 October 2017 – Limited Phase II Environmental Investigation

Benchmark completed a Phase II Investigation at the Site in October 2017 (Ref. 3; Phase II). The Site was a vacant former gas station and automotive repair facility. The building, gasoline and waste oil USTs and gasoline pump island were still present at the Site at the time of the investigation. Findings of the Phase II are detailed below:

- Based on the field observations during the Phase II, it was evident that petroleum impacts were present at the Site, and, as required by law, the NYSDEC was notified and Spill No. 1706962 was assigned to the Site.
- Petroleum volatile organic compounds (pVOCs) were detected at concentrations exceeding CP-51 Soil Cleanup Levels (SCLs), 6NYCRR Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) and/or Commercial Soil Cleanup Objectives (CSCOs) in soil samples SB-6 (2-4 fbgs), SB-7 (1.5-3.5 fbgs), which were completed in the vicinity of the pump island and existing USTs, respectively. Stained soil, petroleum odors, and the highest photoionization detector (PID) measurements were also noted at these two (2) locations.
- Metals were detected in the four (4) samples analyzed soil samples. Cadmium was detected at SB-2 (0.5-2 fbgs) at concentrations above its respective CSCO. Arsenic, cadmium, and lead were detected at surface soil sample, SS-1, at concentrations above their respective CSCOs.

A summary of Phase II Investigation analytical results, described above, is provided on Table 1. Historic sample locations are illustrated on Figure 3.

1.3 Purpose and Scope

This RI/IRM/AAR has been prepared on behalf of 1585 Hertel to describe and present the findings of the RI activities, details of the IRM completed to achieve a Track 1 Unrestricted cleanup, and evaluates remedial alternatives for the Site.

This report contains the following sections:

- Section 2.0 presents the approach for the RI
- Section 3.0 describes the physical characteristics of the Site as they pertain to the investigation findings
- Section 4.0 presents the investigation results by media
- Section 5.0 describes the Interim Remedial Measures (IRMs)
- Section 6.0 describes the fate and transport of the constituents of primary concern (COPCs)
- Section 7.0 presents the qualitative exposure assessment
- Section 8.0 evaluates remedial alternatives for the Site
- Section 9.0 presents the RI/IRM/AAR summary and conclusions
- Section 10.0 provides a list of references for this report

2.0 REMEDIAL INVESTIGATION APPROACH

The Remedial Investigation (RI) scope of work focused on further defining the nature and extent of contamination, identifying if other potential source(s) of contamination exist, defining chemical constituent migration pathways, qualitatively assessing human health and ecological exposures (if necessary), and obtaining data of sufficient quantity and quality to perform the remedial alternatives evaluation in accordance with NYSDEC DER-10 (Ref. 4).

The RI was performed to supplement the previous Phase II investigation and to more fully characterize subsurface soil/fill materials, groundwater, and overburden stratigraphy within the Site boundaries. The RI tasks were performed in accordance with the NYSDEC-approved RI/IRM WP dated April 2018. RI activities were completed at the Site in June and July 2018 and the IRM activities were completed in July through October 2018.

Field team personnel collected environmental samples (i.e., surface/subsurface soil/fill and groundwater) in accordance with the rationale and protocols described in the Sampling and Analysis Plan (SAP) of the Quality Assurance Project Plan (included in the RI/IRM WP) as detailed on Table 2. Representative environmental samples were collected during the RI using dedicated sampling devices and were placed in pre-cleaned laboratory provided sample containers, cooled to 4ºC in the field, and transported under chain-of-custody command to a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified analytical laboratory (Alpha Analytical (Alpha)).

Samples for chemical analysis were analyzed in accordance with USEPA SW-846 methodologies to meet the definitive-level data requirements. A Category B deliverable package was provided for each sample delivery group to allow independent third-party data validation and provide defensible data. Analytical results were evaluated by a third-party data validation expert in accordance with provisions described in the QAPP. The investigation activities are described below. Figure 4 presents both the Phase II investigation and RI locations. Appendix A contains photographs of field activities.

2.1 Building Demolition

The Site was improved with a 1-story gasoline and automotive service station building which was demolished in accordance with the RI/IRM WP in June 2018 to complete the RI and IRM activities. The RI activities involved completion of soil probe

within the former building footprint to assess the hydraulic lifts and fill materials present beneath the building. The IRM activities involved the removal of the hydraulic lifts located beneath the former building and impacted-soil/fill present around the lifts. Additional details on the building demolition can be found in Section 5.1.

2.2 RI Soil/Fill Investigation

A soil/fill investigation was completed across the Site to supplement the previous environmental data (Phase II) and to further investigate contamination at the Site. The soil/fill investigation included surface soil/fill sampling, the advancement of soil borings and installation of monitoring wells across the Site to collect subsurface soil/fill and groundwater from areas of the Site. Figure 4 presents the RI sample locations.

2.2.1 Surface Soil/Fill Investigation

Two (2) surface soil/fill samples were collected, SS-2 and SS-3, from the limited area of soil/fill cover at the Site on the east and south sides of the former building, respectively. SS-1 was collected from the stained surface soil/fill area during the Phase II on the east side of the building along the eastern property boundary. The surface soil/fill samples were collected from ground surface to approximately 2-inches below ground surface to further delineate impacts identified. The samples were collected using a pre-cleaned stainless- steel spoon.

The representative soil/fill sample was placed in pre-cleaned laboratory provided sample jars, cooled to 4°C in the field, and transported under chain-of-custody command to Alpha for analysis. The surface soil/fill sample analysis included Target Compound List (TCL) SVOCs, Target Analyte List (TAL) Metals, polychlorinated biphenyls (PCBs), pesticides and herbicides. Samples were collected and analyzed in accordance with USEPA SW-846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.

2.2.2 Subsurface Soil/Fill Investigation

The subsurface soil/fill investigation included the advancement of ten (10) soil boring, identified as SB-9 through SB-14 and MW-1 through MW-4. Soil borings SB-1

through SB-8 were completed as part of the Phase II. The soil borings were completed from June 14th through June 21, 2018.

The soil borings were advanced to a depth of approximately 20 feet below ground surface (fbgs) using direct-push methodologies. At MW-1 through MW-4, a rotatory drill rig was used in addition to the direct-push methodologies to complete the borings to depths ranging from 32 to 53 fbgs, to facilitate the installation of groundwater monitoring wells at the four (4) locations, as discussed in Section 2.3.1.

Soil/fill samples were retrieved from the soil borings for visual, olfactory, and photoionization detector (PID) assessment of subsurface conditions. Subsurface soil/fill samples were collected from the soil borings for laboratory analysis (see Table 2). A summary of the subsurface observations at the soil borings completed is provided in Table 3.

2.2.3 Subsurface Soil/Fill Sample Collection and Analyses

A total of 20 soil/fill samples were collected from the soil borings completed during the RI, excluding QA/QC samples. Two (2) samples were selected from each soil boring to better identify the vertical and horizontal extent of chemical concentrations of non-native fill and native soil across the Site. Soil/fill samples were collected from the acetate liners used within the marcocore sampler to retrieve the soil/fill samples from the subsurface soil boring locations

Representative soil/fill samples were analyzed in accordance with the NYSDEC-approved work plan, for analysis which included TCL VOCs, TCL SVOCs, TAL metals, PCBs, pesticides, and herbicides as shown on Table 2.

Samples were collected and analyzed in accordance with USEPA SW-846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.

2.3 Groundwater Investigation

Benchmark-TurnKey personnel provided oversight for the installation of four (4) groundwater monitoring wells, identified as MW-1 through MW-4, to investigate on-Site overburden groundwater flow direction and quality (see Figure 4). Monitoring wells were installed on June 19th through 21st, 2018. Details of the well installation, well development,

and groundwater sampling are provided below. Soil/fill samples were retrieved from the monitoring well installations for visual, olfactory, and PID assessment of subsurface conditions, as well as laboratory analysis.

2.3.1 RI Monitoring Well Installation

On June 19, 2018, Benchmark-TurnKey's subcontractor, Nature's Way Environmental, Inc. (NWE) mobilized a drill rig capable of continuous split-spoon sampling while advancing 4-¼ inch hollow-stem augers (HSA) to install groundwater monitoring wells into the upper groundwater bearing zone. As discussed in Section 2.2.2, soil/fill sampling was completed in the upper 20 feet at the monitoring well locations using direct-push methodologies. Split-spoon sampling was used to retrieve soil samples and assess the subsurface conditions from 16 fbgs to the bottom of the borings which ranged from 32 fbgs (MW-1, MW-3, and MW-4) to 53 fbgs (MW-2).

After completion of the four (4) soil borings, 2-inch inner diameter (ID) flush-joint Schedule 40 PVC monitoring wells were installed at the boring locations. Each well was constructed with a flush-joint Schedule 40 PVC, 0.010-inch machine slotted well screen. The screen lengths used for the well installation at MW-1, -3, and -4 were 10 feet and 30 feet was used at MW-2 due to the depth of the well. Each well screen and attached riser was placed at the bottom of each borehole and a silica sand filter pack (size #00N) was installed from the base of the well to approximately 2 to 5 feet above the top of the screen. An approximate 3-foot think bentonite chip seal was installed at the top of the sand pack and hydrated to mitigate the potential for downhole contamination. The monitoring wells were completed with lockable J-plug and flush mount road box.

Detailed soil/fill descriptions are provided in the Table 3 and the well construction details are provided in Appendix B. Monitoring well construction details and survey elevations are provided in Table 4.

2.3.2 Monitoring Well Development

After installation but not within 24 hours, the monitoring wells were developed in accordance with Benchmark-TurnKey and NYSDEC protocols provided in RI/IRM WP. Development of the monitoring wells was completed with dedicated disposable polyethylene bailers via surge and purge methodology. Field parameters including pH, temperature,

turbidity, and specific conductance were measured during development until they became relatively stable. Stability was defined as variation between measurements of approximately 10 percent or less with no overall upward or downward trend in the measurements; or a minimum of three (3) well volumes were removed if the well went dry. Due to low groundwater yield in the underlying native clay soils the wells were developed on June 27, 2018 and purged to dry-like conditions.

2.3.3 Groundwater Sample Collection and Analyses

Groundwater samples were collected from the four (4) monitoring wells in accordance with the NYSDEC-approved RI/IRM Work Plan and parameters detailed on Table 2. Due to the very slow recharge within the wells after development, passive diffusion bag (PDB) samplers were placed in the monitoring wells on July 5th and remained in the wells, below the water column for 14 days prior to retrieval and collection of the TCL plus CP-51 VOC samples. On July 19th, PDBs were removed from the monitoring wells and VOC samples were collected. Once the PDBs were removed the remaining sample parameters were collected.

Additionally, at NYSDEC's request, the groundwater sampling at MW-2 and MW-4 also included analysis for per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane (also known as emergent contaminants), as part of a state-wide investigation by NYSDEC. The 1,4-dioxane testing was completed via EPA Method 3510C for the extraction and analysis was completed using EPA Method 8270D Selective Ion Method (SIM). The PFAS testing was completed via EPA Method 537 for the extraction and analysis.

Visual and olfactory field observations were made on the groundwater removed from the well. No indications of impacts (sheen or odors) were noted. Groundwater samples collected were placed in pre-cleaned, pre-preserved laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to Alpha in Westborough, Massachusetts.

2.4 Field Specific Quality Assurance/Quality Control Sampling

In addition to the subsurface soil/fill and groundwater samples described above, field-specific quality assurance/quality control (QA/QC) samples were collected and analyzed to ensure the reliability of the generated data as described in the QAPP and to

support the required third-party data usability assessment effort. Site-specific QA/QC samples included matrix spikes, matrix spike duplicates, blind duplicates, and trip blanks.

Two (2) site specific QA/QC samples (Matrix Spike (MS), Matrix Spike Duplicate (MDS) and Duplicate) were collected during the RI. One (1) set of QA/QC samples were collected from the soil/fill media and one (1) set was collected from the groundwater media. The QA/QC sampling was performed at a frequency of one for every twenty (20) samples that were submitted to the laboratory for analysis (see Table 2 for QA/QC samples and locations).

2.5 Site Mapping

A Site map was developed for the RI field investigation. Benchmark-TurnKey personnel used existing site features to identify the locations of the soil borings and monitoring well locations. Monitoring well elevations (ground surface and top of riser) were measured by Benchmark-TurnKey. An isopotential map showing the groundwater elevations measured on August 10, 2018 was prepared based on water level measurements relative to an arbitrary benchmark which was established (southeast corner of the top of the catch at curb line at corner of Hertel and Parkside Avenues) at the Site which was given a vertical datum of 500 ft (see Figure 5).

2.6 Decontamination & Investigation-Derived Waste Management

Every attempt was made to utilize dedicated sampling equipment during the RI, however, non-dedicated equipment was required and/or used (e.g., spilt spoons) and was decontaminated with a non-phosphate detergent (i.e., Alconox®) and potable water mixture, rinsed with distilled water, and air-dried before each use in accordance with the field operating procedure (FOP).

2.7 Community Air Monitoring Program

During the RI activities, real-time community air monitoring was performed during any intrusive activities at the Site (June 14th, 2018 through June 21st, 2018) in accordance with the Community Air Monitoring Plan (CAMP) included in the project health and safety plan (HASP). Particulate and VOC monitoring were performed downwind of the soil boring areas in accordance with this plan. There were no exceedances of the particulate and

total volatile organic levels established caused by site intrusive soil activities. The CAMP data has been included in Appendix C.

3.0 SITE PHYSICAL CHARACTERISTICS

The physical characteristics of the Site observed during the RI are described in the following sections.

3.1 General Site Features and Site Topography

The Site consists of one (1) parcel addressed 1585 Hertel Avenue (SBL: 78.74-3-1) in the City of Buffalo. The Site is bound by Hertel Avenue to the north, a parking lot to the south and east, and Parkside Avenue to the west. The Site is generally flat lying but slopes to the north toward catch basins located in the northeast and northwest corners of the Site.

The Site was formerly improved with one (1) 1-story gasoline and automotive service station building, which had three (3) service bays and an office area. The areas around the building consisted of asphalt, concrete, and some soil/fill and vegetated areas on the east and south. Prior to implementing the RI and IRM, the building was demolished.

3.2 Geology and Hydrogeology

3.2.1 Overburden

The U.S. Department of Agriculture Soil Conservation Service soil survey map of Erie County characterized the general soil type at the Site as Urban Land-Churchville complex (Uh). This complex consists of nearly level areas of urban land and deep somewhat poorly drained Churchville soils, formed in clayey deposits underlain by glacial till. This complex is located in urban areas in the City of Buffalo, ranging from 5 to 600 acres, and are irregular in shape. The presence of fill material is widespread and common throughout the City of Buffalo.

The geology at the Site was investigated during the Phase II and RI. Fill material is generally present in the upper 2 to 5 feet and contains varying amounts of non-native sands, gravels and silts. The native soil consists of lean clay which is present below the fill to depths greater than 55 feet (depth of deepest boring at MW-2).

3.2.2 Bedrock

Based on the bedrock geologic map of Erie County, the Site is situated over the Camillus Shale of the Upper Silurian Series. The Camillus Shale is a gray shale containing large amounts of gypsum. It is estimated to be present at 80 fbgs. It was not encountered during the RI.

3.2.3 Hydrogeology

Groundwater elevation data was collected on August 4, 2018 from the four (4) monitoring wells and used to evaluate Site hydrogeology. Depth to groundwater ranged from approximately 8 fbgs (MW-4) to 15.5 fbgs (MW-2). In general, groundwater flow direction was estimated to be northwesterly as shown on Figure 5, which is an overburden groundwater isopotential map. Groundwater elevations are shown on the table below.

Location	Top of Riser (TOR) Elevation	Depth of Groundwater August 4, 2018 (fbgs)	Groundwater Elevation from TOR August 4, 2018 (ft)	Depth of Groundwater August 10, 2018 (fbgs)	Groundwater Elevation from TOR August 10, 2018 (ft)
MW-1	500.7	11.3	489.4	7.8	492.9
MW-2	499.6	15.5	484.1	11.6	488.0
MW-3	500.4	15.1	485.3	11.7	488.7
MW-4	502.5	8.0	494.5	4.6	497.9

Note: An arbitrary benchmark was established (southeast corner of the top of the catch at curb line at corner of Hertel and Parkside Avenues) at the Site which was given a vertical datum of 500 ft for determining the relative elevation survey for the ground surface, top of riser and groundwater elevations.

Although the measured depths to groundwater in the table above are 15 feet or less, saturated subsurface soil conditions which would indicate the presence of groundwater were not encountered until approximately 21 fbgs. The elevated water elevations likely represent an artesian condition where the hydrostatic pressure of the water bearing soils have created the elevated water levels within the wells. We note that the four (4) wells were installed by June 22nd and the water levels rose for over 40 days to levels measured on August 4th.

3.2.4 Hydraulic Gradients

Hydraulic gradient of the saturated overburden was determined from groundwater elevation data collected on August 4, 2018.

The estimated horizontal hydraulic gradient for overburden groundwater was calculated to range from 0.05 ft/ft (MW-1 to MW-2) to 0.09 ft/ft (MW-4 to MW-2). The hydraulic gradient calculations are included in Appendix D.

4.0 INVESTIGATION RESULTS BY MEDIA

The nature and extent of contamination at the Site was further characterized using soil/fill and groundwater samples collected and analyzed as part of the RI. As described above, samples collected during the Phase II investigations were used to supplement this RI.

Appendix E contains laboratory analytical data packages for samples analyzed from the RI. Analytical data discussed in this section includes results from the Phase II as well as the RI data collected by Benchmark-TurnKey personnel. Tabulated analytical results are shown only for those parameters for which a value greater than the method detection limit and was detected at a minimum of one (1) sample location.

Table 1 summarizes the previous investigation soil/fill sample analytical results. Table 2 summarizes the sampling and analytical program employed under RI. The surface and subsurface soil/fill results are summarized on Tables 5 and 6, respectively, and the groundwater sample results are summarized on Table 7.

4.1 Standards, Criteria, and Guidance

According to DER-10 Section 1.3(b)71, SCGs mean "*standards and criteria that are generally applicable, consistently applied, and officially promulgated, that are either directly applicable or not directly applicable but are relevant and appropriate, unless good cause exists why conformity should be dispensed with, and with consideration being given to guidance determined, after the exercise of scientific and engineering judgment, to be applicable. This term incorporates both the CERCLA concept of 'applicable or relevant and appropriate requirements' (ARARs) and the USEPA's 'to be considered' (TBCs) category of non-enforceable criteria or guidance. For purposes of this Guidance, 'soil SCGs' means the soil cleanup objectives and supplemental soil cleanup objectives identified in 6NYCRR 375-6.8 and the Commissioner Policy on Soil Cleanup Guidance (CP-Soil).*"

For discussion purposes, analytical results for the investigations and IRM were compared with the following SCG values.

<u>Soil/Fill:</u>

Soil Cleanup Objectives (SCOs) per 6 New York Code Rules and Regulation (6 NYCRR) Part 375 Environmental Remediation Programs, Subparts 375-12 to 375-4 & 375-6, effective December 14, 2006.

Groundwater

Class GA Groundwater Quality Standards and Guidance Values (GWQS/GVs) per NYSDEC's Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1), June 1998, amended April 2000.

Sample results compared to the above criteria are described below according to media and contaminant class.

4.2 Limited Phase II Environmental Investigation Results

Eight (8) soil/fill samples were collected as part of the previous Phase II from the Site. Sample analysis included VOCs, SVOCs, metals and PCBs. Table 1 summarizes the soil/fill analytical results with comparison to applicable Part 375 SCOs and the sample locations are identified on Figure 3.

VOCs and/or metals were detected above their respective USCOs (5 locations), RRSCOs (3 locations), and CSCOs (3 locations) from samples collected from the Site. VOCs exceeding their respective USCOs or RRSCOs were detected at SB-6, 2-4 fbgs and SB-8, 0.5 to 3.5 fbgs which were located west of the pump island and north of the UST. Metals exceeding their respective USCOs, RRSCOs or USCOs were detected at SB-2, 0.5-2 fbgs; SB-8, 0.5-2.5 fbgs; and SS-1, 0-2 inches which were sample of fill material at those locations in the central and eastern portions of the Site.

4.3 RI Surface Soil/Fill Investigation Results

Benchmark-Turnkey completed surface soil/fill sampling at two (2) locations, between the former building location and the eastern and southern property bounds as the remaining portions of the Site are covered with concrete slabs or asphalt hardscape. Table 5 summarizes the RI surface soil/fill samples with comparison to applicable Part 375 SCOs. Sample locations are shown on Figure 4. Sample results are discussed in the context of pre-IRM activities. VOC analysis was not completed on the surface soil/fill samples.

4.3.1 Semi-Volatile Organic Compounds

SVOCs were detected above method detection limits in both surface soil/fill samples, SS-2 and SS-3. SVOCs were detected at concentrations exceeding their respective USCOs, RRSCOs, CSCOs and ISCOs.

4.3.2 Inorganic Compounds

Metal analytes were detected at concentrations above method detection limits in both surface soil/fill samples, SS-2 and SS-3. Some of the metals detected in sample location SS-2 were at concentrations above their respective USCOs. Metals detected in sample location SS-3 were at concentrations above their respective USCOs, RRSCOS, CSCOs and ISCOs.

4.3.3 Polychlorinated Biphenyls

PCBs (specifically Aroclor 1254 and 1260) were detected above method detection limits in both surface soil/fill samples SS-2 and SS-3. The detected concentrations were generally reported at trace (estimated) concentrations and in all instances fell below the USCO for total PCBS.

4.3.4 Pesticides and Herbicides

Pesticides and herbicides were not detected above laboratory detection limits in the two (2) surface soil/fill samples analyzed for pesticides and herbicides.

4.3.5 Surface Soil/Fill Summary

SVOCs and metals-impacted soil/fill have been identified in fill material present on the eastern and southern sides of the Site. No pesticide or herbicides were detected above method detection limits and the PCBs detected were at concentrations below their respective USCOs. The surface soil/fill areas of impacts were excavated and disposed at a landfill as part of the IRM activities discussed in Section 5.

4.4 RI Soil/Fill Investigation Results

Benchmark-Turnkey completed subsurface sampling across the Site to further assess on-Site subsurface conditions. Table 6 summarizes the RI subsurface soil/fill samples with

comparison to applicable Part 375 SCOs. Sample locations are shown on Figure 4. Sample results are discussed in the context of pre-IRM activities.

4.4.1 Volatile Organic Compounds

VOCs were detected above method detection limits in 18 of the 20 samples submitted for VOC analysis. The concentrations of the VOC detections in the 18 samples were below their respective USCOs except for three (3) sample locations: MW-4, 4 to 4.5 ft; SB-12, 0-4 feet; and SB-13, 0-1 foot. These three (3) locations are in the southeastern portion of the Site. MW-4 is located in the area were staining was present on the ground surface likely from historic use as an AST and drum storage location. SB-12 and SB-13 were completed adjacent to the two (2) hydraulic lifts located within the footprint of the former building.

Petroleum odors and/or PID measurements above background (i.e., 0 parts per million (ppm)) were noted at the following locations: MW-2, MW-3, MW-4, SB-9, SB-10, and SB-12.

Five (5) of the 20 samples were also analyzed for tentatively identified compounds (TICs). The location and total concentration of TIC are as follows: SB-9, 0 to 3 feet – 41.8 mg/kg; SB-9, 4 to 8 feet – non-detect; SB-10, 0 to 0.5 feet – 0.00368 mg/kg; SB-12, 0 to 4 feet – 0.275 mg/kg; and SB-13, 8-12 feet – 0.00669 mg/kg.

4.4.2 Semi-Volatile Organic Compounds

SVOCs were detected above method detection limits in 14 of the 20 samples analyzed for SVOCs. SVOCs were not detected above their respective USCOs.

Five (5) of the 20 samples were also analyzed for tentatively identified compounds (TICs). The location and total concentration of TIC are as follows: SB-9, 0 to 3 feet – 9.51 mg/kg; SB-9, 4 to 8 feet – 1.12 mg/kg; SB-10, 0 to 0.5 feet – 2.06 mg/kg; SB-12, 0 to 4 feet – 0.117 mg/kg; and SB-13, 8-12 feet – 1.6 mg/kg.

4.4.3 Inorganic Compounds

Metal analytes were detected at concentrations above method detection limits in the 20 samples analyzed for metals. The concentrations of the metals detected in 18 of the 20 samples were below their respective USCOs. Zinc was detected in the two (2) samples

submitted from MW-1 above its RRSCO at MW-1, 0 to 2 feet (4,430 mg/kg) and its USCO at MW-1, 8 to 12 feet (114 mg/kg).

4.4.4 Polychlorinated Biphenyls

PCBs were detected above method detection limits in five (5) of the eleven (11) samples analyzed for PCBs. The detected concentrations were below their USCO.

4.4.5 Pesticides and Herbicides

Pesticides were detected above method detection limits in one (1) of the eleven (11) samples analyzed for pesticides. The detected concentration of 4,4-DDE was below its USCO at SB-11, 16-20 feet.

Herbicides were not detected above method detection limits in the eleven (11) samples submitted for herbicide analysis.

4.4.6 Subsurface Soil/Fill Summary

VOCs impacts have been identified in the vicinity of the pump island, hydraulic lifts and former exterior AST/drum storage area on the eastern portion of the Site and zinc was identified above its USCOs at MW-1. These locations were excavated and disposed at a landfill as part of the IRM activities discussed in Section 5.

No SVOCs, PCBs, pesticides or herbicides were detected above their respective USCOs that required remedial action as part of the Phase II or RI in the subsurface soil at the Site.

4.5 Groundwater Investigation

Benchmark-TurnKey personnel sampled the four (4) groundwater monitoring wells MW-1, -2, -3, and -4 installed as part of the RI to investigate on-Site groundwater quality and flow direction. Table 7 presents a comparison of the groundwater sample results to NYSDEC Class GA groundwater quality standards (GWQS). Groundwater samples were collected in accordance with the RI/IRM WP and analyzed for the parameters shown on Table 2, with the exception of the VOCs. Due to the tight nature of the clay soils underlying the Site and the slow groundwater recharge within the monitoring wells, PDBs were used for

the collection of the VOC samples, as discussed in Section 2.3.3. The laboratory analytical data package for the groundwater samples are in Appendix E.

4.5.1 Volatile Organic Compounds

One (1) VOC, carbon disulfide, was detected at one (1) of the four (4) groundwater sample locations, MW-4, collected and analyzed for VOCs at the Site. The detected concentration was below their respective GWQS. VOCs were non-detect at the other three (3) locations.

One (1) of the four (4) samples was also analyzed for TICs, MW-2, the location closet to the petroleum contamination identified around the pump island. The total concentration was 3.81 micrograms per liter (ug/l).

4.5.2 Semi-volatile Organic Compounds

SVOCs were detected above method detection limits in the four (4) groundwater samples collected and analyzed for SVOCs at the Site. The majority of the detected concentration were reported as trace estimated concentrations (J qualified).

Six (6) SVOCs were detected above their respective GWQS: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. These compounds have a GWQS of 0.002 ug/l or less. Although these compounds were detected above their GWQS, the total SVOCs detected at the four (4) well locations are as follows.

- MW-1: 10.28 ug/l
- MW-2: 0.44 ug/l
- MW-3: 4.76 ug/l
- MW-4: 4.31 ug/l

The total SVOCs detected at the well locations are very low and these compounds were not detected in the subsurface native soil underlying the Site in the samples from either the Phase II or RI. As saturated soil was not encountered until a depth of greater than 20 fbgs, the impacts do not appear to be related to the Site but are indicative of an urban area. Drinking water is supplied by the municipality and the use of groundwater for potable uses is prohibited in the City of Buffalo.

4.5.3 Inorganic Compounds

Metals were detected above method detection limits in the four (4) groundwater samples collected and analyzed for metals. Of those detected, four (4) analytes were detected above their respective GWQS: iron, magnesium, manganese, and sodium. These metals are typical in urban areas, found in salts used to maintain roads in the winter, and were not detected above their respective USCOs in the subsurface soil sample collected at the Site. With the exception of lead and manganese, these metals impact the aesthetic quality of the groundwater rather than act as significant contaminants and the concentration of lead and manganese were not significantly above their respective GWQS. The presence of these metals in the groundwater are likely attributed to the Site's urban setting.

4.5.4 Polychlorinated Biphenyls

No PCBs were detected above method detection limits.

4.5.5 Pesticides

No pesticides were detected above method detection limits.

4.5.6 Herbicides

No herbicides were detected above method detection limits.

4.5.7 Emergent Contaminants

Emergent contaminant sampling consisted of groundwater analysis for 1,4-dioxane (via EPA Method 8270 Selective Ion Monitoring (SIM)) and per- and polyfluoroalkyl substances (PFAS, via Method EPA 537) from one (1) upgradient groundwater location (MW-1) and one (1) downgradient groundwater location (MW-2). The results for 1,4-dioxane were non-detect. PFAS were detected at low-level concentrations below NYSDEC emerging contaminants guidance values in the two (2) groundwater samples collected from MW-1 and MW-2 (see Table 7).

4.5.8 Groundwater Summary

As described above no VOCs, PCBs, pesticides, or herbicides were detected above their respective GWQS at the four (4) groundwater monitoring locations at the Site (Table 6). The results of the groundwater samples collected as part of the RI indicate low-level SVOCs and metals are present above their respective GWQS. The SVOCs and metals detected above their GWQS were generally detected in all four (4) wells (including upgradient wells (MW-1 and MW-4)) installed on the eastern boundary of the Site; and were not identified in the subsurface soil samples collected at the Site as concerns. The exceedances detected in the groundwater are likely attributable to the urban nature of the Site and ubiquitous in urban settings.

The results for 1,4-dioxane were non-detect and PFAS were detected at low-level concentrations.

4.6 Data Usability Summary

In accordance with the RI Work Plan, the laboratory analytical data from this investigation was assessed and, as required, submitted for independent review. Data Validation Services located in North Creek, New York performed the data usability summary assessment, which involved a review of the summary form information and sample raw data, and a limited review of associated QC raw data. Specifically, the following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate Recoveries
- Field Duplicate Correlation
- Preparation/Calibration Blanks
- Control Spike/Laboratory Control Samples
- Instrumental IDLs
- Calibration/CRI/CRA Standards
- ICP Interference Check Standards
- ICP Serial Dilution Correlations
- Sample Results Verification

The Data Usability Summary Report (DUSR) was conducted using guidance from the USEPA Region 2 validation Standard Operating Procedures, the USEPA National Functional Guidelines for Data Review, as well as professional judgment.

In summary, the analytical results were usable either as reported or with minor qualification or edit with the exception of the following data.

- 1,4-dioxane determined from the VOC EPA Method 8260 methodology were rejected in soil/fill and groundwater samples due to poor instrument response inherent in that methodology.

Additional qualifications of the data have been incorporated to the summary data tables. Appendix F includes the DUSR.

4.7 Constituents of Concern (COCs)

Based on the findings of the Phase II and RI, and the planned redevelopment of the Site, the Constituents of Concern (COC) to be are:

Soil/Fill: VOCs and metals.

Groundwater: None

5.0 INTERIM REMEDIAL MEASURES

1585 Hertel LLC prepared and submitted a 1585 Hertel Avenue RI/IRM WP detailing the planned IRM activities, which was approved in May 2018. Details of the completed IRM is presented below and will be fully documented in the Final Engineering Report (FER).

5.1 Building Demolition

Prior to the investigation and remediation to remove the impacted soil/fill, the Site building was demolished. A pre-demolition asbestos containing material (ACM) survey was completed and did not identify ACM that required abatement prior to the demolition. A copy of the ACM report and City of Buffalo demolition permit are included in Appendix G.

The building demolition was completed by Niagara Environmental & Wrecking, Inc. The building debris was taken to Waste Management, Chaffee Landfill facility in Chaffee, NY. The concrete block of the building was taking to Swift River in Tonawanda, NY and recyclable steel was taken to Bison Scrap in Buffalo, NY and Niagara Metals in Cheektowaga, NY.

5.2 Waste Characterization Sampling

Prior to initiating the IRM activities, three (3) waste characterization samples were collected during the RI activities from impacted soil/fill for landfill waste characterization sample requirements. Waste profiles were prepared and approved for soil/fill at the Waste Management Chaffee Landfill and the Tonawanda Terminals Corp. Biotreatment Facility. Additional waste characterization data was collected as needed for additional landfill volume requirements.

Liquid waste characterization samples were also collected from the

- 55-gallon drum of liquid that was present on the eastern exterior of the building;
- two (2) waste oil tanks (UST-2 and UST-3) which were each approximately 550-gallons and located west of the former building on the southern portion of the Site and north of the former building on the eastern portion of the Site, respectively
- drum of hydraulic oil and water generated from hydraulic lift removal; and

- water present in the approximate 500-gallon UST (UST-4) encountered in the northeastern portion of the Site.

The laboratory reports for the waste characterization samples are included in Appendix E.

5.3 Site Preparation Activities

In preparation of the Site for the IRM excavation activities, the following activities were completed in addition to contractor mobilization.

5.3.1 Site Security & Safety Fencing/Jersey Barriers

A 6-foot high chain link fence was installed around the perimeter for the Site for safety and security. Concrete jersey barriers were also installed in the bank parking lot to the east and south of the Site as excavation activities will likely extend to the property line in those areas. Water filled barriers were installed along the eastern edge of the north bound lane of Parkside Avenue to provide a pedestrian traffic lane as the site fencing installed on the western portion of the Site closed the side walk to pedestrian traffic. The installation of roadway and sidewalk obstructions were done under a City of Buffalo permit (Permit No. SO 2018-1070).

5.3.2 Decommissioning of Fire Suppressions System on Former Pump Island

The former pump island contained a fire suppression system which consisted of two (2) pressurized cylinders containing Watchman™ PGS-70 stored pressure dry chemical. Elwood Fire Protection, Inc. (Elwood) was subcontracted to remove the cylinders and associated piping. The cylinders were taken back to Elwood's facility where they were depressurized, the dry chemical removed, and drummed with similar chemicals for disposal. The cylinders were cleaned, cut up and sent as scrap for recycling.

5.3.3 Drum Disposal

A deteriorating 55-gallon steel drum was present on the eastern exterior of the former Site building. The drum appeared to contain water, some sediment and potentially radiator fluid based on the light green hue to the water. After the waste characterization data was

accepted by the disposal facility for non-hazardous disposal, the drum was removed from the Site. However, because of its poor condition, it was overpacked into an 85-gallon drum by Environmental Service Group (NY), Inc. prior to transportation from the Site to the American Recyclers Company (ARC) disposal facility in Tonawanda, NY.

5.3.4 Concrete Building Slab/Foundation and Asphalt Removal

Prior to starting the remedial actions, TurnKey removed the majority of the concrete building slab, concrete foundation and the asphalt cover at the Site. The concrete and asphalt which were free of soil/fill were taken to Swift River Associates, Inc. located on River Road in Tonawanda or Iron City Recovery, LLC located on Hamburg Turnpike in Lackawanna, NY. Eleven (11) truckloads of concrete and/or asphalt were taken to the facilities for recycling.

During concrete and asphalt removal, Benchmark-TurnKey conducted CAMP monitoring as impacted soil/fill was present adjacent to and below the foundations and slabs which were exposed after concrete removal. There were no exceedances of the thresholds established in the CAMP for particulates and/or total volatile organics during the concrete foundation and slab removal activities. The CAMP data has been included in Appendix C.

5.4 IRM Excavation Activities

The IRM excavation activities were completed to remove a total nine (9) USTs, three (3) hydraulic lifts, former pump island piping, and petroleum- and metals-impacted soil/fill. These activities were completed between August 15th and October 15, 2018, as further described below.

5.4.1 Underground Storage Tanks Removal

A total of nine (9) USTs were encountered and removed by TurnKey during the IRM activities.

- 1 – 10,000-gallon fiberglass coated steel compartmentalized (6,000/4,000) tank which was used to store unleaded gasoline. The tank appeared to be in good condition with no holes observed. This is referred to as UST-1
- 2 – 550-gallon steel tanks used to store waste oil. Both tanks had small holes in the sidewalls and contained water. These were referred to as UST-2 and

UST-3. UST-2 was west of the former building and adjacent to UST-1 and UST-3 was located north of the former building.

- 3 – 2,000-gallon steel tanks used to store gasoline. These tanks were located in the vicinity of the pump island in the northern portion of the Site and were filled with concrete. These tanks were addressed as part of the Pump Island excavation area.
- 3 – 500-gallon steel tanks. Two (2) of the USTs were encountered in the vicinity of the pump island in the northern portion of the Site, were filled with sand and water, and were addressed as part of the Pump Island excavation area. The 3rd tank was encountered in the northeastern corner of the Site adjacent to MW-1 and is referred to as UST-4/MW-1. This tank was filled with water.

Prior to removing the USTs from the ground, the liquid and sediment contents of the USTs were either removed directly into a vacuum truck, pumped into totes for waste characterization, or shoveled into drums (as was the case for sediment in the bottom of the tanks generated during cleaning).

All liquids and solids generated from the USTs have been removed from the Site. ESG provided vacuum truck services for removing the tank contents, cleaned the USTs, and transported the liquids and sediments offsite for disposal at the ARC facility in Tonawanda, New York. Additionally, water was present in the tank excavation around UST-1. ESG removed the water from the excavation with a vacuum truck to assist with UST-1 removal. The materials removed from the Site by ESG related to the USTs were disposed of as non-hazardous material and are as follows:

- 1,252-gallons of product and water from UST-1 and UST-3. One (1) 55-gallon drum of sediment was generated by ESG when cleaning the vacuum truck at their facility for this work.
- 4,117-gallons of water present in the excavation around UST-1. Two (2), 55-gallon drums of sediment were generated by ESG when cleaning the vacuum truck at their facility for this work.
- 1,833-gallons of water generated from the cleaning of UST-1, UST-2 and UST-3.
- 255-gallons of water inside the three (3), 2,000-gallon USTs that were encountered in the vicinity of the Pump Island and were primarily filled with concrete. The concrete was removed from the USTs, broken up, and sent to the landfill with other petroleum impacted soil/fill.

- 1,285-gallons of water from UST-2 and UST-4.

After the contents were removed and the USTs were cleaned, the scrap tanks were taken to Metalico, in Buffalo, New York for recycling.

5.4.2 Hydraulic Lift Removal

Two (2) hydraulic lifts were present within the former building beneath the former building slab. The lifts were removed from the ground, their contents were drained into one (1) 55-gallon drum.

During the removal of the waste oil tank (UST-3) located just north and outside of the former building in the eastern portion of the Site, a third hydraulic lift was encountered. This lift may be associated with the building which was located in the northeastern portion of the Site from the late 1930s to the 1960s. The lift was removed from the ground, its contents emptied into the drum with the other hydraulic lift contents.

A total of 1 drum was generated from the hydraulic lift contents. The oil within the drum was sampled for PCBs as requested ESG and taken to ARC for disposal as a non-hazardous material.

The three (3) steels lifts were cleaned and taken to Metalico, Inc. for recycling.

5.4.3 Pump Island Piping Removal

During the impacted soil/fill excavation activities in the vicinity of the former pump island, the piping associated with former pump island were encountered and removed. The piping did not appear to contain any petroleum product. The steel piping was removed from the ground and send to Metalico, Inc to be recycled and the fiberglass piping was sent to the landfill during the petroleum impacted soil/fill excavation activities.

5.4.4 Impacted-Soil/Fill Removal

Impacted soil/fill excavation activities were conducted at the Site from August 15th to October 15, 2018. The depth of excavation depths ranged from approximately 2 to 13.5 fbgs, based on the findings of the previous Phase II investigation, RI, and field conditions encountered during the IRM. The contaminants of concern were petroleum VOCs, SVOCs and metals. The excavation activities were completed to remove evidence of petroleum- and

metals-impacted soil/fill and collect post-excavation conformation samples to confirm the proper removal.

The IRM excavation activities removed approximately 3,046 tons of soil/fill. The petroleum- and metals-impacted soil/fill material were taken to Waste Management' Chaffee Landfill and the petroleum-impacted native soil was taken to Tonawanda Terminal Corporation (TTC). Appendix H contains the landfill disposal tonnage summaries. Figure 6 identifies the area of IRM excavation activities, approximate depth of the excavation activities and approximate post-excavation confirmation samples location at the Site.

5.4.5 Post Excavation Soil Sampling

A total of 85 post-excavation samples (excluding QA/QC samples) were collected from the sidewalls (65 samples) and bottom (20 samples) of the IRM excavation.

The post-excavation sample laboratory analysis primarily included TCL plus CP-51 list VOCs and Part 375 List SVOCs at each of the sample locations. TAL metals were added in addition to the VOC and SVOC analysis in the metals-impacted area in the southern and eastern portions of the Site.

During the IRM, 16 post-excavation sample locations required additional soil/fill removal activities to achieve the USCOs. These samples are included on Table 8 with a header "REMOVED" with the subsequent post-excavation sample(s) provided to the right of those samples. Areas of additional soil/fill removal included:

- UST-1 – to address detections of acetone above its USCO in sidewall sample UST-1 SW-3.
- UST-3 –to address a detection of acetone above its USCO in bottom sample UST-3 B-1.
- UST-4/MW-1 – to address a detection of acetone above its USCO in sidewall sample UST-4/MW-1 SW-1; and a detection of lead above its USCO in sidewall sample UST-4/MW-1 SW-3.
- Pump Island – to address detection of petroleum VOCs above their USCOs in sidewall samples Pump Island SW-2, Pump Island SW-3, and Pump Island B-1; and to address detections of acetone above its USCO in sidewall sample Pump Island SW-11.

- Hydraulic Lift – to address a detection of acetone above its USCO in sidewall sample HLA—SW-1.

After additional soil/fill was removed the areas were resampled. The resample location was given the same initial sample number with a "R" (resample) designation added (e.g., Pump Island SW-2, became Pump Island SW-2R). The results are summarized on Table 8. There were 84 samples analyzed for VOCs, 70 samples were analyzed for SVOCs and 24 samples analyzed for metals. Resampled locations were analyzed for the parameter class (i.e., VOCs) only which had the USCO exceedance.

At the completion of the IRM excavation activities, four (4) post-excavation sample locations had USCO exceedances (Pump Island SW-2R, Pump Island SW-3R, Pump Island SW-11R(1), and MA-SW-2R) that were sidewall samples (SW) collected from the BCP Site boundary or off-site sampling location. No additional soil/fill was removed, as the analytical results represent an off-site condition. The concentrations detected in the four (4) sample locations slightly exceed their respective USCOs (4 locations) and/or RSCOs (1 location) but are within the threshold for land use conditions in the immediate area surrounding the Site (e.g. commercial) in these areas.

The IRM laboratory analytical data packages are included in Appendix E.

5.5 IRM Data Usability Summary

The laboratory analytical data from the IRM was also submitted for independent review by Data Validation Services, who performed the data usability summary assessment as outlined in Section 4.6.

In summary, the analytical results were usable either as reported or with minor qualification or edits, with the exception of 1,4-dioxane determined from the volatile analysis, which were rejected due to poor instrument responses that is inherent in the methodology (EPA Method 8260).

Additional qualifications of the data have been incorporated to the summary data tables. Appendix F includes the DUSR.

5.6 IRM Community Air Monitoring Program

During the IRM activities, real-time community air monitoring was performed during remedial activities at the Site (August 13, 2018 through October 15, 2018) in accordance with the Community Air Monitoring Plan (CAMP) included in the project health and safety plan (HASP). Particulate and VOC monitoring were performed downwind of the work areas at the Site in accordance with the CAMP.

There were no exceedances of the particulate and total volatile organic levels established during intrusive activities (e.g., soil/fill excavation and tank removals).

However, there were instances of VOC exceedances only on August 15th (10am to 1030am) and August 16th (intermittently from 830am to 1130am) which occurred the when the vacuum truck was removing the residual gasoline liquid contents from the 10,000-gallon UST and cleaning the 10,000-gallon UST, respectively. These short-term exceedances were attributed to the air released from within the vacuum tank on the truck.

The CAMP data has been included in Appendix C.

5.7 Monitoring Well Decommissioning

During the IRM, three (3) monitoring wells were excavated to removed impacted soil/fill to achieve the USCOs at the Site. Upon completion of the excavation activities in the areas of MW-1, MW-2 and MW-4 the wells were bailed dry and the portion of the PVC well remaining in the ground were filled with Portland cement to the top of the PVC in the excavation.

MW-3 remains on-Site and is anticipated to be encountered during excavation for redevelopment. When this occurs, the portion of the PVC well that will remain in the ground will be filled with Portland cement to the top of the PVC in the excavation, like the other three (3) wells discussed above.

6.0 FATE AND TRANSPORT OF COCS

The IRM excavation activities removed petroleum- and metals-impacted-soil/fill; nine (9) USTs, contents, and associated piping; three (3) hydraulic lifts and connects; and impacted water present in the vicinity of the UST-1 tank grave from the Site to achieve USCOs and a Track 1 unrestricted use cleanup. The results of the Phase II and RI soil/fill samples, RI groundwater samples, and the IRM post-excavation samples were used to evaluate the fate and transport of COCs in Site media. The mechanisms by which the COCs can migrate to other areas or media are briefly outlined below. In all instances, the potential pathways are evaluated in the context of post-IRM conditions.

6.1 Fugitive Dust Generation

Volatile and non-volatile chemicals present in soil can be released to ambient air because of fugitive dust generation. As described above, petroleum- and metals-impacted soil/fill was excavated and disposed off-site as part of the IRM activities to achieve a Track 1 unrestricted use cleanup. As the IRM excavation activities has removed the impacted soil/fill material from the Site, fugitive dust is not considered a pathway of concern for contaminant transport. Because the USCOs were achieve for the Site, no CAMP monitoring will be required for further intrusive activities.

6.2 Volatilization

Volatile chemicals present in soil/fill and groundwater may be released to ambient or indoor air. Volatile chemicals typically have a low organic-carbon partition coefficient (K_{oc}), low molecular weight, and a high Henry's Law constant.

Because the USCOs were achieve for the Site, volatile organics are not a concern for the Site and therefore volatilization is not considered a pathway of concern based on the results of the IRM activities which addressed the VOC-impacts identified. VOCs were not detected in the groundwater (except for carbon disulfide detected at MW-4 at 1.1 ug/l and does not have a GWQS.

Because the USCOs were achieved for the Site, no CAMP monitoring will be required for further intrusive activities.

6.3 Surface Water Runoff

The potential for soil/fill particle transport due to surface water runoff was very low and considered to be a short-term migration pathway for the Site prior to IRM activities.

Once the IRM activities began, the surface elevation of the Site was below the surface elevation of the surrounding properties, so surface water runoff was contained to the Site and could not migrate off-site. The only location during the IRM activities that the Site grade was the same elevation as an off-site location was at the construction entrance along Hertel Avenue. Benchmark-TurnKey maintained the construction entrance along Hertel Avenue to prevent surface water and sediment runoff.

As the IRM excavation activities has removed the petroleum- and metals-impacted soil/fill material from the Site to achieve an unrestricted use cleanup, and the Site grades are generally lower than the surrounding properties, surface water runoff is not considered a pathway of concern for contaminant transport.

6.4 Leaching

Leaching refers to chemicals present in soil/fill migrating downward to groundwater because of infiltration of precipitation. The Site was primarily hardscape and building footprint with the exception of a small amount of surface soil along the eastern and southern portions of the Site prior to the building demolition and IRM activities. Groundwater sample results from the RI indicated that low-levels of SVOCs and metals were detected in the groundwater above their respective GWQS. The SVOCs and metals that were detected above their respective GWQS were not detected in the soil/fill samples collected from the Site during the Phase II and/or RI. The detected SVOCs and metals are likely attributed to the Site's location within an urban setting and not associated with the Site.

The IRM activities removed the impacted soil/fill present at the Site to achieve an unrestricted use cleanup. Based on the IRM post-excavation sample analysis, no contaminants remain at the Site and leaching is not considered a pathway of concern.

6.5 Groundwater Transport

Overburden groundwater underlying the Site flows in a northwesterly direction towards the Niagara River. The results of the groundwater samples collected as part of the RI indicate low-level SVOCs and metals are present above their respective GWQS. No

VOC, PCB, pesticide and/or herbicide were detected above their respective GWQS. The SVOCs and metals detected above their GWQS were generally detected in all four (4) wells (including both upgradient wells (MW-1 and MW-4) installed at the Site and were not identified in the soil/fill samples collected at the Site as concerns. The exceedances detected in the groundwater are attributable to the urban nature of the Site and are ubiquitous in urban settings.

Due to the lack of Site-specific groundwater contamination and that petroleum- and metals-impacted soil/fill has been removed from the Site as part of the IRM to achieve an unrestricted use cleanup, groundwater transport is not considered a pathway of concern for contaminants that were formerly present at the Site.

6.6 Exposure Pathways

Based on the fate and transport analysis provided above, and IRM activities completed to achieve an unrestricted use cleanup, there are no relevant pathways or Site-specific contaminants remaining that could potentially reach receptors to create an exposure scenario. Therefore, are no exposure pathways associated with the Site in its current condition.

7.0 QUALITATIVE EXPOSURE ASSESSMENT

The Site soil/fill was primarily impacted with petroleum VOCs, SVOCs, and metals. SVOC and metals-impacts were generally present in the shallow soil/fill from ground surface to about 3 fbgs. Petroleum-VOC impacts were identified in subsurface soil/fill from around 2 to 13 fbgs. The IRM activities removed these impacts at the Site and have achieved a Track 1 unrestricted use cleanup by achieving the USCOs, and as such is fully protective of human health and the environment.

7.1 On-Site Potential Human Health Exposure

The objective of the IRM was to meet the USCOs and those objectives were achieved. The Site is planned for redevelopment with residential and some commercial use and is consistent with the surrounding property use and zoning.

Human contact with the Site which can be expected by construction workers involved in the redevelopment of the Site and trespassers who may traverse the property during redevelopment activities. However, as the USCOs were achieved by the IRM activities completed and low-level SVOCs and metals in groundwater are unrelated to Site-specific contamination and typical of urban setting, there are no contaminants at the Site to create a human health exposure scenario. We note that saturated soils, indicative of groundwater presence, were not encountered until approximately 21 fbgs and redevelopment excavations for the underground parking structure are not anticipated to exceed 16 fbgs.

7.2 On-Site Potential Ecological Exposure

The Site was formerly improved with a commercial gasoline and service station buildings, with asphalt and/or concrete surface cover over 90% of the Site in a highly developed area of the City of Buffalo. The Site provide little or no wildlife habitat or food value.

As the IRM has achieved the USCOs, and the proposed redevelopment will again consist primarily of building footprint and hardscape occupying the Site from boundary to boundary, no potential ecological exposure scenario exists.

7.3 Off-Site Potential Human Health Exposure

The IRM excavation activities completed removed the impacted soil/fill present at the Site to the limits of the BCP Site and approximately 2 feet beyond the property limits in the western and 6 to 8 inches in the northern portion of the Pump Island area excavation.

Based on the sidewall post-excavation sampling that was completed, there are three (3) sidewall sample locations two (1) along the western boundary (Pump Island SW-2R and Pump Island SW-3R), one (1) along the northern boundary (Pump Island SW-11R(1)) and one (1) sidewall sample location along the southern boundary (MA-SW-2) that have contaminant concentrations above the USCOs.

At Pump Island SW-2R, 1,2,4-trimethylbenze and total xylene were detected above their respective USCOs but below their respective Residential SCOs (RSCOs). The off-site area of the detections is present under hardscape and located between the Site and Parkside Avenue.

At Pump Island SW-3R, 1,2,4-trimethylbenze and total xylene were detected above their respective RSCOs but below their respective CSCOs. The off-site area of the detections is present under hardscape and located between the Site and Parkside Avenue.

At Pump Island SW-11R(1), acetone was detected above its USCO but below its RSCOs. The off-site area of the detection is present under hardscape and located between the Site and Hertel Avenue.

At MA-SW-2, manganese was detected above its USCO but below Residential SCO. The property to the south is a parking lot for a commercial facility and the detection is present under hardscape.

Human contact with the contaminants at these off-site locations is limited to construction workers who may work in these areas. Ingestion or direct contact with the impacted-soil exceeding the RSCOs (1 location Pump Island SW-3R) would provide an exposure pathway during construction activities. However, there is hardscape present over the areas and would not be a concern for the general public or trespassers.

7.4 Off-Site Potential Ecological Exposure

The properties to the north, south, east and west are highly developed and there is little to no animal habitat are surrounding properties, Parkside Avenue and Hertel Avenue are covered in hardscape.

Although there are contaminants present above the RSCOs at one (1) location, no potential ecological exposure scenario exists.

8.0 REMEDIAL ALTERNATIVES ANALYSIS

8.1 Remedial Action Objectives

The final remedial measures for the 1585 Hertel Avenue Site must satisfy Remedial Action Objectives (RAOs). Remedial Action Objectives are site-specific statements that convey the goals for minimizing or eliminating substantial risks to public health and the environment. Appropriate RAOs for the Site, per DER-10s generic RAOs appropriate for the Site include:

8.1.1 Soil/Fill RAOs

- Prevent ingestion of and/or direct contact with contaminated soil/fill.
- Prevent migration of contaminants that would result in groundwater and/or surface water contamination.

8.1.2 Groundwater RAOs

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent ingestion of and/or direct contact with groundwater containing contaminant levels exceeding SCGs.

8.1.3 Soil Vapor RAOs

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

In addition to achieving RAOs, NYSDEC's Brownfield Cleanup Program calls for remedy evaluation in accordance with DER-10 Technical Guidance for Site Investigation and Remediation. Specifically, the guidance states "When proposing an appropriate remedy, the person responsible for conducting the investigation and/or remediation should identify and develop a remedial action that is based on the following criteria..:"

- **Overall Protection of Public Health and the Environment**. This criterion is an evaluation of the remedy's ability to protect public health and the environment, assessing how risks posed through each existing or potential pathway of exposure are eliminated, reduced, or controlled through removal, treatment, engineering controls, or institutional controls.
- **Compliance with Standards, Criteria, and Guidance (SCGs)**. Compliance with SCGs addresses whether a remedy will meet applicable environmental laws, regulations, standards, and guidance.
- **Long-Term Effectiveness and Permanence**. This criterion evaluates the long-term effectiveness of the remedy after implementation. If wastes or treated residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: (i) the magnitude of the remaining risks (i.e., will there be any significant threats, exposure pathways, or risks to the community and environment from the remaining wastes or treated residuals), (ii) the adequacy of the engineering and institutional controls intended to limit the risk, (iii) the reliability of these controls, and (iv) the ability of the remedy to continue to meet RAOs in the future.
- **Reduction of Toxicity, Mobility or Volume with Treatment**. This criterion evaluates the remedy's ability to reduce the toxicity, mobility, or volume of Site contamination. Preference is given to remedies that permanently and significantly reduce the toxicity, mobility, or volume of the wastes at the Site.
- **Short-Term Effectiveness**. Short-term effectiveness is an evaluation of the potential short-term adverse impacts and risks of the remedy upon the community, the workers, and the environment during construction and/or implementation. This includes a discussion of how the identified adverse impacts and health risks to the community or workers at the Site will be controlled, and the effectiveness of the controls. This criterion also includes a discussion of engineering controls that will be used to mitigate short term impacts (i.e., dust control measures), and an estimate of the length of time needed to achieve the remedial objectives.

- **Implementation**. The implementation criterion evaluates the technical and administrative feasibility of implementing the remedy. Technical feasibility includes the difficulties associated with the construction and the ability to monitor the effectiveness of the remedy. For administrative feasibility, the availability of the necessary personnel and material is evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, etc.
- **Cost**. Capital, operation, maintenance, and monitoring costs are estimated for the remedy and presented on a present worth basis.
- **Community Acceptance**. This criterion evaluates the public's comments, concerns, and overall perception of the remedy.

8.2 Future Land Use Evaluation

In developing and screening remedial alternatives, NYSDEC's Part 375 regulations require that the reasonableness of the anticipated future land be factored into the evaluation. The regulations identify 16 criteria that must be considered. These criteria and the resultant outcome for the Site are presented below.

1. *Current use and historical and/or recent development patterns:* The Site was historically used as a commercial gasoline and automotive service station in a historically mixed residential and commercia area of the City of Buffalo. The Site is located in a Neighborhood Center according to the Land Use Plan of the Buffalo Green Code (Ref. 4). A Neighborhood Center is defined as mixed-use commercial areas at neighborhood scale and has zoning codes of N-2C, N-2E, N-3C or N-3E. The Site has a zoning code of N-3C.

   The planned redevelopment includes the construction of a mixed-use residential/commercial space improved with residential units and commercial retail use on the ground floor. **Accordingly, planned redevelopment is consistent with the historical and/or recent development patterns (Buffalo Green Code) and was approved by the City of Buffalo.**

2. *Applicable zoning laws and maps:* The Site is located in an area of the City of Buffalo identified as a Neighborhood Center which is a mixed-use commercial area at neighborhood scale. **Residential/commercial use is consistent with current zoning (Buffalo Green Code).**

3. *Brownfield opportunity areas as designated set forth in GML 970-r:* The Brownfield Opportunity Area (BOA) Program provides municipalities and community-based organizations with assistance to complete revitalization plans and implementation strategies for areas or communities affected by the presence of brownfield sites, and site assessments for strategic sites. **The Site does not lie within a BOA.**

4. *Applicable comprehensive community master plans, local waterfront revitalization plans as provided for in EL article 42, or any other applicable land use plan formally adopted by a municipality*: The Site is within an area zoned N-3C, which is a mixed-use commercial area at neighborhood scale. **Redevelopment is consistent with the Buffalo Green Code and will not require rezoning or change in use.**

5. *Proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural and recreational areas*: Commercial and residential properties are located to the north, south, east and west surrounding the Site. **Nearby and adjacent properties are mixed use, including residential and commercial. The proposed redevelopment does not change the previous land use for the Site and is consistent with local zoning and development plans.**

6. *Any written and oral comments submitted by members of the public on the proposed use as part of the activities performed pursuant to the citizen participation plan*: **No comments have been received from the public to date pursuant to the citizen participation plan.**

7. *Environmental justice concerns, which include the extent to which the proposed use may reasonably be expected to cause or increase a disproportionate burden on the community in which the site is located, including low-income minority communities, or to result in a disproportionate concentration of commercial or industrial uses in what has historically been a mixed use or residential community*: **Nearby and adjacent properties are currently a mixed-use commercial and residential. Redeveloping the Site in a residential-commercial capacity does not pose environmental justice issues.**

8. *Federal or State land use designations:* There are no known federal or state land use designations. The Site was remediated in the BCP to an unrestricted use cleanup level. The property is designated by the City of Buffalo Green Code as mixed-use land use. **Redevelopment is consistent with the current land use designation.**

9. *Population growth patterns and projections:* The City of Buffalo, encompassing approximately 40.38 square miles, has a population of 256,902 (2016 estimate - US Census Bureau), a decrease of 1.7 percent from the 2010 census. **Redevelopment is consistent with the past use and would not impact residential capacity.**

10. *Accessibility to existing infrastructure:* Access to the Site is from Hertel and Parkside Avenues. Utilities (sewer, water, electric, and gas) are present around the Site along Hertel and Parkside Avenues. **Existing infrastructure supports planned reuse**.

11. *Proximity of the site to important cultural resources, including federal or State historic or heritage sites or Native American religious sites*. Per the New York State Historical Preservation Office, there are two (2) historic districts located within 0.5 miles of the subject Site: North Park Historic District and Parkside Subdivision (East) Historic District. **The presence of these historical sites does not affect the future land use of the Site.**

12. *Natural resources, including proximity of the site to important federal, State or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species:* No State or Federal wetlands exist on the Site, nor is the Site the Site located within a rare plant and/or animal habitat. Scajaquada Creek is located approximately 1.4 miles southwest of the Site. The Site and adjacent properties are in a highly developed urbanized area that does provide a setting suitable for rare plant and/or animal habitats.

The absence of a suitable setting for ecological resources on or adjacent to the Site indicates that cleanup to unrestricted use conditions will not pose an ecological threat.

13. *Potential vulnerability of groundwater to contamination that might emanate from the site, including proximity to wellhead protection and groundwater recharge areas and other areas identified by the Department and the State's comprehensive groundwater remediation and protection program established set forth in ECL article 15 title 31:* Groundwater at the Site is assigned Class "GA" by 6NYCRR Part 701.15. Four (4) groundwater monitoring wells were installed during the RI. The results of the groundwater samples collected as part of the RI indicate low-level SVOCs and metals (iron, magnesium, manganese and sodium) are present above their respective GWQS. No VOC, PCB, pesticide and/or herbicide were detected above their respective GWQS. The SVOCs and metals detected above their GWQS were generally detected in all four (4) wells (including both upgradient wells (MW-1 and MW-4) and were not identified in the soil/fill samples collected at the Site as concerns. The exceedances detected in the groundwater are attributable to the urban nature of the Site and ubiquitous in urban settings. Regionally, groundwater has not been developed for industrial, commercial agriculture, or public supply purposes. Potable water service is provided by the local municipal water authority. **The absence of potable wells, wellhead protection, lack of site-specific groundwater contamination, and cleanup to unrestricted use conditions will not pose a threat to drinking water.**

14. *Proximity to flood plains:* The Erie County Internet Mapping System indicates that the Scajaquada Creek is located approximately 1.4-miles southwest of the Site, which is a designated flood zone. No flood zones are present on the property, and therefore there is a low risk of erosion due to flooding. **The IRM was completed to unrestricted use cleanup levels and redevelopment of the Site does not pose a threat to surface water.**

15. *Geography and geology:* The Site is located within the Lake Erie-Niagara River major drainage basin, which is typified by little topographic relief, except in the immediate vicinity of major drainage ways. According to the United States Department of Agriculture soil survey, Site soils are generally characterized as Urban Land (Uh) Churchville complex. This complex consists of nearly level areas of urban land and deep somewhat poorly drained Churchville soils, formed in clayey deposits underlain by glacial till.

    Based on the Phase II investigation and the RI, the Site consisted of fill material overlying native clayey soils. **The redevelopment plan is consistent with the geography and geology of the Site.**

16. *Current institutional controls applicable to the site:* **No institutional controls are currently present that would affect the proposed redevelopment.**

Based on the above analysis, planned reuse of the Site is consistent with past and current zoning/land use on and around the Site; and it does not pose additional environmental or human health risk. As indicated, this evaluation supports residential/commercial use as the reasonably anticipated future use of the Site, which is consistent with past use.

8.3 Alternatives Evaluation

The Site is intended to be used for residential/commercial purposes, the IRM effectively achieved an unrestricted use cleanup. Therefore, the only alternatives discussed in detail in this section is:

- No Further Action beyond that completed as an IRM; Unrestricted Use Cleanup

8.3.1 IRM/Unrestricted Use/No Further Action

Under this alternative, the Site would remain in its current state, with no additional controls in-place.

Overall Protection of Public Health and the Environment – The Site is fully protective of human health and the environment, based on the achieved level of cleanup (e.g., Unrestricted Use). Accordingly, no further action is protective of public health and satisfies the RAOs.

Compliance with SCGs – Under the current and reasonably anticipated future use scenario (residential/commercial), the concentrations of constituents detected in the soil remaining at the Site comply with applicable USCOs.

Although the groundwater contains some low-level SVOC and metals, exceedances detected in the groundwater are attributable to the urban nature of the Site and ubiquitous in urban settings. None of the exceedances were detected in the native soil underlying the Site during the Phase II or RI sampling completed.

Long-Term Effectiveness and Permanence – The no further action alternative involves no additional equipment, institutional controls or facilities subject to maintenance. Based on the extent of removal completed during the IRM, this alternative does provide long-term effectiveness, and achieves the RAOs.

Reduction of Toxicity, Mobility, or Volume with Treatment – The IRM completed at the Site has reduced the toxicity, mobility and volume of COCs. The IRMs were successful in achieving USCOs, and therefore this alternative is protective of public health and satisfies the RAOs.

Short-Term Effectiveness – No short-term adverse impacts and risks to the community, workers, or the environment are attributable to implementation of the no further action alternative.

Implementation – No technical or administrative implementation issues are associated with the no further action alternative.

Cost – The capital cost of implementing the RI and IRM was approximately $350,000. There would be no additional capital or long-term operation, maintenance, or monitoring costs associated with the no further action alternative.

Community Acceptance – The RI/IRM Work Plan was made available for comment from February 7, 2018 through March 24, 2018. No comments opposing the work were received. The Site was remediated to a Track 1 unrestricted use cleanup.

8.4 Recommended Remedial Measure

Based on the Alternatives Analysis evaluation, the completed IRM/No Further Action fully satisfies the remedial action objectives, achieved USCOs, and is therefore fully protective of human health and the environment.

Accordingly, the completed IRM/No Further Action is the recommended final remedial approach for the Site.

9.0 RI/IRM/AAR SUMMARY AND CONCLUSIONS

Based on the data and analyses presented in the preceding sections, we offer the following summary and conclusions:

- Based on the Phase II, RI, and IRM activities, petroleum- and metals-impacted soil/fill was present at the Site at depths ranging from ground surface to approximately 13.5 fbgs.

- The results of the groundwater samples collected as part of the RI indicate low-level SVOCs and metals are present above their respective GWQS. No VOC, PCB, pesticide and/or herbicide were detected above their respective GWQS. The SVOCs and metals (iron, magnesium, manganese and sodium) detected above their GWQS were generally detected in all four (4) wells (including upgradient wells (MW-1 and MW-4)) and were not identified in the soil/fill samples collected at the Site as concerns. The exceedances detected in the groundwater are attributable to the urban nature of the Site and ubiquitous in urban settings.

- The main components of the IRM implemented at the Site consisted of the demolition of the former service station building, decommissioning of the fire suppression system associated with the former pump island, removal of nine (9) USTs and contents; removal of three (3) hydraulic lifts and contents; and excavation and landfill disposal of approximately 3,046 tons of impacted soil/fill.

- Post-excavation confirmatory samples collected at the Site indicate the IRM has achieved a Part 375 unrestricted use cleanup by achieving the USCOs.

- One (1) off-site post-excavation sample, Pump Island SW-3R, had detections of 1,2,4-trimethylbenze and total xylene above their respective RSCOs but below their respective CSCOs. The off-site area of the detections is present under hardscape and located between the Site and Parkside Avenue.

- Based on the Alternatives Analysis evaluation, the completed IRM fully satisfies the remedial action objectives, achieved USCOs, and is fully protective of human health and the environment. Accordingly, the completed IRM/No Further Action is the recommended final remedial approach for the Site.

10.0 REFERENCES

1. Benchmark Environmental Engineering and Science, PLLC in association with TurnKey Environmental Restoration, LLC. *Remedial Investigation/Interim Remedial Measures Work Plan.* April 2018.

2. Benchmark Environmental Engineering and Science, PLLC. *Phase I Environmental Investigation, 1585 Hertel Avenue, Buffalo, New York.* October 20, 2017.

3. Benchmark Environmental Engineering and Science, PLLC. *Limited Phase II Environmental Investigation, 1585 Hertel Avenue, Buffalo, New York.* December 2017.

4. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation.* May 2010.

5. City of Buffalo. *Land Use Plan, City of Buffalo, Green Code.* September 2016.

TABLES

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF PHASE II SOIL/FILL SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

TURNKEY ENVIRONMENTAL RESTORATION, LLC

PARAMETER[1]	Unrestricted Use SCOs[2]	Restricted Residential Use SCOs[3]	Commercial Use SCOs[3]	SB-1 6-8	SB-2 0.5-2	SB-2 2-4	SB-3 2-4	SB-6 2-4	SB-7 1.5-3.5	SB-8 0.5-2.5	SS-1 0-0.2
				10/18/2017							
Highest Total Volatile Organic Field Readings - parts per million (ppm) mg/Kg											
Total Organic Vapors	--	--	--	**429**	62	38	0	5	**898**	**791**	--
Volatile Organic Compounds (VOCs) - mg/Kg [4]											
1,2,4-Trimethylbenzene	**3.6**	**52**	**190**	ND	--	--	0.0014 J	**12**	**190**	--	--
1,3,5-Trimethylbenzene	**8.4**	**52**	**190**	ND	--	--	0.0004 J	2.4	**50**	--	--
Benzene	**0.06**	**4.8**	**44**	ND	--	--	ND	ND	**3**	--	--
Ethylbenzene	**1**	**41**	**390**	0.0032 J	--	--	0.001 J	0.400 J	**41**	--	--
Isopropylbenzene (Cumene)	**2.3**	**--**	**--**	0.038	--	--	0.00088 J	0.240 J	**5.4**	--	--
Methyl tert butyl ether (MTBE)	**0.93**	**100**	**500**	0.0014 J	--	--	ND	ND	ND	--	--
n-Butylbenzene	**12**	**100**	**500**	0.065	--	--	0.0059	1.9	**18**	--	--
n-Propylbenzene	**3.9**	**100**	**500**	0.15	--	--	0.00095 J	1	**18**	--	--
p-Isopropyltoluene	**--**	**--**	**--**	ND	--	--	ND	0.220 J	2.2	--	--
sec-Butylbenzene	**11**	**100**	**500**	0.025	--	--	0.0066	0.290 J	ND	--	--
tert-Butylbenzene	**5.9**	**100**	**500**	0.0008 J	--	--	0.00077 J	ND	ND	--	--
Toluene	**0.7**	**100**	**500**	ND	--	--	0.00046 J	ND	**11**	--	--
Total Xylenes	**0.26**	**100**	**500**	0.0016 J	--	--	0.0035 J	**1.1 J**	**320**	--	--
Total Tentatively Identified Compounds	--	--	**--**	1.71	--	--	0.38	ND	ND	--	--
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [4]											
Benzo(ghi)perylene	**100**	**100**	**500**	--	0.21 J	--	ND	ND	--	ND	ND
Chrysene	**1**	**3.9**	**56**	--	ND	--	0.061 J	ND	--	ND	ND
Naphthalene	**12**	**100**	**500**	--	ND	--	ND	0.870 J	--	ND	ND
Total PCBS - mg/Kg											
	0.1	**1**	**1**	--	--	ND	--	--	--	--	ND
Total Metals - mg/Kg											
Arsenic	**13**	**16**	**16**	--	11.2	7.3	4.3	--	--	3.2	**164**
Barium	**350**	**400**	**400**	--	**488**	108 F1	135	--	--	157	**414**
Cadmium	**2.5**	**4.3**	**9.3**	--	0.29	ND	ND	--	--	ND	**3.6**
Chromium	**30**	**180**	**1500**	--	6.2	5.6	28.9	--	--	**35.9**	**39.7**
Lead	**63**	**400**	**1000**	--	**223**	7.2	15.8	--	--	45.7	**1030**
Mercury	**0.18**	**0.81**	**2.8**	--	ND	ND	ND	--	--	0.067	0.051
Selenium	**3.9**	**180**	**1500**	--	ND	ND	ND	--	--	ND	ND
Silver	**2**	**180**	**1500**	--	ND	ND	ND	--	--	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
2. Values per NYSDEC CP-51 Soil Cleanup Levels (SCL) and Part 375 Unrestricted Soil Cleanup Objectives (SCOs).
3. Values per NYSDEC Part 375 Restricted Use Soil Cleanup Objectives (SCOs).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter; Parameter not analysed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
F1 = MS/MSD RPD exceeds control limits

Bold	= Result exceeds Unrestricted Use SCOs.
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.

TABLE 2

REMEDIAL INVESTIGATION SAMPLING AND ANALYSIS PROGRAM SUMMARY

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

Date	Remedial Investigation Location	Sample Interval	Sample Matrix	Full List VOCs [1]	VOC TICS	TCL SVOCs	SVOC TICS	TAL Metals	PCBs	Pesticides	Herbicides	Emergent Contaminants (1,4-Dioxane & PFAS)	Notes
Soil/Fill Samples													
6/19/2018	SS-2	0 - 2 inches	Surface Fill			X		X	X	X	X		
6/19/2018	SS-3	0 - 2 inches	Surface Fill			X		X	X	X	X		
6/14/2018	SB-9	0 - 3 feet	Subsurface Fill	X	X	X	X	X	X	X	X		
6/14/2018	SB-9	4 - 8 feet	Native	X	X	X	X	X					
6/14/2018	SB-10	0 - 0.5 feet	Subsurface Fill	X	X	X	X	X					
6/14/2018	SB-10	12 - 16 feet	Native	X		X		X	X	X	X		
6/14/2018	SB-11	0 - 0.5 feet	Subsurface Fill	X		X		X	X	X	X		
6/14/2018	SB-11	16 - 20 feet	Native	X		X		X	X	X	X		
6/14/2018	SB-12	0 - 4 feet	Subsurface Fill	X	X	X	X	X	X	X	X		
6/14/2018	SB-12	4 - 8 feet	Native	X		X		X					
6/14/2018	SB-13	0 - 1 foot	Subsurface Fill	X		X		X					
6/14/2018	SB-13	8 - 12 feet	Native	X	X	X	X	X	X	X	X		Duplicate
6/14/2018	SB-14	0 - 0.5 feet	Subsurface Fill	X		X		X					
6/14/2018	SB-14	12 - 16 feet	Native	X		X		X	X	X	X		MS/MSD
6/15/2018	MW-1	0 - 2 feet	Subsurface Fill	X		X		X	X	X	X		
6/15/2018	MW-1	8 - 12 feet	Native	X		X		X					
6/15/2018	MW-2	0 - 2 feet	Subsurface Fill	X		X		X	X	X	X		
6/15/2018	MW-2	12 - 16 feet	Native	X		X		X					
6/15/2018	MW-3	0 - 2 feet	Subsurface Fill	X		X		X	X	X	X		
6/15/2018	MW-3	4 - 8 feet	Native	X		X		X					
6/15/2018	MW-4	4 - 4.5 feet	Subsurface Fill	X		X		X	X	X	X		
6/15/2018	MW-4	8 - 10 feet	Native	X		X		X					
Groundwater Samples													
7/18/2018	MW-1	NA	Groundwater	X		X		X	X	X	X		
7/18/2018	MW-2	NA	Groundwater	X		X		X	X	X	X	X	MS/MSD & Duplicate
7/18/2018	MW-3	NA	Groundwater	X		X		X	X	X	X		
7/18/2018	MW-4	NA	Groundwater	X		X		X	X	X	X	X	

Notes:

1. Full List VOCs includes TCL VOCs plus CP-51 List VOCs via Method 8260.

Acronyms:

VOCs = volatile organic compounds
TICS = Tentative Indentified Compounds
SVOCs = semi-volatile organic compounds
TCL = Target Compound List
TAL = Target Analyte List
PCBs = Polychlorinated Biphenyls
NA = Not Applicable
PFAS = per- and polyfluoroalkyl substances

TABLE 3

REMEDIAL INVESTIGATION SOIL BORING OBSERVATION SUMMARY

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

Location	Date	Total Depth (fbgs)	Depth to Water (fbgs)	Visual/ Olfactory (depth, fbgs)	PID Readings (ppm)	Core Barrel or Split Spoon (CB/SS)	Fill Thickness (fbgs)	Sample Depths (fbgs)	Description (ASTM D2488: Visual-Manual Procedure)
MW-1	6/15/2018	32.0	21.0	none	0.0	CB (0.0 to 20.0) SS (20.0 to 32.0)	0.0 - 2.0	(0.0 - 2.0) (8.0 - 12.0)	**0.0 - 4.0 - Fill:** Grey/Brown, wet (4.0), mostly fine sand and gravel mixed with greddish brown sandy clay. **4.0 - 6.0 - Poorly Graded Fine Sand:** Brown, wet, mostly fine sand, trace non-plastic fines, loose when disturbed. **6.0 - 16.0 - Lean Clay with Sand:** Reddish brown, hard, mostly medium plasticty fines, few fine sand, trace fine gravel (sub-rounded), massive. **16.0 - 32.0 - Lean Clay:** Reddish brown, wet (21.0 fbgs), mostly medium plasticty fines, trace fine sand, trace fine gravel (sub-rounded), soft.
MW-2	6/15/2018	55.0	21.0	Petroleum odor upper 2.0 fbgs	5.0 at 0.5 fbgs 1.2 at 1.0 fbgs 0.3 at 2.5 fbgs 0.1 at 3.5 fbgs	CB (0.0 to 20.0) SS (20.0 to 55.0)	0.0 - 2.0 fbgs	(0.0 -2.0) (12.0-16.0)	**0.0 - 2.0 - Fill:** Grey, moist, mostly fine gravel (limestone), with grey sandy lean clay, slight petroleum odor. **2.0 - 14.0 - Lean Clay with Sand:** Reddish Brown, moist mostly, medium plasticty fines, little fine sand, hard, massive. **14.0 - 55.0 - Lean Clay:** Reddish brown, wet (21.0 fbgs), mostly medium plasticty fines, trace fine sand, trace fine gravel (sub-rounded), soft.
MW-3	6/15/2018	32.0	21.0	none	0.8 at 1.0 fbgs 0.6 at 1.5 ppm	CB (0.0 to 20.0) SS (20.0 to 32.0)	0.0 - 2.0	(0.0 -2.0) (4.0 - 8.0)	**0.0 - 2.0 - Fill:** Grey, moist, mostly fine gravel (limestone), with grey sandy lean clay. **2.0 - 14.0 - Lean Clay with Sand:** Reddish Brown, moist mostly, medium plasticty fines, little fine sand, hard, massive. **14.0 - 32.0 - Lean Clay:** Reddish brown, wet (21.0 fbgs), mostly medium plasticty fines, trace fine sand, trace fine gravel (sub-rounded), soft.
MW-4	6/15/2018	32.0	21.0	Petroleum odor upper 8.0 fbgs.	10 ppm to 32 ppm on auger cuttings(0.0 - 8.0 fbgs)	CB (0.0 -20.0) SS (20.0 - 32.0)	0.0 - 4.0	(4.0 - 4.5) (8.0 - 10.0)	**(0.0 - 4.5) Fill:** Brown/black, mostly non-plastic fines with some sand and gravel (angular and sub-rounded) mixed with clay, perched water (2.0 fbgs). **(4.5 - 16.0) - Lean Clay with Sand:** Reddish brown, hard, mostly medium plasticty fines, few fine sand, trace fine gravel (sub-rounded), massive, slight petroleum oder to 8.0 fbgs. (**16.0 - 32.0) - Lean Clay:** Reddish brown, wet (21.0 fbgs), mostly medium plasticty fines, trace fine sand, trace fine gravel (sub-rounded), soft
SB-9	6/14/2018	20.0	none	petroleum odor	55 at 3.0 fbgs 20 at 5.0 fbgs 8 ppm at 7.5 fbgs 7.1 ppm at 16.5 fbgs	CB	0.0 - 4.0	(0.0 - 3.0) (4.0 - 8.0)	**(0.0 - 0.5) - Concrete:** Former pump island. **(0.5 - 4.0) Sandy Lean Clay** - Grey, mostly medium plasticity fines, some fine sand, massive, stiff, strong petroleum like odor. **(4.0 - 16.0) - Lean Clay with Sand:** Reddish brown, hard, mostly medium plasticty fines, few fine sand, trace fine gravel (sub-rounded), massive, slight petroleum oder to 16.0 fbgs. **(16.0 - 20.0) - Lean Clay:** Reddish brown, wet (21.0 fbgs), mostly medium plasticty fines, trace fine sand, trace fine gravel (sub-rounded), soft
SB-10	6/14/2018	20.0	none	slight petroleum	5.0 ppm at 0.5 fbgs	CB	0.0 - 1.0	(0.0 - 0.5) (12.0 - 16.0)	**(0.0 - 1.0) Fill:** Grey, moist, mostly fine gravel (angular limestone), some coarse to fine sand, trace non-plastic fines, slight petroleum odor. **(1.0 - 16.0) - Lean Clay with Sand:** Reddish brown, hard, mostly medium plasticty fines, few fine sand, trace fine gravel (sub-rounded), massive. **(16.0 - 20.0) - Lean Clay:** Reddish brown, wet (21.0 fbgs), mostly medium plasticty fines, trace fine sand, trace fine gravel (sub-rounded), soft.
SB-11	6/14/2018	20.0	none	none	0.0	CB	0.0 - 4.0	(0.0 - 0.5) (16.0 - 20.0)	**(0.0 - 4.0) Poorly Graded Fine Sand with Gravel:** Brown, moist, mostly fine sand with little fine gravel (sub-rounded), loose. **(1.0 - 16.0) - Lean Clay with Sand:** Reddish brown, hard, mostly medium plasticty fines, few fine sand, trace fine gravel (sub-rounded), massive. **(16.0 - 20.0) - Lean Clay:** Reddish brown, wet (21.0 fbgs), mostly medium plasticty fines, trace fine sand, trace fine gravel (sub-rounded), soft.
SB-12	6/14/2018	20.0	3.0 perched	Slight petoroleum odor	0.2 at 1.0 fbgs	CB	0.0 - 5.0	(0.0 - 4.0) (4.0 - 8.0)	**(0.0 - 1.0) - Concrete:** Former building slab. **(1.0 - 5.0) - Fill:** grey, wet (3.0 fbgs), mostly fine sand and gravel. petroloeum like odor. **(5.0 - 8.0) - Sandy Lean Clay** - Grey, mostly medium plasticity fines, some fine sand, massive, stiff, slight petroleum like odor. **(8.0 - 20.0) - Lean Clay:** Reddish brown, hard to firm, mostly medium plasticty fines.
SB-13	6/14/2013	20.0	NA	none	0.0	CB	0.0 - 2.0	(8.0 - 12.0)	**(0.0 - 1.0) - Concrete:** Former building slab. **(1.0 - 2.0) - Poorly Graded Fine Sand:** Brown, wet, mostly fine sand, trace non-plastic fines, loose when disturbed. **(2.0 - 20.0) - Lean Clay:** Reddish brown, hard to firm, mostly medium plasticty fines.
SB-14	6/14/2013	20.0	NA	none	0.0	CB	0.0 - 2.0	(0.0 -0.5) (12.0 - 16.0)	**(0.0 - 1.0) - Concrete:** Former building slab. **(1.0 - 2.0) - Poorly Graded Fine Sand:** Brown, wet, mostly fine sand, trace non-plastic fines, loose when disturbed. **(2.0 - 20.0) - Lean Clay:** Reddish brown, hard to firm, mostly medium plasticty fines.

TABLE 4

REMEDIAL INVESTIGATION MONITORING WELL CONSTRUCTION DETAILS

REMEDIAL INVESTIGATION/INTERIM REMEDIAL MEASURE/ALTERNATIVE ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

Well Identification			Well Elevations				Well Diameter (inches)	Well Screen Data		
Well Number	Well Type	Date Completed	TOR Elevation (fmsl)	Ground Elevation (fmsl)	Total Depth (fbTOR)	Bottom of Well Elevation (fmsl)		Length of Well Screen (feet)	Screen Interval (fmsl)	Screen Interval (fbTOR)
MW-1	OB	06/19/2018	500.70	501.22	31.70	469.00	2	10	479.52 to 469.52	21.70 to 31.70
MW-2	OB	06/20/2018	499.58	500.39	53.28	446.30	2	30	477.11 to 447.11	23.28 to 53.28
MW-3	OB	06/21/2018	500.39	500.87	31.98	32.00	2	10	478.89 to 468.89	21.98 to 31.98
MW-4	OB	06/21/2018	502.06	502.50	32.38	469.68	2	10	480.12 to 470.12	22.38 to 32.38

Abbreviations:

DTW = depth to water
fbgs = feet below ground surface
fbTOR = feet below top of riser
fmsl = feet above mean sea level
OB = unconsolidated overburden
TOR = top of riser

Notes:

Monitoring wells were surveyed on 8/3/18

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 5

SUMMARY OF REMEDIAL INVESTIGATION SURFACE SOIL/FILL SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION/INTERIM REMEDIAL MEASURE/ALTERNATIVE ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

PARAMETER[1]	Unrestricted Use SCO's[2]	Restricted Residential Use SCO's[3]	Commercial Use SCO's[3]	Industrial Use SCO's[3]	SAMPLE LOCATION (DEPTH)	
					SS-2 0-2 inches	SS-3 0 - 2 inches
					6/19/2018	6/19/2018
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [4]						
2-Methylnaphthalene	--	--	--	--	0.15 J	ND
3-Methylphenol/4-Methylphenol	**0.33**	**100**	**500**	**1000**	**0.5 J**	ND
Acenaphthene	**20**	**100**	**500**	**1000**	1.3	ND
Acenaphthylene	**100**	**100**	**500**	**1000**	0.58 J	ND
Acetophenone	--	--	--	--	0.12 J	0.19 J
Anthracene	**100**	**100**	**500**	**1000**	4.9	0.28 J
Benzaldehyde	--	--	--	--	0.23 J	0.61 J
Benzo(a)anthracene	**1**	**1**	**5.6**	**11**	**18**	**1.5**
Benzo(a)pyrene	**1**	**1**	**1**	**1.1**	**29**	**2.1**
Benzo(b)fluoranthene	**1**	**1**	**5.6**	**11**	**35**	**3.8**
Benzo(ghi)perylene	**100**	**100**	**500**	**1000**	28	2.1
Benzo(k)fluoranthene	**0.8**	**3.9**	**56**	**110**	**12**	**1.2**
Bis(2-ethylhexyl) phthalate	--	--	--	--	0.52 J	0.52 J
Carbazole	--	--	--	--	2.7	0.36 J
Chrysene	**1**	**3.9**	**56**	**110**	**24**	**2.7**
Dibenzo (a,h)anthracene	**0.33**	**0.33**	**0.56**	**1.1**	**6.2**	**0.41 J**
Dibenzofuran	**7**	**59**	**350**	**1000**	0.78 J	ND
Fluoranthene	**100**	**100**	**500**	**1000**	51	4.4
Fluorene	**30**	**100**	**500**	**1000**	1.7	0.093 J
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	**5.6**	**11**	**29**	**2.1**
Naphthalene	**12**	**100**	**500**	**1000**	0.25 J	ND
Phenanthrene	**100**	**100**	**500**	**1000**	28	1.5
Pyrene	**100**	**100**	**500**	**1000**	42	3.5
Total PCBs - mg/Kg [4]						
Aroclor 1254	**0.1**	**1**	**1**	**25**	0.0533 J	0.0701
Aroclor 1260	**0.1**	**1**	**1**	**25**	0.0224 J	0.0253 J
Total PCBs	**0.1**	**1**	**1**	**25**	0.0757 J	0.0954 J
Total Metals - mg/Kg						
Aluminum	--	--	--	--	3860	4710
Antimony	--	--	--	--	3.75 J+	2.17 J+
Arsenic	**13**	**16**	**16**	**16**	6.94	7.54
Barium	**350**	**400**	**400**	**10000**	125	148
Beryllium	**7.2**	**72**	**590**	**2700**	0.435 J	0.269 J
Cadmium	**2.5**	**4.3**	**9.3**	**60**	1.76 J	**7.45**
Calcium	--	--	--	--	53400	27900
Chromium	**30**	**180**	**1500**	**6800**	**45.9**	**47**
Cobalt	--	--	--	--	3.95 J	20
Copper	**50**	**270**	**270**	**10000**	**253**	**201**
Iron	--	--	--	--	20500	12500
Lead	**63**	**400**	**1000**	**3900**	**285**	**801**
Magnesium	--	--	--	--	6820	8540
Manganese	**1600**	**2000**	**10000**	**10000**	397	359
Mercury	**0.18**	**0.81**	**2.8**	**5.7**	0.153 J	**3.14**
Nickel	**30**	**310**	**310**	**10000**	21.3	**42**
Potassium	--	--	--	--	1070	658
Selenium	**30**	**180**	**1500**	**10000**	0.973 J	1.44 J
Sodium	--	--	--	--	508	235 J
Vanadium	--	--	--	--	6.42	17.2
Zinc	**109**	**10000**	**10000**	**10000**	**844**	**10000**
Pesticides - mg/Kg [4]						
	--	--	--	--	ND	ND
Herbicides - mg/Kg [4]						
	--	--	--	--	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Unrestricted Soil Cleanup Objectives (SCOs), Table 375-6(a).
3. Values per NYSDEC Part 375 Restricted Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter, or the parameter was not analysed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

BOLD	= Result exceeds Unrestricted use SCO's.
BOLD	= Result exceeds Restricted Residential use SCO's.
BOLD	= Result exceeds Commercial use SCO's.
BOLD	= Result exceeds Industrial use SCO's.

TABLE 6

SUMMARY OF REMEDIAL INVESTIGATION SUBSURFACE SOIL/FILL SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION/INTERIM REMEDIAL MEASURE/ALTERNATIVE ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

PARAMETER[1]	Unrestricted Use SCO's[2]	Residential Use SCO's [3]	SAMPLE LOCATION (DEPTH)																			
			MW-1 0-2'	MW-1 8-12'	MW-2 0-2'	MW-2 12-16'	MW-3 0-2'	MW-3 4-8'	MW-4 4-4.5'	MW-4 8-10'	SB-9 0-3'	SB-9 4-8'	SB-10 0-0.5'	SB-10 12-16'	SB-11 0-0.5'	SB-11 16-20'	SB-12 0-4'	SB-12 4-8'	SB-13 0-1'	SB-13 8-12'	SB-14 0-0.5'	SB-14 12-16'
			6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018
Volatile Organic Compounds (SVOCs) - mg/Kg [4]																						
1,2,4-Trimethylbenzene	**3.6**	**47**	ND	ND	0.094	0.00054 J	ND	ND	0.062	7.9	0.29	0.00045 J	ND	ND	ND	ND	0.0045	0.0048	0.00092 J	ND	ND	ND
1,3,5-Trimethylbenzene	**8.4**	**47**	ND	ND	0.028	0.00018 J	ND	ND	0.013	1.9	0.047 J	ND	ND	ND	ND	ND	0.002 J	0.0018 J	0.00043 J	ND	ND	ND
1,4-Dichlorobenzene	**1.8**	**9.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00037 J	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	**1.1**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0003 J	ND	ND	ND	ND
2-Butanone	**--**	**--**	ND	ND	0.0037 J	ND	ND	ND	0.0059 J	ND	ND	ND	ND	ND	ND	0.0056 J	ND	0.013 J	0.018 J	ND	0.0031 J	ND
Acetone	**0.05**	**100**	ND	0.008 J	0.02	ND	0.013 J	ND	0.031	ND	ND	0.047	ND	0.01	ND	ND	0.032	**0.063**	**0.12**	ND	0.02	ND
Benzene	**0.06**	**2.9**	0.00022 J	ND	ND	ND	ND	ND	0.00094	**0.065**	0.018 J	ND	ND	ND	ND	ND	ND	0.0005 J	ND	ND	ND	ND
Chloroform	**0.37**	**10**	ND	ND	0.00055 J	0.00016 J	ND	0.00021 J	0.0014 J	ND	ND	ND	0.00032 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlororbenzene	**1.1**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0012	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**0.25**	**59**	0.0017	0.00018 J	0.0013 J	0.00059 J	0.00027 J	0.0011 J	0.011	**0.3**	ND	ND	ND	ND	ND	ND	0.0012 J	0.0076	ND	ND	ND	ND
Cyclochexane	**--**	**--**	ND	ND	ND	ND	ND	ND	0.0022 J	0.49 J	ND	ND	ND	ND	ND	ND	ND	0.00097 J	ND	ND	ND	ND
Ethylbenzene	**1**	**30**	ND	ND	0.0022	ND	0.00042 J	ND	0.0087	**1.6**	0.54	0.25 J	ND	ND	ND	ND	0.00062 J	0.00059 J	ND	ND	ND	ND
Isopropylbenzene	**--**	**--**	ND	ND	0.0011 J	ND	ND	ND	0.0014 J	0.24	0.16	ND	ND	ND	ND	ND	0.00028 J	0.00055 J	ND	ND	ND	ND
Methyl Acetate	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	0.22 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	**--**	**--**	ND	ND	0.00092 J	ND	ND	ND	0.0016 J	0.36 J	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	**0.93**	**62**	ND	ND	ND	ND	0.00043 J	0.0016 J	ND	ND	ND	0.0019 J	ND	ND	ND	0.0028 J	ND	ND	ND	ND	ND	ND
n-Butylbenzene	**12**	**100**	ND	ND	0.00075 J	ND	ND	ND	0.0018	0.32	0.94	ND	ND	ND	ND	ND	0.0013 J	0.00093 J	ND	ND	ND	ND
n-Propylbenzene	**3.9**	**100**	ND	ND	0.0015	ND	ND	ND	0.0054	0.91	0.82	0.00018 J	ND	ND	ND	ND	0.0009 J	0.0016	ND	ND	ND	ND
p-Isopropytoluene	**--**	**--**	ND	ND	0.0011 J	ND	ND	ND	0.00043 J	0.068 J	0.016 J	ND	ND	ND	ND	ND	0.00041 J	0.00041 J	ND	ND	ND	ND
sec-Butylbenzene	**11**	**100**	ND	ND	0.00047 J	ND	ND	ND	0.00061 J	0.11	0.26	ND	ND	ND	ND	ND	0.00054 J	0.00054 J	ND	ND	ND	ND
Tetrachloroethene	**1.3**	**19**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00059 J	ND	ND	ND	ND	ND
Trichloroethene	**0.47**	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00033 J	ND	0.00037 J	ND	ND	ND
Toluene	**0.7**	**100**	ND	ND	ND	ND	ND	ND	0.004	0.56	ND	ND	ND	ND	ND	ND	0.002	0.00086 J	ND	ND	ND	ND
Total Xylenes	**0.26**	**100**	ND	ND	0.00706 J	ND	0.000243 J	ND	0.051	**8.7**	0.19	ND	ND	ND	ND	ND	0.0034 J	0.00238 J	ND	ND	ND	ND
Total TICs	**--**	**--**	--	--	--	--	--	--	--	--	41.8 NJ	ND	0.00368 J	--	--	--	0.275	--	--	0.00669 J	--	--
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [4]																						
2-Methylnaphthalene	**--**	**--**	ND	ND	ND	0.034 J	ND	ND	0.027 J	1.4	1.2	0.26	0.13 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	**20**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	**100**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	**1**	**1**	ND	ND	ND	ND	ND	0.052 J	ND	0.27 J	0.021 J	ND	0.46	ND	0.44	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	**1**	**1**	ND	ND	ND	ND	ND	0.052 J	ND	0.28 J	ND	ND	0.29	ND	0.39 J	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	**1**	**1**	0.052 J	ND	ND	ND	ND	0.077 J	ND	0.35 J	ND	ND	0.63	ND	0.68	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	**100**	**100**	0.047 J	ND	ND	ND	ND	0.043 J	ND	0.36 J	ND	ND	0.2	ND	0.43 J	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	**0.8**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	0.22 J	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.095 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	ND	0.1 J	ND	ND	ND	ND	ND	ND	ND
Chrysene	**1**	**1**	0.035 J	ND	ND	ND	ND	0.052 J	ND	0.25 J	ND	ND	0.75	ND	0.57	0.02 J	ND	ND	ND	ND	ND	ND
Dibenzofuran	**7**	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h)anthracene	**0.33**	**0.33**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.053 J	ND	0.072 J	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**100**	**100**	ND	ND	ND	0.049 J	0.023 J	0.089 J	ND	0.42 J	ND	ND	2.6	ND	1.4	0.026 J	ND	ND	ND	ND	ND	ND
Fluorene	**30**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	ND	ND	ND	ND	ND	0.042 J	ND	0.23 J	ND	ND	0.22	ND	0.33 J	ND	ND	ND	ND	ND	ND	ND
NDPA/DPA	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.027 J	ND	ND	ND	ND
Naphthalene	**12**	**100**	ND	ND	ND	ND	ND	ND	0.038 J	0.9 J	1.3	0.051 J	0.067 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**100**	**100**	ND	ND	ND	0.038 J	ND	ND	ND	0.31 J	ND	ND	2	ND	0.47	ND	ND	ND	ND	ND	ND	ND
Pyrene	**100**	**100**	0.033 J	ND	ND	0.041 J	0.022 J	0.083 J	ND	0.44 J	ND	ND	1.8	ND	1.4	0.026 J	ND	ND	ND	ND	ND	ND
Total TICs	**--**	**--**	--	--	--	--	--	--	--	--	9.51 NJ	1.12 NJ	2.06 J	--	--	--	0.177 NJ	--	--	1.6 J	--	--

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 6

SUMMARY OF REMEDIAL INVESTIGATION SUBSURFACE SOIL/FILL SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION/INTERIM REMEDIAL MEASURE/ALTERNATIVE ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

PARAMETER[1]	Unrestricted Use SCO's[2]	Residential Use SCO's [3]	SAMPLE LOCATION (DEPTH)																			
			MW-1 0-2'	MW-1 8-12'	MW-2 0-2'	MW-2 12-16'	MW-3 0-2'	MW-3 4-8'	MW-4 4-4.5'	MW-4 8-10'	SB-9 0-3'	SB-9 4-8'	SB-10 0-0.5'	SB-10 12-16'	SB-11 0-0.5'	SB-11 16-20'	SB-12 0-4'	SB-12 4-8'	SB-13 0-1'	SB-13 8-12'	SB-14 0-0.5'	SB-14 12-16'
			6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018
Total PCBs - mg/Kg [4]																						
Aroclor 1254	--	--	ND	--	ND	--	0.00392 J	--	0.00443 J	--	ND	--	--	ND	ND	ND	0.0083 J	--	--	ND	--	ND
Aroclor 1260	--	--	0.00865 J	--	ND	--	ND	--	ND	--	ND	--	--	ND	0.00618 J	ND	ND	--	--	ND	--	ND
Total PCBs	**0.1**	**1**	0.00865 J	--	ND	--	0.00392 J	--	0.00443 J	--	ND	--	--	ND	0.00618 J	ND	0.0083 J	--	--	ND	--	ND
Total Metals - mg/Kg																						
Aluminum	--	--	7,630	4,690	12,000	9,410	16800	9770	10700	10100	8310	8420	10300	8000	2300	1630	3170	3310	13300	8190	10200	9020 J+
Antimony	--	--	1.21 J	0.734 J	0.462 J	0.984 J	0.951 J	0.978 J	1.07 J	1.14 J	0.649 J	0.493 J	0.954 J	0.514 J	ND	ND	ND	ND	ND	0.75 J	0.688 J	1.01 J
Arsenic	**13**	**16**	6.02	3.5	1.27	3.31	3.87	4.58	3.49	3.82	2.41	2.74	3.12	1.06	2.6	2.53	1.3	1.48	1.57	1.55	ND	1.69
Barium	**350**	**350**	67	38.9	108	79.5	134	117	97.8	83.7	80	39.9	133	67.8	22.6	14.6	23.2	24.2	97.5	73.9	64.3	74.5 J+
Beryllium	**7.2**	**14**	0.402 J	0.261 J	0.507 J	0.424 J	0.856	0.458	0.577	0.523	0.329 J	0.377 J	0.612	0.325 J	0.137 J	0.044 J	0.102 J	0.097 J	0.55	0.34 J	0.404 J	0.356 J
Cadmium	**2.5**	**2.5**	ND	ND	ND	ND	ND	ND	ND	ND	0.485 J	0.511 J	0.636 J	0.478 J	0.282 J	0.186 J	0.462 J	0.457 J	0.408 J	0.523	0.482 J	0.505 J
Calcium	--	--	121000	116000	3370	54200	4440	94400	57100	122000	84400	75000	20800	61300	44400	89200	73200	72600	8500	80800	60700	65600
Chromium	**30**	**36**	11.4	8.62	15.6	20.5	22.1	14.7	17.2	14.7	12.4	13	13	12.7	4.51	3.55	6.05	5.58	14.8	12.9	15.1	14.1
Cobalt	--	--	5.95	3.52	6.42	7.17	10	8.22	7.54	7	6.41	9.08	7.88	6.65	1.85	2.11	2.66	2.65	4.81	6.22	5.42	5.29
Copper	**50**	**270**	21.6	16.6	13.8	20.5	26.8	21.7	33.3	24.3	18.1	22.3	18.6	17.6	7.84	5.5	10.6	10.1	11.9	19.1	17.4	16.6
Iron	--	--	21200	10200	15000	19400	28700	21100	19600	16400	16100	18200	19900	15800	4310	4410	7870	7600	12600	16800	15800	16600
Lead	**63**	**400**	54	40.2	8.91	8.9	10.8	8.75	33.1	28.4	9.55	6.77	15.2	8.35	26.2	7.95	13.4	7.73	22.2	8.53	7.49	7.92
Magnesium	--	--	20900	20400	4160	15600	6210	20400	13700	8420	14200	15100	5160	15800	4110	4880	18500	19500	3420	15500	15100	15900 J+
Manganese	**1600**	**2000**	505	304	172	438	583	510	502	362	442	440	374	397	160	129	228	219	198	390	312	384 J+
Mercury	**0.18**	**0.81**	0.031 J	0.023 J	0.017 J	ND	0.018 J	ND	0.023 J	0.024 J	0.031 J	0.027 J	0.041 J	0.019 J	0.021 J	0.018 J	0.02 J	0.019 J	0.065 J	0.016 J	0.018 J	0.018 J
Nickel	**30**	**140**	16.5	8.78	16.6	18	25.9	19	18.2	17.3	13.7	13.9	16.5	14.6	6.57	5.12	5.49	5.72	12.1	15	15.2	14.4
Potassium	--	--	1010	612	834	1480	1240	1250	1500	1280	1190	1110	1000	1260	302	225	573	463	825	1150	1030	1400
Sodium	--	--	237	221	326	168 J	398	186	142 J	142 J	192	201	345	165 J	103 J	109 J	318	168 J	171 J	155 J	150 J	176 J
Thallium	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	--	--	16.3	11.8	16.2	20.8	31.9	22.1	21	19.6	17.1	16.6	20.3	17	5.1	4.83	9.13	9.01	15.6	17.6	17	17.3
Zinc	**109**	**2200**	**4430**	**114**	63.8	69.8	89.2	60.5	91.7	85.4	53.3	56.1	57.6	47.3	39.2	19	54.2	49.6	107	59.8	57.5	74.8
Pesticides - mg/Kg [4]																						
4,4'-DDE	**0.0033**	**8.9**	ND	--	ND	--	ND	--	ND	--	ND	--	--	ND	ND	0.000472 J	ND	--	--	ND	--	ND
Herbicides - mg/Kg [4]																						
	--	--	ND	--	ND	--	ND	--	ND	--	ND	--	--	ND	ND	ND	ND	--	--	ND	--	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Unrestricted Soil Cleanup Objectives (SCOs), Table 375-6(a).
3. Values per NYSDEC Part 375 Residential Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

Definitions:

TICs = Tentitively Identifed Compounds
ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter, or the parameter was not analysed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
J+ = The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
NJ = The dection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

BOLD = NYSDEC Part 375 exceedes Unrestricted SCOs
BOLD = NYSDEC Part 375 exceedes Residential SCOs

TABLE 7

SUMMARY OF REMEDIAL INVESTIGATION GROUNDWATER SAMPLE ANALYSIS RESULTS
REMEDIAL INVESTIGATION
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

PARAMETER [1]	GWQS [2]	MW-1	Q	MW-2	Q	MW-3	Q	MW-4	Q
		7/18/2018		7/18/2018		7/18/2018		7/18/2018	
Volatile Organic Compounds (VOCs) - ug/l									
Carbon Disulfide	--	ND		ND		ND		1.1	J
Total VOCs	--	0	J	0	J	0	J	1.1	J
TICs	--	NT		3.81 J	J	NT		NT	
Semi-Volatile Organic Compounds (SVOCs) - ug/l									
Acenaphthene	**20**	0.05	J	ND		ND		ND	
Acenaphthylene	--	0.02	J	ND		0.01	J	ND	
Anthracene	**50**	0.04	J	0.04	J	0.03	J	ND	
Benzo(a)anthracene	**0.002**	**0.05**	J	**0.05**	J	**0.07**	J	**0.04**	J
Benzo(a)pyrene	**MDL**	ND		**0.02**	J	**0.05**	J	ND	
Benzo(b)fluoranthene	**0.002**	**0.02**	J	**0.03**	J	**0.1**		**0.02**	J
Benzo(ghi)perylene	--	ND		0.02	J	0.04	J	ND	
Benzo(k)fluoranthene	**0.002**	ND		**0.01**	J	**0.03**	J	ND	
Bis(2-ethylhexyl) phthalate	--	2.5	J	ND		ND		ND	
Caprolactam	--	7.2	J	ND		ND		4.2	J
Chrysene	**0.002**	**0.02**	J	**0.02**	J	**0.05**	J	ND	
Fluoranthene	**50**	0.1		0.1		0.1		0.02	J
Fluorene	**50**	0.07	J	ND		ND		ND	
Hexachlorobutadiene	**0.5**	ND		ND		0.05	J	ND	
Indeno(1,2,3-cd)pyrene	**0.002**	**0.01**	J	**0.02**	J	**0.04**	J	ND	
2-Methylnapthalene	--	0.05	J	0.03	J	0.64		ND	
Naphthalene	**10**	ND		ND		3.4		ND	
Phenanthrene	**50**	0.1	J	0.06	J	0.05	J	0.03	J
Pyrene	**50**	0.05	J	0.04	J	0.1	J	ND	
1,4-Dioxane	--	ND		ND		ND		ND	
Total SVOCs	--	10.28		0.44		4.76		4.31	
Total TICs	--	NT		46.4	J	NT		NT	
Perfluorinated Alkyl Acids ng/L									
Perfluorobutanoic acid (PFBA)	--	22.2		15.9	J	NT		NT	
Perfluoropentanoic acid (PFPeA)	--	ND		ND		NT		NT	
Perfluorobutanesulfonic acid (PFBS)	--	ND		ND		NT		NT	
Perfluorohexanoic acid (PFHxA)	--	2.33		0.936	J	NT		NT	
Perfluoroheptanoic acid (PFHpA)	--	1.2	J	ND		NT		NT	
Perfluorohexanesulfonic acid (PFHxS)	--	ND		ND		NT		NT	
Perfluorooctanoic acid (PFOA)	--	1.8	J	1.02	J	NT		NT	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2FTS)	--	ND		ND		NT		NT	
Perfluoroheptanesulfonic acid (PFHpS)	--	ND		ND		NT		NT	
Perfluorononanoic acid (PFNA)	--	0.668		0.484	J	NT		NT	
Perfluorooctanesulfonic acid (PFOS)	--	ND		ND		NT		NT	
Perfluorodecanoic acid (PFDA)	--	1.07	J	ND		NT		NT	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2FTS)	--	ND		ND		NT		NT	
N-Methyl Perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	ND		ND		NT		NT	
Perfluoroundecanoic Acid (PFUnA)	--	ND		ND		NT		NT	
Perfluorodecanesulfonic acid (PFDS)	--	ND		ND		NT		NT	
Perfluorooctanesulfonamide (FOSA)	--	ND		ND		NT		NT	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	--	ND		ND		NT		NT	
Perfluorododecanoic Acid (PFDoA)	--	ND		ND		NT		NT	
Perfluorotridecanoic Acid (PFTrDA)	--	ND		ND		NT		NT	
Perfluorotetradecanoic acid (PFTA)	--	ND		ND		NT		NT	
Total Metals - ug/l [3]									
Aluminum	--	112		175		309		436	
Antimony	**3**	2.94	J	1.9	J	1.08	J	1.14	J
Arsenic	**25**	1.81		1.28		2.08		1.52	
Barium	**1000**	35.69		31.12		41.76		20.95	
Beryllium	**3**	ND		ND		ND		ND	
Cadmium	**5**	0.13	J	ND		ND		ND	
Calcium	--	208,000		250,000		136,000		140,000	
Chromium	**50**	2.91		1.91		1.38		1.07	
Cobalt	--	3.73		0.7		1.17		2.43	
Copper	**200**	5.39		4.14		3.46		2.43	
Iron	**300**	**352**		**528**		**773**		**236**	
Lead	**25**	0.4	J	ND		0.74	J	ND	
Magnesium	**35000**	**234,000**		**84,800**	J-	**128,000**		**190,000**	
Manganese	**300**	**468**		**319.7**		**329.4**		**300.3**	
Mercury	**0.7**	ND		ND		ND		ND	
Nickel	**100**	10.75		2.04		3.03		4.02	
Potassium	--	13,600		31,400		10,400		6,020	
Selenium	**10**	3.35	J	ND		2.89	J	ND	
Silver	**50**	ND		ND		ND		ND	
Sodium	**20000**	**203,000**		**141,000**		**128,000**		**138,000**	
Thallium	**0.5**	0.37	J	0.17	J	0.28	J	ND	
Vanadium	--	ND		ND		ND		ND	
Zinc	**2000**	3.45	J	ND		4.98	J	7.14	J
Polychlorinated biphenyls (PCBs) - ug/l									
Total PCBs	**0.09**	ND		ND		ND		ND	
Pesticides and Herbicides - ug/l									
		ND		ND		ND		ND	

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. GWQS Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1)
3. Sample results were reported by the laboratory in mg/l and converted to ug/l for comparisons to GWQS.

Definitions:

ND = Parameter not detected above laboratory detection limit.
NT = Parameter was not analyzed for.
"--" = No value available for the parameter.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
J- = Analyte was positively identifed; the associated numerical value is an estimated quantity that may be biased low.
Bold = Result exceeds GWQS.

TABLE 8

SUMMARY OF INTERIM REMEDIAL MEASURES POST EXCAVATION SAMPLE RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVES ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

PARAMETER[1]	Unrestricted Use SCO's[2]	Residential Use SCO's [3]	UST-1 SW-1 10-11 ft	UST-1 SW-2 10-11 ft	REMOVED UST-1 SW-3 8.5 ft	REMOVED UST-1 SW-3R 10-11 ft	REMOVED UST-1 SW-3R (1) 8.5 ft	REMOVED UST-1 SW-3R (2) 11.0 ft	UST-1 SW-3R (3) 11.0 ft	UST-1 SW-4 10-11 ft	UST-1 SW-5 10-11 ft	UST-1 SW-6 10-11 ft	UST-1 B-1 13.5 ft	UST-1 B-2 13.5 ft	UST-2 SW-1 3 ft	UST-2 SW-2 3.5 ft	UST-2 SW-3 3.5 ft	UST-2 B-1 4.5 ft	UST-3 SW-1 7.5 ft	UST-3 SW-2 7.0 ft	UST-3 SW-3 7.0 ft	UST-3 SW-4 7.0 ft	REMOVED UST-3 B-1 9.0 ft	UST-3 B-1R 10 ft
			8/16/2018	8/16/2018	8/17/2018	8/23/2018	8/29/2018	9/17/2018	9/20/2018	8/23/2018	8/23/2018	8/24/2018	8/17/2018	8/17/2018	8/21/2018	8/24/2018	8/24/2018	8/21/2018	8/27/2018	8/27/2018	8/27/2018	8/27/2018	8/27/2018	8/27/2018	9/17/2018
Volatile Organic Compounds (SVOCs) - mg/Kg [4]																								
Methylene chloride	**0.05**	**51**	0.0038 J	ND	0.0023 J	0.0038 J	ND	0.0025 J	0.0025 J	0.0051 J	0.0059 J	0.0028 J	ND	ND	ND	0.0029 J	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**3.6**	**47**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0016 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**8.4**	**47**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00053 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	**1.8**	**9.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	**1.1**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	**0.02**	**2.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**0.05**	**100**	0.015	ND	**0.074**	**0.12**	**0.11 J+**	**0.13**	0.004	0.013	0.039	ND	0.01	0.019	0.032	0.032	0.0072 J	0.0062 J	ND	0.018	0.011 J	0.0094	**0.073**	0.045
2-Butanone	**0.12**	**100**	ND	ND	0.007 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004 J	ND
Benzene	**0.06**	**2.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0012	0.00018 J	ND	ND	ND	ND	ND	ND	ND	ND	0.00071	ND
Bromomethane	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**0.37**	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlororbenzene	**1.1**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**0.25**	**59**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclochexane	**--**	**--**	ND	ND	0.00096 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**1**	**30**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00089 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00048 J	ND
Isopropylbenzene	**--**	**--**	ND	ND	0.0054	0.0029	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	**--**	**--**	ND	ND	0.00092 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	**0.93**	**62**	0.0022	0.0082	0.018	0.01	ND	0.005	0.0006	0.0028	0.0053	0.055	0.012	0.0092	0.0016 J	ND	0.0022	0.0068	ND	ND	0.00072 J	0.0031	0.00048 J	ND
n-Butylbenzene	**12**	**100**	ND	ND	0.00068 J	0.00023 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	**3.9**	**100**	ND	ND	0.012	0.004	ND	ND	ND	ND	ND	ND	0.0002 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropytoluene	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	**11**	**100**	ND	ND	0.0009 J	0.0013	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00096 J	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**1.3**	**19**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**0.47**	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**0.7**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND
Total Xylenes	**0.26**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total TICs	**--**	**--**	NT	NT	NT	NT	NT	NT	0.00286 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.0062 J	NT	NT	NT	0.00324 J	NT
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [4]																								
Acenaphthene	**20**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Acenaphthylene	**100**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Anthracene	**100**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Benzo(a)anthracene	**1**	**1**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Benzo(a)pyrene	**1**	**1**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Benzo(b)fluoranthene	**1**	**1**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Benzo(ghi)perylene	**100**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Benzo(k)fluoranthene	**0.8**	**1**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Chrysene	**1**	**1**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Dibenzofuran	**7**	**7**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Dibenzo (a,h)anthracene	**0.33**	**0.33**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Fluoranthene	**100**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Fluorene	**30**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Naphthalene	**12**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Phenanthrene	**100**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Pyrene	**100**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Phenol	**0.33**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
2-Methylphenol	**0.33**	**100**	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
Total TICs	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	2.72 J	NT
Total Metals - mg/Kg																								
Aluminum	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Antimony	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	**13**	**16**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Barium	**350**	**350**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Beryllium	**7.2**	**14**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	**2.5**	**2.5**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Calcium	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	**30**	**36**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cobalt	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Copper	**50**	**270**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	**63**	**400**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Magnesium	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Manganese	**1600**	**2000**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	**0.18**	**0.81**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	**30**	**140**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Potassium	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	**30**	**36**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Silver	**2**	**36**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sodium	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Thallium	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Vanadium	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	**109**	**2200**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Unrestricted Soil Cleanup Objectives (SCOs), Table 375-6(a).
3. Values per NYSDEC Part 375 Residential Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

Definitions:
TICs = Tentitively Identifed Compounds
ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter, or the parameter was not analysed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
J+ = The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
J- = The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
NJ = The dection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

BOLD	NYSDEC Part 375 exceedes Unrestricted SCOs
BOLD	NYSDEC Part 375 exceedes Residential SCOs

TABLE 8

SUMMARY OF INTERIM REMEDIAL MEASURES POST EXCAVATION SAMPLE RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVES ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

PARAMETER[1]	Unrestricted Use SCO's[2]	Residential Use SCO's [3]	REMOVED UST-4/MW-1 SW-1 0-2 ft	UST-4/MW-1 SW-1R 0-2 ft	UST-4/MW-1 SW-2 0-2 ft	REMOVED UST-4/MW-1 SW-3 0-2 ft	UST-4/MW-1 SW-3R 0-2 ft	UST-4/MW-1 SW-1 4-7 ft	UST-4/MW-1 SW-2 4-7 ft	UST-4/MW-1 SW-3 4-7 ft	UST-4/MW-1 SW-4 4-7 ft	UST-4/MW-1 SW-1 8-12 ft	UST-4/MW-1 SW-2 8-12 ft	UST-4/MW-1 SW-3 8-12 ft	UST-4/MW-1 SW-4 8-12 ft	UST-4/MW-1 B-1 12 ft	MW-4 SW-1 8-10 ft	MW-4 SW-2 8-10 ft	MW-4 SW-3 8-10 ft	MW-4 SW-4 8-10 ft	MW-4 B-1 10 ft	Pump Island SW-1 4.5 ft	REMOVED Pump Island SW-2 5.5 ft	OFF-SITE Pump Island SW-2R 5.5 ft	REMOVED Pump Island SW-3 4.5 ft
			8/28/2018	9/17/2018	8/28/2018	8/28/2018	9/18/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/20/2018	8/20/2018	8/24/2018	8/20/2018
Volatile Organic Compounds (SVOCs) - mg/Kg [4]																									
Methylene chloride	**0.05**	**51**	ND	ND	ND	0.0051 J	NT	0.0033 J	0.0025 J	0.004 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0031 J	ND	ND	ND
1,2,4-Trimethylbenzene	**3.6**	**47**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00064 J	**8.1**	**71**	**4.6**
1,3,5-Trimethylbenzene	**8.4**	**47**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	**20**	0.66
1,4-Dichlorobenzene	**1.8**	**9.8**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	**1.1**	**100**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	**0.02**	**2.3**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**0.05**	**100**	**0.055**	ND	0.043	ND	NT	0.024	0.0089 J	ND	0.012 J	0.014	0.016	0.047	0.022	0.0068 J	0.0057 J	ND	0.017	0.027	ND	0.02	ND	ND	ND
2-Butanone	**0.12**	**100**	ND	ND	0.0042 J	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**0.06**	**2.9**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00033 J	**0.86**	**0.55**	0.016 J
Bromomethane	--	--	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36 J	ND
Chloroform	**0.37**	**10**	0.00019 J	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlororbenzene	**1.1**	**100**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**0.25**	**59**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclochexane	--	--	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0016 J	1.1	3 J	0.42 J
Ethylbenzene	**1**	**30**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00037 J	**1.9**	**13**	0.49
Isopropylbenzene	--	--	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	2.1	0.16
Methyl Acetate	--	--	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	--	--	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011 J	0.79	2.8	0.45
Methyl tert butyl ether	**0.93**	**62**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0016 J	ND	0.00042 J	ND	ND	ND
n-Butylbenzene	**12**	**100**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84	5.1	0.65
n-Propylbenzene	**3.9**	**100**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.92	**8.1**	0.63
p-Isopropytoluene	--	--	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.094	0.92	0.096
sec-Butylbenzene	**11**	**100**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18	1.8	0.16
Tetrachloroethene	**1.3**	**19**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**0.47**	**10**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**0.7**	**100**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00078 J	0.2	**11**	ND
Total Xylenes	**0.26**	**100**	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00162 J	**10.1**	**108**	**0.68**
Total TICs	--	--	NT	NT	NT	NT	NT	NT	0.00659 J	NT	NT	ND	0.00972 J	NT	NT	NT	NT	NT	0.00903 J	NT	NT	NT	23.7 J	NT	15.6 J
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [4]																									
Acenaphthene	**20**	**100**	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
Acenaphthylene	**100**	**100**	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
Anthracene	**100**	**100**	ND	NT	ND	0.058 J	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
Benzo(a)anthracene	**1**	**1**	ND	NT	0.053 J	0.42	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.027 J	ND	NT	ND
Benzo(a)pyrene	**1**	**1**	ND	NT	ND	0.52	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
Benzo(b)fluoranthene	**1**	**1**	ND	NT	0.07 J	0.74	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.036 J	ND	NT	ND
Benzo(ghi)perylene	**100**	**100**	ND	NT	0.049 J	0.42	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.030 J	ND	NT	ND
Benzo(k)fluoranthene	**0.8**	**1**	ND	NT	ND	0.32	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
Chrysene	**1**	**1**	ND	NT	0.13	0.56	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025 J	ND	NT	ND
Dibenzofuran	**7**	**7**	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
Dibenzo (a,h)anthracene	**0.33**	**0.33**	ND	NT	ND	0.079 J	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
Fluoranthene	**100**	**100**	ND	NT	0.068 J	1.1	NT	ND	ND	ND	ND	ND	0.031 J	ND	ND	ND	ND	ND	ND	ND	ND	0.040 J	ND	NT	ND
Fluorene	**30**	**100**	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	ND	NT	0.04 J	0.42	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.029 J	ND	NT	ND
Naphthalene	**12**	**100**	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	NT	0.23
Phenanthrene	**100**	**100**	ND	NT	0.023 J	0.37	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
Pyrene	**100**	**100**	ND	NT	0.093 J	0.9	NT	ND	ND	ND	ND	ND	0.024 J	ND	ND	ND	ND	ND	ND	ND	ND	0.036 J	ND	NT	ND
Phenol	**0.33**	**100**	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.170 J	NT	ND
2-Methylphenol	**0.33**	**100**	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.110 J	NT	ND
Total TICs	--	--	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND	ND	NT	NT	NT	NT	NT	ND	NT	NT	NT	59.2 J	NT	6.75 J
Total Metals - mg/Kg																									
Aluminum	--	--	12200	NT	9470	9470	12200	NT	NT	NT	NT	8860	8840	10100	9350	8570	NT	NT	NT	NT	NT	NT	NT	NT	NT
Antimony	--	--	1.29 J	NT	1.56 J	1.51 J	1.09 J	NT	NT	NT	NT	1.61 J	1.43 J	1.28 J	1.59 J	1.42 J	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	**13**	**16**	3.35	NT	3.23	9.6	6.51	NT	NT	NT	NT	2.82	2.81	2.01	2.03	2.89	NT	NT	NT	NT	NT	NT	NT	NT	NT
Barium	**350**	**350**	148	NT	110	75.9	129	NT	NT	NT	NT	87	122 J	49	35.6	84.6	NT	NT	NT	NT	NT	NT	NT	NT	NT
Beryllium	**7.2**	**14**	0.601	NT	0.461	0.487 J	0.729	NT	NT	NT	NT	0.426 J	0.417 J	0.456 J	0.422 J	0.407 J	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	**2.5**	**2.5**	0.120 J	NT	0.203 J	0.294 J	0.606 J	NT	NT	NT	NT	0.113 J	0.109 J	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT
Calcium	--	--	25600	NT	57600	29300	4810	NT	NT	NT	NT	59700	58600	39800	53300	51600	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	**30**	**36**	18	NT	15.9	16.6	16.7	NT	NT	NT	NT	14.3	15.1	17.2	15.6	15	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cobalt	--	--	7.57	NT	7.69	8.81	11.2	NT	NT	NT	NT	9.71 J	7.61	7.27	6.8	10.7	NT	NT	NT	NT	NT	NT	NT	NT	NT
Copper	**50**	**270**	19	NT	20.2	33.9	21.9	NT	NT	NT	NT	17.7	19.2	16	15.8	18.6	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron	--	--	19400	NT	17800	18500	24300	NT	NT	NT	NT	16400 J-	17600	16800	18000	17200	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	**63**	**400**	27.9	NT	20.7	**70.8**	17	NT	NT	NT	NT	10.5 J	10.3 J	11	9.11	11.8	NT	NT	NT	NT	NT	NT	NT	NT	NT
Magnesium	--	--	14200	NT	15500	8960	4060	NT	NT	NT	NT	16400	20900	16800	17800	17300	NT	NT	NT	NT	NT	NT	NT	NT	NT
Manganese	**1600**	**2000**	443	NT	601	527	713	NT	NT	NT	NT	539	450	349	409	506	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	**0.18**	**0.81**	ND	NT	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	**30**	**140**	20.1	NT	18.5	20.8	22.5	NT	NT	NT	NT	17.6	18	19.2	17.7	19.5	NT	NT	NT	NT	NT	NT	NT	NT	NT
Potassium	--	--	1360	NT	1300	957	892	NT	NT	NT	NT	1520	1410	1550	1430	1390	NT	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	**30**	**36**	0.661 J	NT	0.756 J	0.862 J	0.909 J	NT	NT	NT	NT	0.912 J	0.771 J	0.67 J	0.798 J	0.805 J	NT	NT	NT	NT	NT	NT	NT	NT	NT
Silver	**2**	**36**	ND	NT	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sodium	--	--	399	NT	332	177 J	402	NT	NT	NT	NT	292	279	276	287	255	NT	NT	NT	NT	NT	NT	NT	NT	NT
Thallium	--	--	ND	NT	ND	ND	ND	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT
Vanadium	--	--	22.9	NT	20.2	20.4	27.4	NT	NT	NT	NT	20.4	21.5	19.6	20.7	20.6	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	**109**	**2200**	90.1	NT	81.2	87.9	62.9	NT	NT	NT	NT	58.1	69.3	86.7	71.1	65.2	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Unrestricted Soil Cleanup Objectives (SCOs), Table 375-6(a).
3. Values per NYSDEC Part 375 Residential Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

Definitions:
TICs = Tentitively Identifed Compounds
ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter, or the parameter was not analysed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

J- = The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
NJ = The dection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

BOLD	NYSDEC Part 375 exceedes Unrestricted SCOs
BOLD	NYSDEC Part 375 exceedes Residential SCOs

TABLE 8

SUMMARY OF INTERIM REMEDIAL MEASURES POST EXCAVATION SAMPLE RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVES ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

PARAMETER[2]	Unrestricted Use SCO's[2]	Residential Use SCO's [3]	OFF-SITE Pump Island SW-3R 5.0 ft 8/24/2018	Pump Island SW-4 5 ft 8/20/2018	Pump Island SW-5 4.5 ft 8/23/2018	Pump Island SW-6 8.5 ft 8/23/2018	Pump Island SW-7 8.0 ft 8/24/2018	Pump Island SW-8 8.0 ft 8/24/2018	Pump Island SW-9 5.5 ft 8/24/2018	Pump Island SW-10 5.0 ft 8/24/2018	REMOVED Pump Island SW-11 4.0 ft 8/29/2018	REMOVED Pump Island SW-11R 5.0 ft 9/18/2018	OFF-SITE Pump Island SW-11R (1) 7.5 ft 10/15/2018	Pump Island SW-12 5.0 ft 8/29/2018	Pump Island SW-13 6.0 ft 8/29/2018	REMOVED Pump Island B-1 7.5 ft 8/20/2018	REMOVED Pump Island B-1R 7.5 ft 9/23/2018	REMOVED Pump Island B-1R(1) 8.5 ft 8/29/2018	Pump Island B-1 R(2) 10.5 ft 9/17/2018	Pump Island B-2 7.5 ft 8/23/2018	REMOVED Pump Island B-3 8.0 ft 8/24/2018	Pump Island B-3R 10.0 ft 9/17/2018	Pump Island B-4 10.0 ft 8/29/2018	MA-SW-1 2.0 ft 8/23/2018	OFF-SITE MA-SW-2 2.5 ft 8/23/2018	MA-SW-3 2.5 ft 8/24/2018
Volatile Organic Compounds (SVOCs) - mg/Kg [4]																										
Methylene chloride	**0.05**	**51**	ND	0.0035 J	ND	0.0059 J	0.0028 J	0.0042 J	0.0026 J	ND	ND	ND	0.00025 J	ND	ND	ND	ND	ND	ND	0.0035 J	ND	ND	ND	0.0042 J	0.003 J	0.0045 J
1,2,4-Trimethylbenzene	**3.6**	**47**	**7.9**	ND	ND	ND	ND	0.0013 J	ND	ND	ND	ND	ND	ND	ND	1.9	**10**	0.035 J	ND	ND	0.43	ND	0.0043	ND	ND	ND
1,3,5-Trimethylbenzene	**8.4**	**47**	2.2	ND	ND	ND	ND	0.00031 J	ND	ND	ND	ND	ND	ND	ND	0.49	2.2	0.096 J	ND	ND	0.12	ND	0.0011 J	ND	ND	ND
1,4-Dichlorobenzene	**1.8**	**9.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	**1.1**	**100**	ND	ND	ND	ND	ND	0.0008 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	**0.02**	**2.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00041 J	ND	ND	ND
Acetone	**0.05**	**100**	ND	0.047	ND	0.049	0.022	0.038	0.024	ND	**0.071**	**0.057**	**0.63**	0.034	0.014	ND	ND	ND	0.014	0.01 J	ND	0.029	0.026	0.027	0.012	0.034
2-Butanone	**0.12**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	0.0068 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**0.06**	**2.9**	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.069**	0.021 J-	**0.1**	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	**--**	**--**	0.048 J	ND	ND	ND	ND	ND	ND	0.07 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.067 J	ND	ND	ND	ND	ND
Chloroform	**0.37**	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlororbenzene	**1.1**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**0.25**	**59**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclochexane	**--**	**--**	0.48 J	ND	0.043 J	ND	ND	0.005 J	ND	0.14 J	ND	ND	ND	ND	ND	0.270 J	0.56 J	1.1	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**1**	**30**	0.86	ND	ND	ND	ND	0.0016	ND	0.019 J	ND	ND	ND	ND	ND	0.2	0.39	0.23	ND	ND	0.05 J	ND	0.00052 J	ND	ND	ND
Isopropylbenzene	**--**	**--**	0.23	0.0017	0.044 J	ND	ND	0.0068	ND	0.23	ND	ND	ND	ND	ND	0.1	0.15	0.28	ND	ND	0.014 J	ND	0.00064 J	ND	ND	ND
Methyl Acetate	**--**	**--**	0.33	ND	0.24	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND
Methyl cyclohexane	**--**	**--**	0.45	ND	0.072 J-	ND	ND	0.014	ND	0.19 J	0.00076 J	ND	ND	ND	ND	0.31	0.4 J-	0.73	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	**0.93**	**62**	0.012 J	0.0004 J	ND	0.025	0.00075 J	ND	0.00087 J	ND	ND	0.00051 J	0.00013 J	ND	ND	ND	ND	ND	0.00018 J	0.044 J	0.04 J	0.0084	ND	ND	ND	ND
n-Butylbenzene	**12**	**100**	0.71	0.0003 J	0.12	ND	ND	0.0089	ND	0.87	ND	ND	ND	ND	ND	0.24	1.2	0.9	ND	ND	0.042 J	ND	0.00038 J	ND	ND	ND
n-Propylbenzene	**3.9**	**100**	0.95	0.0061	0.13	ND	ND	0.022	ND	1.2	ND	ND	ND	ND	ND	0.38	0.77	1.1	ND	ND	0.055 J	ND	0.0014	ND	ND	ND
p-Isopropytoluene	**--**	**--**	0.14	ND	ND	ND	ND	0.00068 J	ND	ND	ND	ND	ND	ND	ND	0.049 J	0.17	0.061 J	ND	ND	ND	ND	0.00018 J	ND	ND	ND
sec-Butylbenzene	**11**	**100**	0.23	0.00044 J	0.088	ND	ND	0.0036	ND	0.33	0.00063 J	ND	ND	ND	ND	0.084	0.31	0.25	ND	ND	0.014 J	ND	0.00034 J	ND	ND	ND
Tetrachloroethene	**1.3**	**19**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**0.47**	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**0.7**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00055 J	ND	ND	ND	ND
Total Xylenes	**0.26**	**100**	**3.156**	ND	ND	ND	ND	0.00047 J	ND	ND	ND	ND	ND	ND	ND	**0.465**	**1.98**	ND	ND	ND	**0.335**	ND	0.00092 J	ND	ND	ND
Total TICs	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	0.0101 J	NT	NT	NT	NT	NT	0.0108 J	NT	NT	0.0218 J	NT	NT	NT
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [4]																										
Acenaphthene	**20**	**100**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.052 J	ND	NT	ND	ND	ND	ND
Acenaphthylene	**100**	**100**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.038 J	ND	NT	ND	ND	ND	ND
Anthracene	**100**	**100**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.17	ND	NT	ND	0.038 J	ND	ND
Benzo(a)anthracene	**1**	**1**	NT	ND	ND	ND	ND	ND	ND	0.022 J	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.59 J	ND	NT	ND	0.13	ND	ND
Benzo(a)pyrene	**1**	**1**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.48 J	ND	NT	ND	0.11 J	ND	ND
Benzo(b)fluoranthene	**1**	**1**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.68 J	ND	NT	ND	0.17	ND	ND
Benzo(ghi)perylene	**100**	**100**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.35 J	ND	NT	ND	0.079 J	ND	ND
Benzo(k)fluoranthene	**0.8**	**1**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.22 J	ND	NT	ND	0.062 J	ND	ND
Chrysene	**1**	**1**	NT	ND	ND	ND	ND	ND	ND	0.023 J	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.58 J	ND	NT	ND	0.14	ND	ND
Dibenzofuran	**7**	**7**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.031 J	ND	NT	ND	ND	ND	ND
Dibenzo (a,h)anthracene	**0.33**	**0.33**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.1 J	ND	NT	ND	ND	ND	ND
Fluoranthene	**100**	**100**	NT	ND	ND	ND	ND	ND	ND	0.056 J	ND	NT	NT	0.037 J	ND	ND	NT	NT	NT	1.2 J	ND	NT	ND	0.32	ND	ND
Fluorene	**30**	**100**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.057 J	ND	NT	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	0.37 J	ND	NT	ND	0.082 J	ND	ND
Naphthalene	**12**	**100**	NT	ND	ND	ND	ND	ND	ND	0.11 J	ND	NT	NT	ND	ND	0.093 J	NT	NT	NT	0.032 J	0.15 J	NT	ND	ND	ND	ND
Phenanthrene	**100**	**100**	NT	ND	ND	ND	ND	ND	ND	0.028 J	ND	NT	NT	0.026 J	ND	ND	NT	NT	NT	0.75 J	ND	NT	ND	0.18	ND	ND
Pyrene	**100**	**100**	NT	ND	ND	ND	ND	ND	ND	0.05 J	ND	NT	NT	0.031 J	ND	ND	NT	NT	NT	1.1 J	ND	NT	ND	0.25	ND	ND
Phenol	**0.33**	**100**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	ND	ND	NT	ND	ND	ND	ND
2-Methylphenol	**0.33**	**100**	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	NT	NT	NT	ND	ND	NT	ND	ND	ND	ND
Total TICs	**--**	**--**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1.75 J	NT	NT	NT	NT	NT	1.68 J	NT	NT	ND	NT	NT	NT
Total Metals - mg/Kg																										
Aluminum	**--**	**--**	NT	NT	NT	NT	9490	9070	10400	9820	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	9770	NT	NT	11600	12700	15700
Antimony	**--**	**--**	NT	NT	NT	NT	1.49 J	1.35 J	1.38 J	1.35 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	1.39 J	NT	NT	ND	ND	1.39 J
Arsenic	**13**	**16**	NT	NT	NT	NT	3.11	2.81	1.68	3.35	NT	NT	NT	NT	NT	NT	NT	NT	NT	3.32	NT	NT	3.59	4.98	2.86
Barium	**350**	**350**	NT	NT	NT	NT	48.5	139	95.5	85.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	77.8	NT	NT	91.4	153	140
Beryllium	**7.2**	**14**	NT	NT	NT	NT	0.448 J	0.419 J	0.474 J	0.494	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.463	NT	NT	0.581	0.675	0.756
Cadmium	**2.5**	**2.5**	NT	NT	NT	NT	0.475 J	0.481 J	0.416 J	0.476 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.489 J	NT	NT	0.323 J	0.712 J	0.508 J
Calcium	**--**	**--**	NT	NT	NT	NT	57000	54600	56100	54000	NT	NT	NT	NT	NT	NT	NT	NT	NT	50100	NT	NT	33200	36100	4220 J
Chromium	**30**	**36**	NT	NT	NT	NT	15.1	15.5	17.9	15.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	15.8	NT	NT	16.6	17.5	21.5
Cobalt	**--**	**--**	NT	NT	NT	NT	5.94	8.06	8.16	7.44	NT	NT	NT	NT	NT	NT	NT	NT	NT	9.64	NT	NT	6.56	17.4	9.92
Copper	**50**	**270**	NT	NT	NT	NT	16.6	21.2	17.8	20.6	NT	NT	NT	NT	NT	NT	NT	NT	NT	19.2	NT	NT	16.7	14.7	21.3
Iron	**--**	**--**	NT	NT	NT	NT	16600	17400	15800	19000	NT	NT	NT	NT	NT	NT	NT	NT	NT	18900	NT	NT	21400	29000	24300 J-
Lead	**63**	**400**	NT	NT	NT	NT	9.83	11.7	10.2	9.6	NT	NT	NT	NT	NT	NT	NT	NT	NT	10.3	NT	NT	12.2	10.9	12
Magnesium	**--**	**--**	NT	NT	NT	NT	17300	18600	16000	15600	NT	NT	NT	NT	NT	NT	NT	NT	NT	16900	NT	NT	16300	10300	5450
Manganese	**1600**	**2000**	NT	NT	NT	NT	401	441	463	419	NT	NT	NT	NT	NT	NT	NT	NT	NT	455	NT	NT	356	**1940**	298
Mercury	**0.18**	**0.81**	NT	NT	NT	NT	ND	ND	ND	0.017 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.018 J	NT	NT	0.056 J	0.042 J	0.027 J
Nickel	**30**	**140**	NT	NT	NT	NT	16	18.1	18.4	17.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	21.5	NT	NT	17.1	18.4	23.7
Potassium	**--**	**--**	NT	NT	NT	NT	1640	1580	1460	1350	NT	NT	NT	NT	NT	NT	NT	NT	NT	1600	NT	NT	1100	1070	1160
Selenium	**30**	**36**	NT	NT	NT	NT	0.375 J	0.365 J	ND	0.35 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.285 J	NT	NT	0.35 J	1.5 J	ND
Silver	**2**	**36**	NT	NT	NT	NT	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND	ND	ND
Sodium	**--**	**--**	NT	NT	NT	NT	320	274	385	381	NT	NT	NT	NT	NT	NT	NT	NT	NT	275	NT	NT	264	278	687
Thallium	**--**	**--**	NT	NT	NT	NT	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND	2.73	0.734 J
Vanadium	**--**	**--**	NT	NT	NT	NT	20.1	22	21	24	NT	NT	NT	NT	NT	NT	NT	NT	NT	22.5	NT	NT	24.7	24.9	26.8
Zinc	**109**	**2200**	NT	NT	NT	NT	90.8	64.5	61.6	57.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	73.7	NT	NT	72.6	69.7	78.9

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Unrestricted Soil Cleanup Objectives (SCOs), Table 375-6(a).
3. Values per NYSDEC Part 375 Residential Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b).
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BOLD	NYSDEC Part 375 exceedes Unrestricted SCOs
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TABLE 8

SUMMARY OF INTERIM REMEDIAL MEASURES POST EXCAVATION SAMPLE RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVES ANALYSIS REPORT
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

PARAMETER[1]	Unrestricted Use SCO's[2]	Residential Use SCO's [3]	MA-SW-4 2.5 ft	MA-SW-5 2.5 ft	MA-SW-6 2.5 ft	MA-SW-7 2.5 ft	MA B-1 3.0 ft	MA B-2 3.0 ft	MA B-3 4.0 ft	REMOVED HLA-SW-1 8.0 ft	HLA-SW-1R 8.0 ft	HLA-SW-2 8.0 ft	HLA-SW-3 8.0 ft	HLA-SW-4 8.0 ft	HL-1 B-1 11 ft	FA-SW-1 3.5 ft	FA-SW-2 4.5 ft	FA-B-1 7.0 ft
			8/27/2018	8/27/2018	8/27/2018	8/27/2018	8/27/2018	8/27/2018	8/27/2018	8/27/2018	9/17/2018	8/27/2018	8/27/2018	8/27/2018	8/24/2018	8/28/2018	8/28/2018	8/28/2018
Volatile Organic Compounds (SVOCs) - mg/Kg [4]																		
Methylene chloride	**0.05**	**51**	ND	ND	ND	ND	ND	ND	ND	0.0073 J	ND	ND	ND	ND	0.0039 J	ND	ND	ND
1,2,4-Trimethylbenzene	**3.6**	**47**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**8.4**	**47**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	**1.8**	**9.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	**1.1**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	**0.02**	**2.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**0.05**	**100**	0.013 J	ND	ND	0.0075 J	ND	0.044	0.0066 J	**0.058**	0.012 J	0.014	0.0087 J	0.03	0.018	ND	ND	ND
2-Butanone	**0.12**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**0.06**	**2.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**0.37**	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlororbenzene	**1.1**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**0.25**	**59**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00026 J	ND	ND	ND	0.00039 J
Cyclochexane	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**1**	**30**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	**0.93**	**62**	ND	ND	ND	ND	ND	ND	0.00035 J	ND	ND	ND	ND	0.00041 J	ND	ND	ND	ND
n-Butylbenzene	**12**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	**3.9**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropytoluene	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	**11**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**1.3**	**19**	ND	ND	0.0012 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00055 J	ND	ND
Trichloroethene	**0.47**	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**0.7**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	0.00078 J	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	**0.26**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total TICs	**--**	**--**	NT	NT	NT	0.0174 J	NT	NT	NT	0.00883 J	NT	NT	NT	NT	NT	NT	NT	ND
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [4]																		
Acenaphthene	**20**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	**100**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Anthracene	**100**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	**1**	**1**	ND	0.026 J	0.030 J	ND	0.023 J	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	**1**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	**1**	**1**	ND	0.036 J	ND	ND	0.041 J	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	**100**	**100**	ND	0.026 J	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	**0.8**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Chrysene	**1**	**1**	ND	0.031 J	0.033 J	ND	0.022 J	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	**7**	**7**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h)anthracene	**0.33**	**0.33**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**100**	**100**	0.039 J	0.075 J	0.067 J	ND	0.051 J	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Fluorene	**30**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**12**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**100**	**100**	ND	0.035 J	0.028 J	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Pyrene	**100**	**100**	0.035 J	0.050 J	0.054 J	ND	0.043 J	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Phenol	**0.33**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	**0.33**	**100**	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Total TICs	**--**	**--**	NT	NT	NT	ND	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	ND
Total Metals - mg/Kg																		
Aluminum	**--**	**--**	16000	14000	10600	14200	7720	13900	9450	NT		NT	NT	NT	NT	NT	NT	NT
Antimony	**--**	**--**	2.15 J	1.44 J	1.66 J	1.73 J	0.762 J	1.21 J	1.05 J	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	**13**	**16**	5.74	2.97	5.86	4.28	2.83	3.07	2.18	NT	NT	NT	NT	NT	NT	NT	NT	NT
Barium	**350**	**350**	128	130	90	116	81.3	129	67.3	NT	NT	NT	NT	NT	NT	NT	NT	NT
Beryllium	**7.2**	**14**	0.782	0.667	0.526	0.733	0.438 J	0.687	0.440 J	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	**2.5**	**2.5**	0.817 J	0.458 J	0.621 J	0.59 J	0.410 J	0.506 J	0.429 J	NT	NT	NT	NT	NT	NT	NT	NT	NT
Calcium	**--**	**--**	19100	15900	43800 J	2800	40800	25300	53000	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	**30**	**36**	19.7	19.2	16.4	19.4	11.8	19.5	14.6	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cobalt	**--**	**--**	6.59	8.7	10.1	12.5	7.03	9.92	7.15	NT	NT	NT	NT	NT	NT	NT	NT	NT
Copper	**50**	**270**	17.6	17.1	27	14.9	15.1	21.6	17	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron	**--**	**--**	19700	20200	18200	23800 J-	13400	21400	16400	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	**63**	**400**	31	12.6	44.3 J	24.2	11.3	12.1	9.31	NT	NT	NT	NT	NT	NT	NT	NT	NT
Magnesium	**--**	**--**	4920	9220	14400	3720	9780	11300	14600	NT	NT	NT	NT	NT	NT	NT	NT	NT
Manganese	**1600**	**2000**	277	458	530	417	487	484	382	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	**0.18**	**0.81**	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	**30**	**140**	17.4	20.8	21.6	20.3	14.6	24	16.8	NT	NT	NT	NT	NT	NT	NT	NT	NT
Potassium	**--**	**--**	1090	1200	1360	1040	760	1280	1270	NT	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	**30**	**36**	0.689 J	ND	ND	0.371 J	0.248 J	ND	0.335 J	NT	NT	NT	NT	NT	NT	NT	NT	NT
Silver	**2**	**36**	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sodium	**--**	**--**	1710	925	179 J	420	154 J	540	354	NT	NT	NT	NT	NT	NT	NT	NT	NT
Thallium	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT
Vanadium	**--**	**--**	22.3	23.9	23.1	26.8	15	26.4	18.8	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	**109**	**2200**	106	75.9	93.7	75.2	56.2	77.9	61.2	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Unrestricted Soil Cleanup Objectives (SCOs), Table 375-6(a).
3. Values per NYSDEC Part 375 Residential Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

Definitions:
TICs = Tentitively Identifed Compounds
ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter, or the parameter was not analysed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

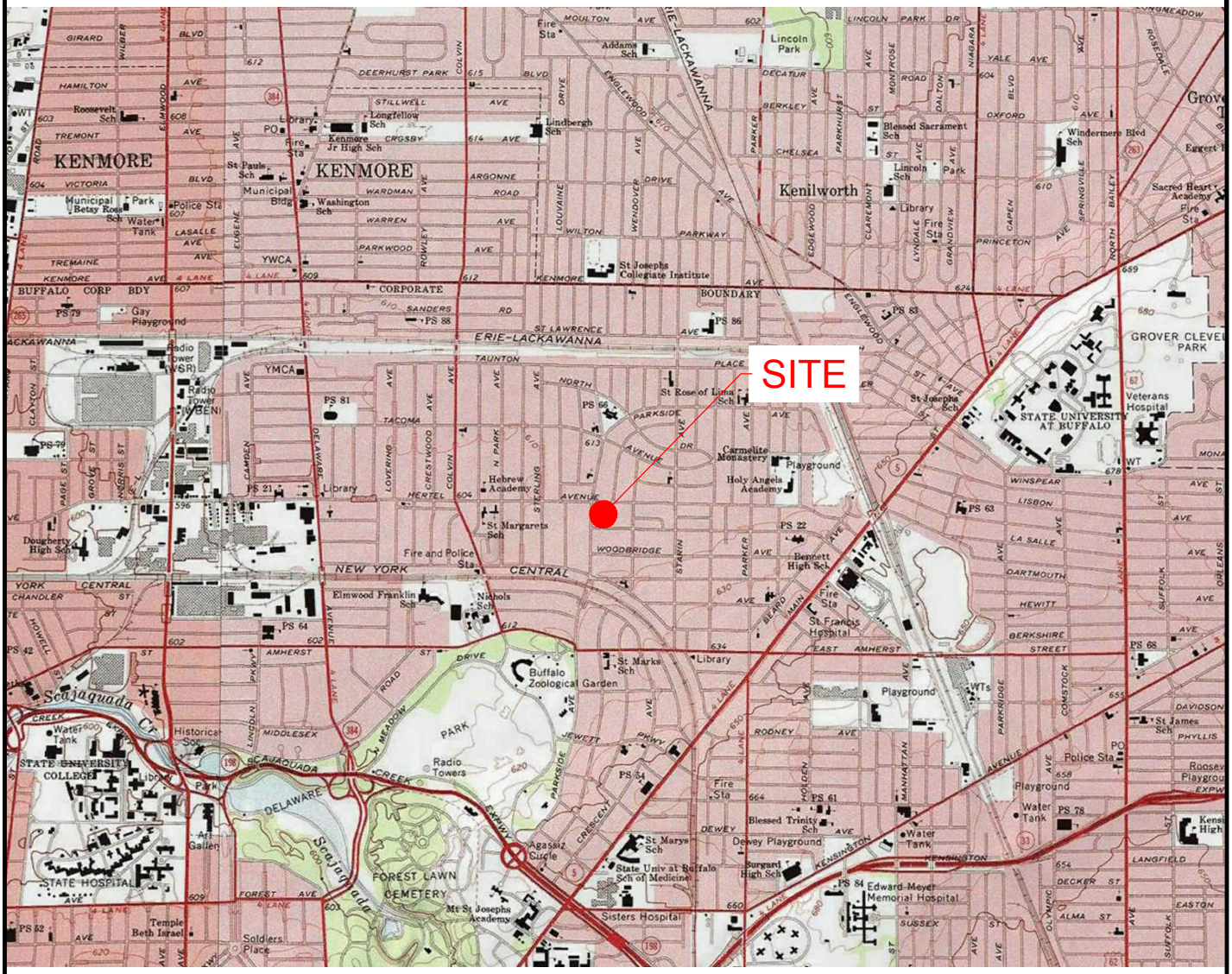
J- = The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
NJ = The dection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

BOLD NYSDEC Part 375 exceedes Unrestricted SCOs
BOLD NYSDEC Part 375 exceedes Residential SCOs

FIGURES

F:\CAD\Benchmark\1585 Hertel LLC\3 - RI IRM AA Report\Figure 1 - Site Location and Vicinity Map.dwg

FIGURE 1



3,000' 0' 3,000' 6,000'

SCALE: 1 INCH = 3,000 FEET
SCALE IN FEET
(approximate)



BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

PROJECT NO.: B0437-017-001

DATE: OCTOBER 2018

DRAFTED BY: CMS-CMC

SITE LOCATION AND VICINITY MAP

BROWNFIELD CLEANUP PROGRAM
RI-IRM-AA REPORT

1585 HERTEL AVENUE SITE
BCP SITE NO. C915328
BUFFALO, NEW YORK

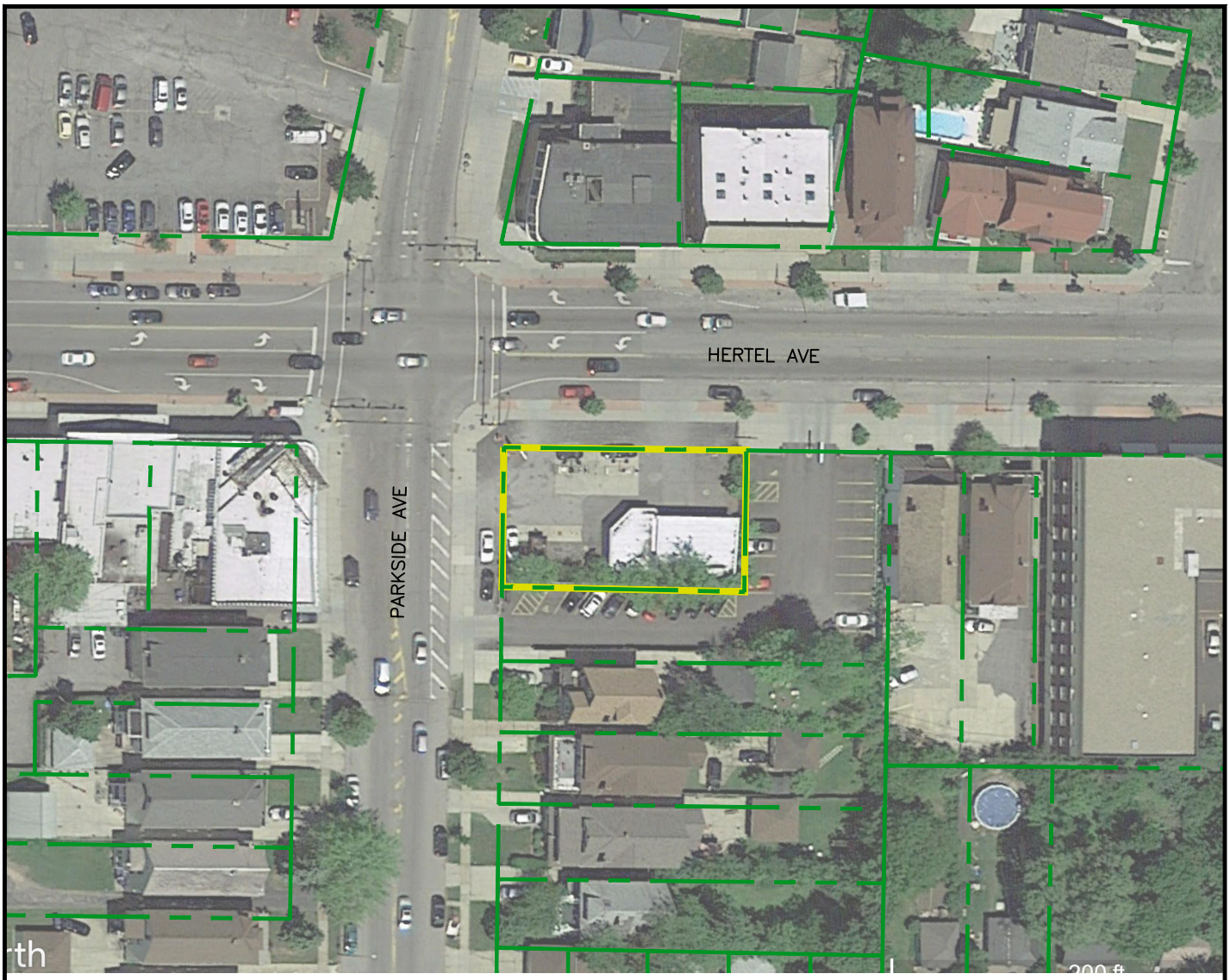
PREPARED FOR

1585 HERTEL LLC

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F:\CAD\Benchmark\1585 Hertel LLC\3 - RI IRM AA Report\Figure 2; Site Plan (Aerial).dwg

FIGURE 2



N

80' 0' 80' 160'

SCALE: 1 INCH = 80 FEET
SCALE IN FEET
(approximate)

LEGEND:

BCP SITE BOUNDARY

PARCEL BOUNDARY

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2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

PROJECT NO.: 0437-017-001

DATE: OCTOBER 2018

DRAFTED BY: CMC

SITE PLAN (AERIAL)

BROWNFIELD CLEANUP PROGRAM
RI-IRM-AA REPORT

1585 HERTEL AVENUE SITE
BCP SITE NO. C915328
BUFFALO, NEW YORK

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F:\CAD\Benchmark\1585 Hertel LLC\3 - RI IRM AA Report\Figure 3; Limited Phase II Boring Locations.dwg

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- SB-3 SOIL BORING SAMPLE
- SS-1 SURFACE SOIL SAMPLE



N

30' 0' 30' 60'

SCALE: 1 INCH = 30 FEET
SCALE IN FEET
(approximate)

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2558 HAMBURG TURNPIKE
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BUFFALO, NY 14218
(716) 856-0599

PROJECT NO.: 0437-001-002

DATE: OCTOBER 2018

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LIMITED PHASE II BORING LOCATIONS

BROWNFIELD CLEANUP PROGRAM

RI-IRM-AA REPORT

1585 HERTEL AVENUE SITE
BCP SITE NO. C915328
BUFFALO, NEW YORK

PREPARED FOR

1585 HERTEL LLC

FIGURE 3

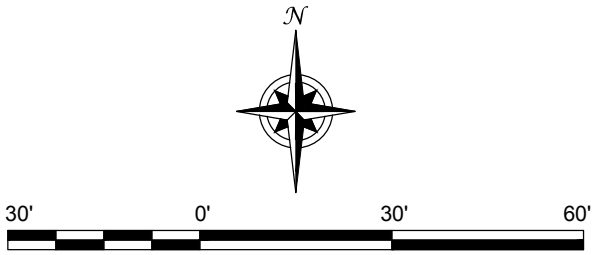
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F:\CAD\Benchmark\1585 Hertel LLC\3 - RI IRM AA Report\Figure 4; Remedial Investigation Locations.dwg

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- SB-3 SOIL BORING (PHASE II)
- SS-1 SURFACE SOIL (PHASE II)
- SB-10 SOIL BORING (RI)
- SS-3 SURFACE SOIL (RI)
- MW-2 MONITORING WELL (RI)





SCALE: 1 INCH = 30 FEET
SCALE IN FEET
(approximate)

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PROJECT NO.: 0437-001-002

DATE: OCTOBER 2018

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REMEDIAL INVESTIGATION LOCATIONS

BROWNFIELD CLEANUP PROGRAM

RI-IRM-AA REPORT

1585 HERTEL AVENUE SITE
BCP SITE NO. C915328
BUFFALO, NEW YORK

PREPARED FOR

1585 HERTEL LLC

FIGURE 4

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F:\CAD\Benchmark\1585 Hertel LLC\3 - RI IRM AA Report\Figure 5; Groundwater Isopotential Map.dwg

LEGEND:

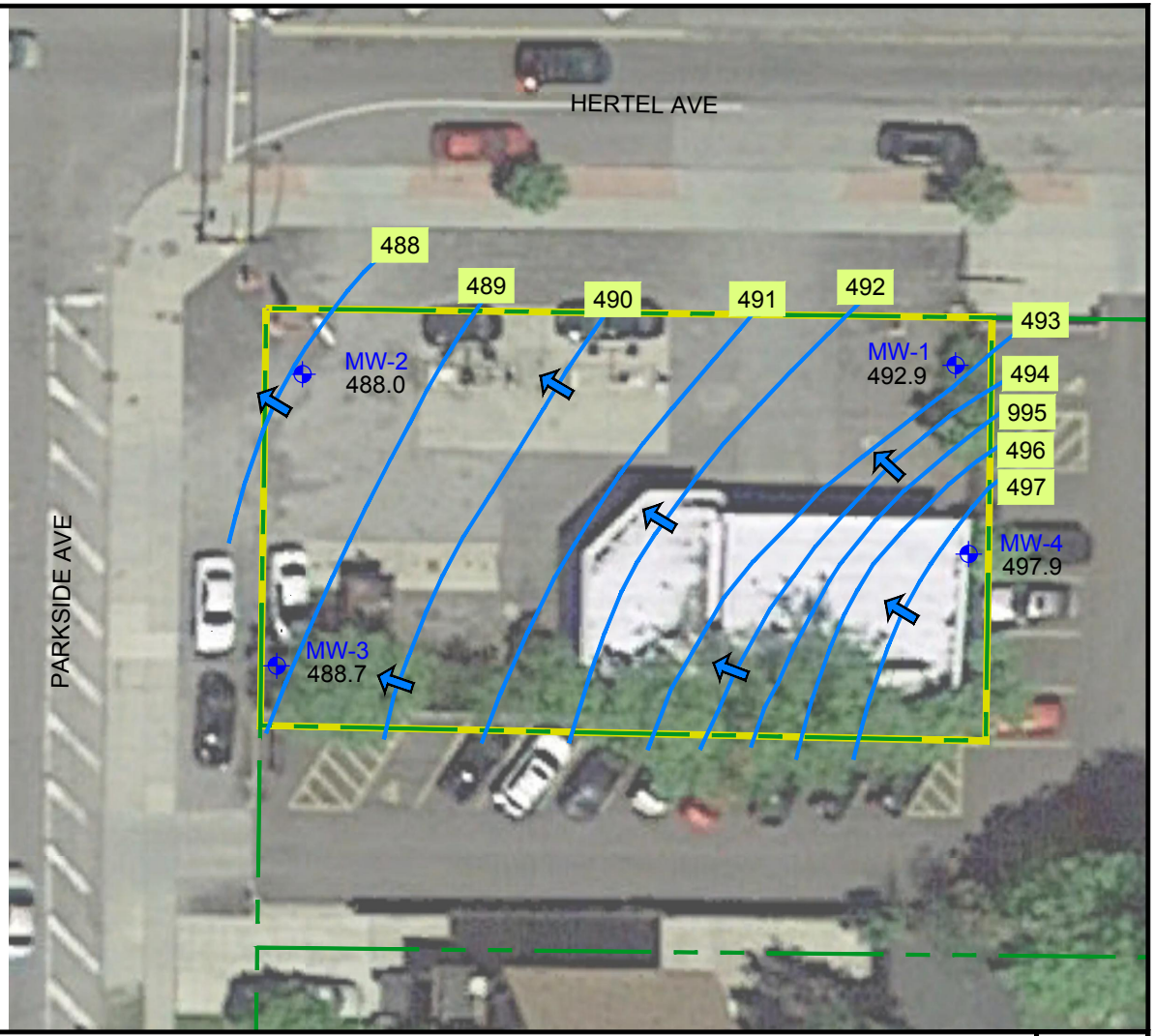
- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- MW-2 488.0 — RI MONITORING WELL WITH GROUNDWATER ELEVATION (4)
- 488 — GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
-Depth to water measurements by Benchmark-TurnKey on August 10, 2018.
-Elevations were established using an arbitrary benchmark datum of 500 feet.

N

30' 0' 30' 60'

SCALE: 1 INCH = 30 FEET
SCALE IN FEET
(approximate)



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DATE: OCTOBER 2018
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GROUNDWATER ISPOTENTIAL MAP

BROWNFIELD CLEANUP PROGRAM
RI-IRM-AA REPORT

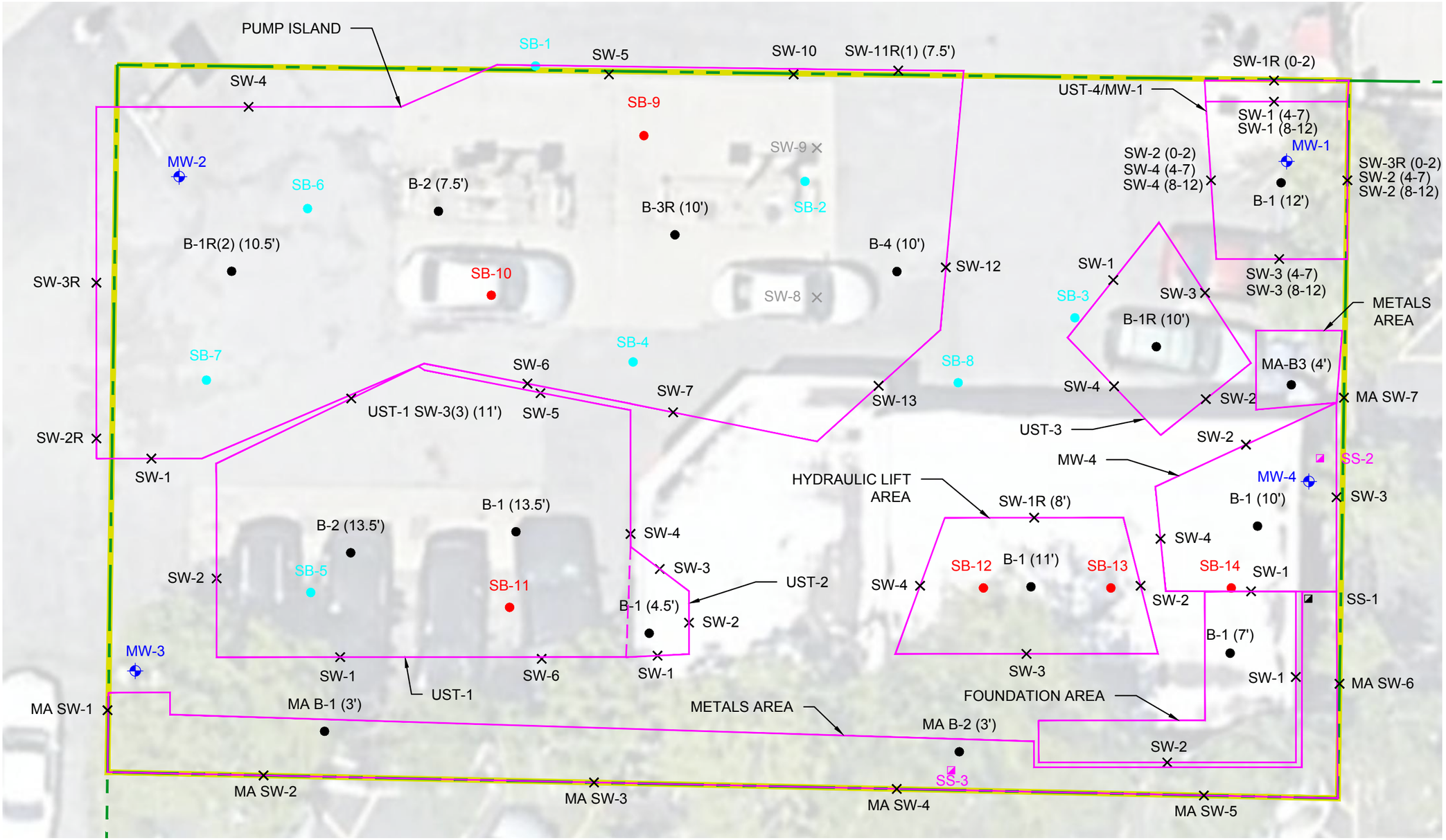
1585 HERTEL AVENUE SITE
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FIGURE 5

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F:\CAD\Benchmark\1585 Hertel LLC\3 - RI IRM AA Report\Figure 6; Interim Remedial Measures Sample LocationsRev.dwg, DWG To PDF.pc3



LEGEND:

	PROPERTY BOUNDARY	MW-1	RI SOIL BORING/MONITORING WELL
	PARCEL BOUNDARY	SB-1	RI SOIL BORING
	IRM EXCAVATION EXTENTS	SS-3	RI SURFACE SOIL SAMPLE
SB-1	PHASE II SOIL BORING	SW-3	IRM POST-EXCAVATION SIDEWALL SAMPLE
SS-1	PHASE II SURFACE SOIL SAMPLE	B-1	IRM POST-EXCAVATION BOTTOM SAMPLE

10' 0' 10' 20'

SCALE: 1 INCH = 10 FEET
SCALE IN FEET
(approximate)

N

DATE: AUGUST 2018
DRAFTED BY: CMC

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2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

JOB NO.: 0437-001-002

INTERIM REMEDIAL MEASURES LOCATIONS

BROWNFIELD CLEANUP PROGRAM
RI-IRM-AA REPORT
1585 HERTEL AVENUE SITE
BUFFALO, NEW YORK

PREPARED FOR
1585 HERTEL LLC

FIGURE 6

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APPENDIX A

PROJECT PHOTOGRAPHS

SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: Advancement of SB-13 (east).

Photo 2: Unsaturated native clay soils.

Photo 3: Advancement of MW-3 (Northeast).

Photo 4: Saturated native clay soils.

SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: Removing liquid contents of UST-2 and UST-3 and placing it into totes (north).

Photo 6: Exposing large 10,000-gallon gasoline tank (UST-1).

Photo 7: Preparing dry ice to place in 10,000-gallon gasoline UST (west).

Photo 8: Placing dry ice in 10,000-gallon gasoline tank to evacuate volatile vapors (north).

SITE PHOTOGRAPHS

Photo 9:



Photo 10:



Photo 11:



Photo 12:



Photo 9: Removal of metals impacted soils along southern property line (west).

Photo 10: Removal of petroleum impacted pea stone bedding in UST-1 area (west).

Photo 11: Exposing first of six undocumented USTs located in the Pump Island area (east).

Photo 12: Removal of one of three orphaned 2,000-gallon USTs located in the Pump Island area (east).

SITE PHOTOGRAPHS

Photo 13:



Photo 14:



Photo 15:



Photo 16:



Photo 13: General site conditions; 10,000-gallon UST in background, concrete from one 2,000-gallon tank (under polyethylene sheeting), 2,000-gallon UST in former pump island area to be removed (south).

Photo 14: Removal of cleaned 10,000-gallon UST (west).

Photo 15: Removal of hydraulic lifts and draining its contents (east).

Photo 16: Removal of liquid content of previously unknown 550-gallon tank (UST-4) in northeastern corner of Site (north).

SITE PHOTOGRAPHS

Photo 17:



Photo 18:



Photo 19:



Photo 20:



Photo 17 Removal of petroleum impacted building footer wall, MW-4 excavation vicinity (south).

Photo 18: Decommissioning MW-4. Placing Portland cement down the well casing after purging.

Photo 19: Filtering and discharging storm water from excavation (northeast).

Photo 20: Excavation of site soils (northeast).

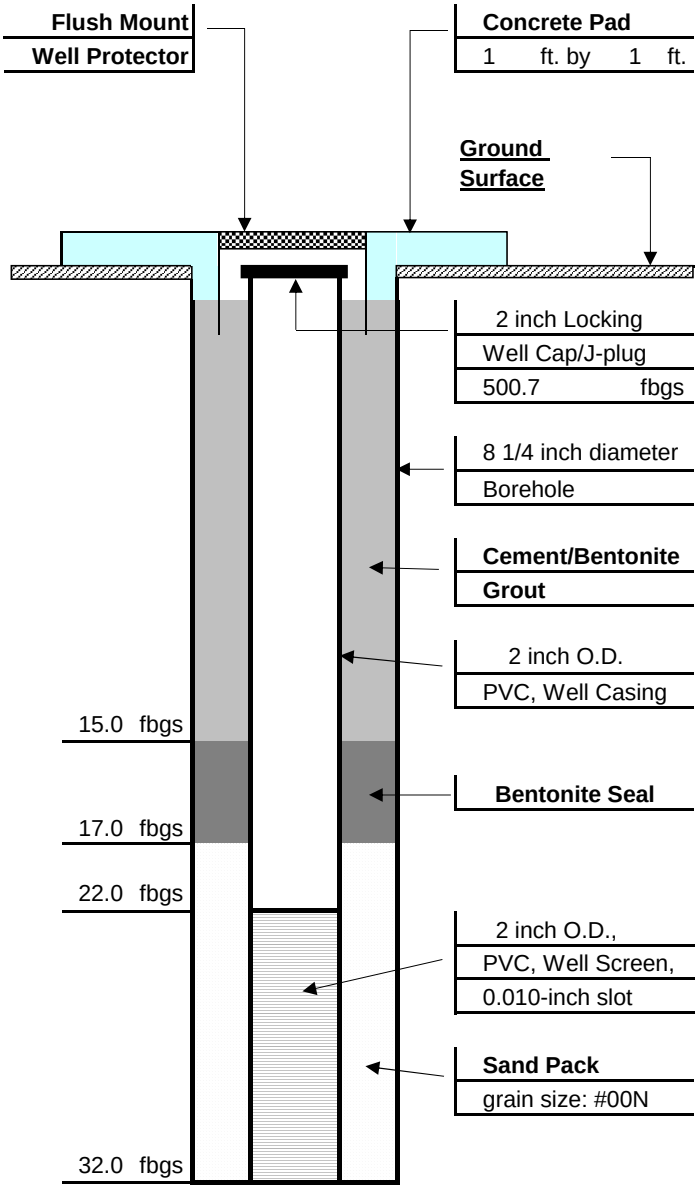
APPENDIX B

MONITORING WELL COMPLETION DETAILS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

FLUSHMOUNT WELL COMPLETION DETAIL

Project Name:	**1585 Hertel Ave Remedial Investigation**	WELL NUMBER:	**MW-1**
Client:	**1585 Hertel LLC**	Date Installed:	**06/21/18**
Boring Location:	**Northeast corner of site.**	Project Number:	**0437-017-001-005**



Driller Information

Company:	Natures Way Environmental, Inc.
Driller:	Steve G.
Helper:	Nate
Drill Rig Type:	CME D550

Well Information

Ground Surface Elevation	*501.22*	fmsl (approximate)
Drilling Method:	Augered to depth w/ confirmatory split spoons.	
Soil Sample Collection Method:	Split Spoon	
Drilling Fluid:	None used.	
Fluid Loss During Drilling:	Not applicable	gallons (approximate)

Material of Well Construction

Casing:	PVC
Screen:	0.010 slot screen
Sump:	none
Sand Pack:	*#00N Sand*
Annular Seal:	Medium bentonite chips.

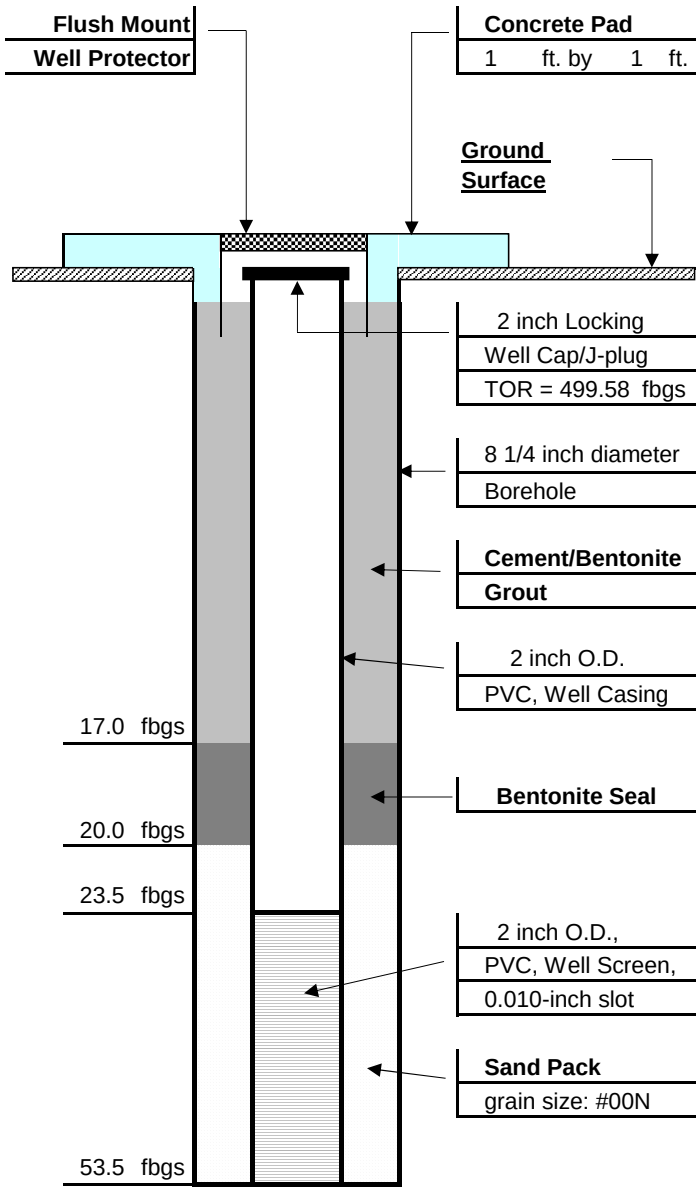
Comments:

PREAPRED BY: TAB DATE: 7/16/2018

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

FLUSHMOUNT WELL COMPLETION DETAIL

Project Name:	**1585 Hertel Ave Remedial Investigation**	WELL NUMBER:	**MW-2**
Client:	**1585 Hertel LLC**	Date Installed:	**06/20/18**
Boring Location:	**Northwest corner of site.**	Project Number:	**0437-017-001-005**



Driller Information

Company:	Natures Way Environmental, Inc.
Driller:	Steve G.
Helper:	Nate
Drill Rig Type:	CME D550

Well Information

Ground Surface Elevation	*500.39*	fmsl (approximate)
Drilling Method:	Augered to depth w/ confirmatory split spoons.	
Soil Sample Collection Method:	Split Spoon	
Drilling Fluid:	None used.	
Fluid Loss During Drilling:	not applicable	gallons (approximate)

Material of Well Construction

Casing:	PVC
Screen:	0.010 slot screen
Sump:	none
Sand Pack:	*#00N Sand*
Annular Seal:	Medium bentonite chips.

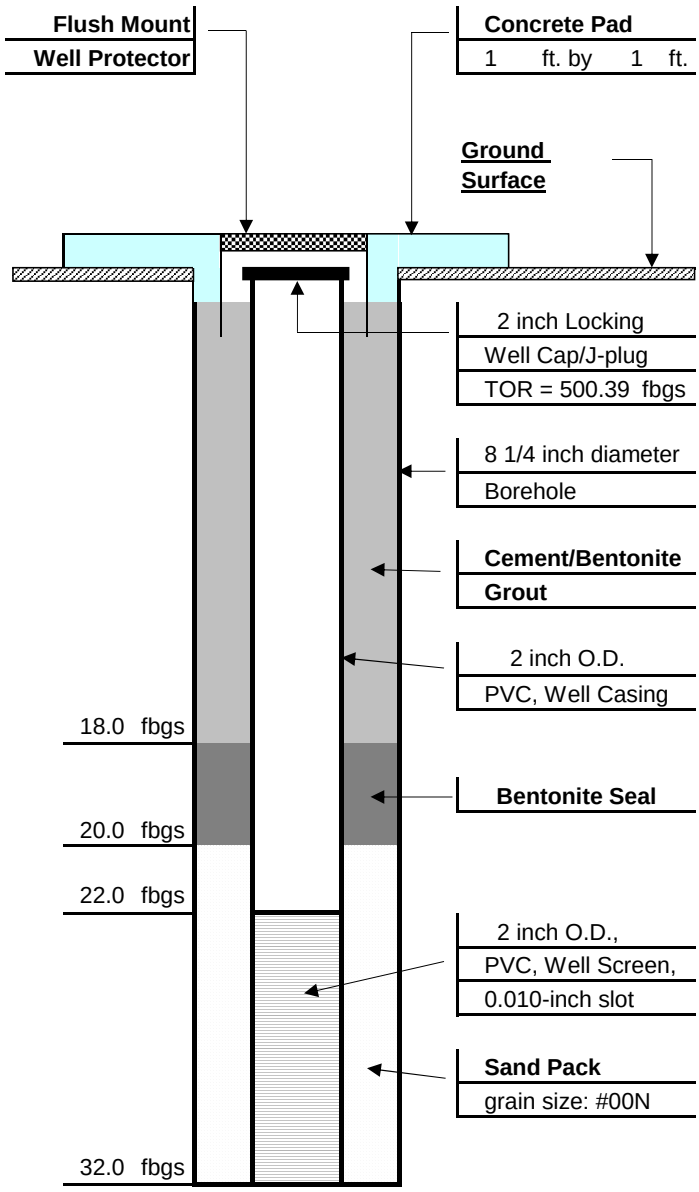
Comments:

PREAPRED BY: TAB DATE: 7/16/2018

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

FLUSHMOUNT WELL COMPLETION DETAIL

Project Name:	**1585 Hertel Ave Remedial Investigation**	WELL NUMBER:	**MW-3**
Client:	**1585 Hertel LLC**	Date Installed:	**06/19/18**
Boring Location:	**Southwest corner of site.**	Project Number:	**0437-017-001-005**



Driller Information

Company:	Natures Way Environmental, Inc.
Driller:	Steve G.
Helper:	Nate
Drill Rig Type:	CME D550

Well Information

Ground Surface Elevation	*500.87*	fmsl (approximate)
Drilling Method:	Augered to depth w/ confirmatory split spoons.	
Soil Sample Collection Method:	Split Spoon	
Drilling Fluid:	None used.	
Fluid Loss During Drilling:	not applicable	gallons (approximate)

Material of Well Construction

Casing:	PVC
Screen:	0.010 slot screen
Sump:	none
Sand Pack:	*#00N Sand*
Annular Seal:	Medium bentonite chips.

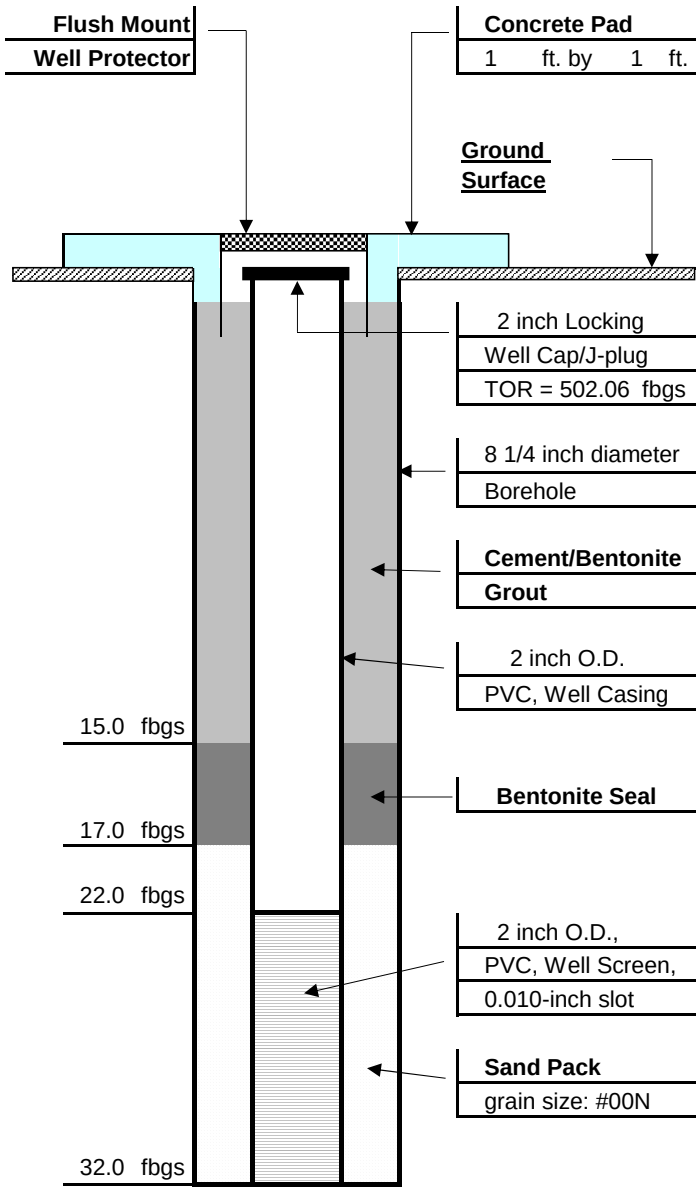
Comments:

PREAPRED BY: TAB DATE: 7/16/2018

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

FLUSHMOUNT WELL COMPLETION DETAIL

Project Name:	**1585 Hertel Ave Remedial Investigation**	WELL NUMBER:	**MW-4**
Client:	**1585 Hertel LLC**	Date Installed:	**06/21/18**
Boring Location:	**Southwest corner of site.**	Project Number:	**0437-017-001-005**



Driller Information

Company:	Natures Way Environmental, Inc.
Driller:	Steve
Helper:	Nate
Drill Rig Type:	CME D550

Well Information

Ground Surface Elevation	*502.50*	fmsl (approximate)
Drilling Method:	Augered to depth w/ confirmatory split spoons.	
Soil Sample Collection Method:	Split Spoon	
Drilling Fluid:	None used.	
Fluid Loss During Drilling:	not applicable	gallons (approximate)

Material of Well Construction

Casing:	PVC
Screen:	0.010 slot screen
Sump:	none
Sand Pack:	*#00N Sand*
Annular Seal:	Medium bentonite chips.

Comments:

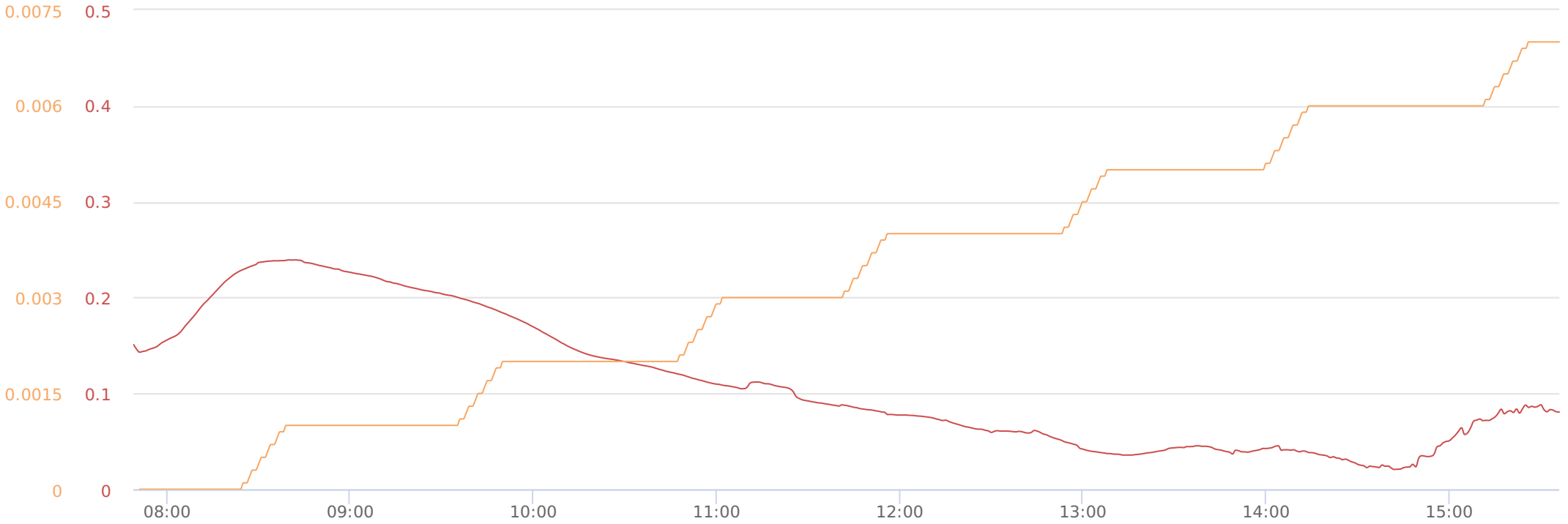
PREAPRED BY: TAB DATE: 7/16/2018

APPENDIX C

COMMUNITY AIR MONITORING PROGRAM DATA

enviro net

Thu, 14th of Jun 2018, 7:00:00 – 18:00:00
(GMT-05:00) Eastern Time (US & Canada)



VOC ppm AVG 15m ppm
miniRAE 3000RS232(A)

MIN	AVG	MAX
0.0207	0.1103	0.2393

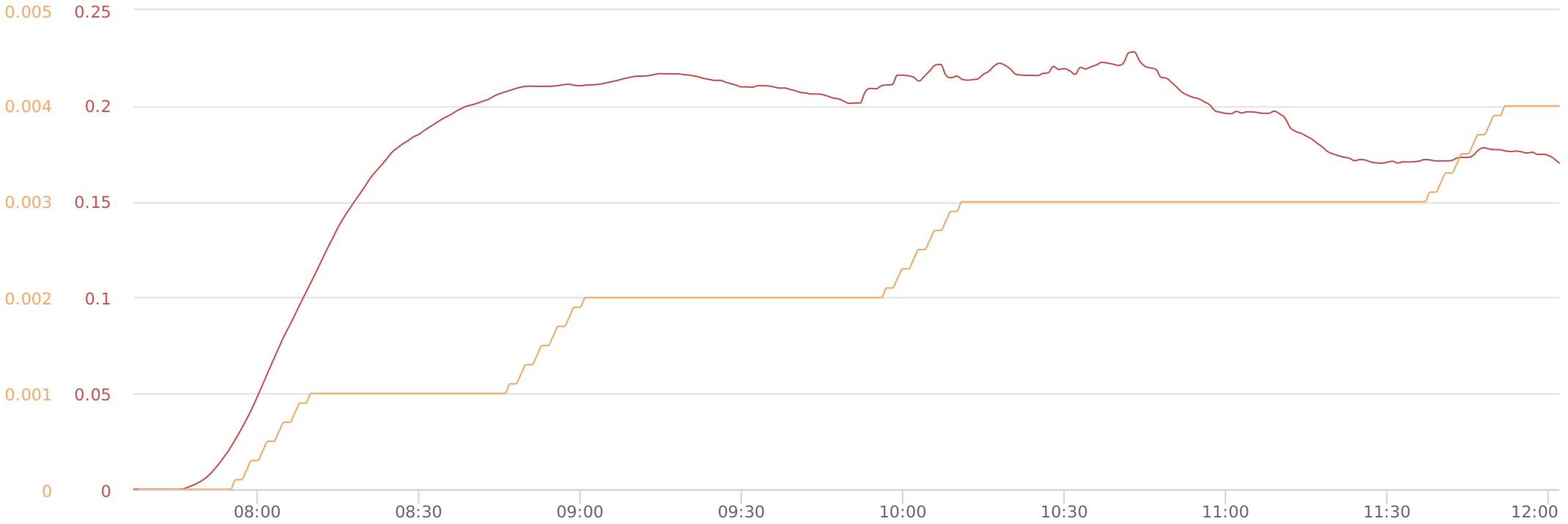
Total TWA mg/m³ AVG 15m mg/m³
DustTrak-8530RS232(C)

MIN	AVG	MAX
0	0.003	0.007

Name Benchmark & Turnkey
S/N 0B389622
Description CAMP Station # 6 Replacement
Location 628 Parkside Ave, Buffalo, NY 14216, USA

Produced By © Netronix 2018

Fri, 15th of Jun 2018, 7:00:00 – 18:00:00
(GMT-05:00) Eastern Time (US & Canada)



VOC ppm AVG 15m ppm
miniRAE 3000RS232(A)

MIN	AVG	MAX
0	0.1767	0.2281

Total TWA mg/m³ AVG 15m mg/m³
DustTrak-8530RS232(C)

MIN	AVG	MAX
0	0.002	0.004

Name Benchmark & Turnkey
S/N 0B389622
Description CAMP Station # 6 Replacement
Location 628 Parkside Ave, Buffalo, NY 14216, USA

Produced By © Netronix 2018

Test 009

Instrument		Data Properties	
Model	DustTrak II	Start Date	06/19/2018
Instrument S/N	8530173501	Start Time	08:36:19
		Stop Date	06/19/2018
		Stop Time	14:15:19
		Total Time	0:05:39:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.034 mg/m^3
Max	1.230 mg/m^3
Max Date	06/19/2018
Max Time	14:07:19
Min	0.000 mg/m^3
Min Date	06/19/2018
Min Time	13:40:19
TWA (8 hr)	0.024
TWA Start Date	06/19/2018
TWA Start Time	08:36:19
TWA End Time	14:15:19

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	06/19/2018	08:37:19	0.022
2	06/19/2018	08:38:19	0.036
3	06/19/2018	08:39:19	0.027
4	06/19/2018	08:40:19	0.022
5	06/19/2018	08:41:19	0.015
6	06/19/2018	08:42:19	0.014
7	06/19/2018	08:43:19	0.017
8	06/19/2018	08:44:19	0.014
9	06/19/2018	08:45:19	0.014
10	06/19/2018	08:46:19	0.017
11	06/19/2018	08:47:19	0.020
12	06/19/2018	08:48:19	0.052
13	06/19/2018	08:49:19	0.099
14	06/19/2018	08:50:19	0.090
15	06/19/2018	08:51:19	0.056
16	06/19/2018	08:52:19	0.044
17	06/19/2018	08:53:19	0.023
18	06/19/2018	08:54:19	0.041
19	06/19/2018	08:55:19	0.040
20	06/19/2018	08:56:19	0.089
21	06/19/2018	08:57:19	0.078

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
22	06/19/2018	08:58:19	0.018
23	06/19/2018	08:59:19	0.033
24	06/19/2018	09:00:19	0.046
25	06/19/2018	09:01:19	0.038
26	06/19/2018	09:02:19	0.032
27	06/19/2018	09:03:19	0.018
28	06/19/2018	09:04:19	0.036
29	06/19/2018	09:05:19	0.044
30	06/19/2018	09:06:19	0.027
31	06/19/2018	09:07:19	0.020
32	06/19/2018	09:08:19	0.015
33	06/19/2018	09:09:19	0.025
34	06/19/2018	09:10:19	0.015
35	06/19/2018	09:11:19	0.022
36	06/19/2018	09:12:19	0.023
37	06/19/2018	09:13:19	0.029
38	06/19/2018	09:14:19	0.023
39	06/19/2018	09:15:19	0.021
40	06/19/2018	09:16:19	0.021
41	06/19/2018	09:17:19	0.037
42	06/19/2018	09:18:19	0.024
43	06/19/2018	09:19:19	0.024
44	06/19/2018	09:20:19	0.037
45	06/19/2018	09:21:19	0.031
46	06/19/2018	09:22:19	0.027
47	06/19/2018	09:23:19	0.025
48	06/19/2018	09:24:19	0.018
49	06/19/2018	09:25:19	0.024
50	06/19/2018	09:26:19	0.026
51	06/19/2018	09:27:19	0.022
52	06/19/2018	09:28:19	0.015
53	06/19/2018	09:29:19	0.018
54	06/19/2018	09:30:19	0.020
55	06/19/2018	09:31:19	0.019
56	06/19/2018	09:32:19	0.029
57	06/19/2018	09:33:19	0.024
58	06/19/2018	09:34:19	0.023
59	06/19/2018	09:35:19	0.021
60	06/19/2018	09:36:19	0.082
61	06/19/2018	09:37:19	0.065
62	06/19/2018	09:38:19	0.026
63	06/19/2018	09:39:19	0.034
64	06/19/2018	09:40:19	0.026
65	06/19/2018	09:41:19	0.018
66	06/19/2018	09:42:19	0.031
67	06/19/2018	09:43:19	0.030

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
68	06/19/2018	09:44:19	0.022
69	06/19/2018	09:45:19	0.026
70	06/19/2018	09:46:19	0.016
71	06/19/2018	09:47:19	0.015
72	06/19/2018	09:48:19	0.020
73	06/19/2018	09:49:19	0.015
74	06/19/2018	09:50:19	0.016
75	06/19/2018	09:51:19	0.041
76	06/19/2018	09:52:19	0.014
77	06/19/2018	09:53:19	0.015
78	06/19/2018	09:54:19	0.033
79	06/19/2018	09:55:19	0.027
80	06/19/2018	09:56:19	0.052
81	06/19/2018	09:57:19	0.030
82	06/19/2018	09:58:19	0.025
83	06/19/2018	09:59:19	0.022
84	06/19/2018	10:00:19	0.021
85	06/19/2018	10:01:19	0.015
86	06/19/2018	10:02:19	0.153
87	06/19/2018	10:03:19	0.071
88	06/19/2018	10:04:19	0.043
89	06/19/2018	10:05:19	0.019
90	06/19/2018	10:06:19	0.026
91	06/19/2018	10:07:19	0.023
92	06/19/2018	10:08:19	0.022
93	06/19/2018	10:09:19	0.045
94	06/19/2018	10:10:19	0.014
95	06/19/2018	10:11:19	0.046
96	06/19/2018	10:12:19	0.145
97	06/19/2018	10:13:19	0.030
98	06/19/2018	10:14:19	0.019
99	06/19/2018	10:15:19	0.013
100	06/19/2018	10:16:19	0.012
101	06/19/2018	10:17:19	0.028
102	06/19/2018	10:18:19	0.016
103	06/19/2018	10:19:19	0.015
104	06/19/2018	10:20:19	0.016
105	06/19/2018	10:21:19	0.026
106	06/19/2018	10:22:19	0.014
107	06/19/2018	10:23:19	0.017
108	06/19/2018	10:24:19	0.021
109	06/19/2018	10:25:19	0.097
110	06/19/2018	10:26:19	0.024
111	06/19/2018	10:27:19	0.021
112	06/19/2018	10:28:19	0.030
113	06/19/2018	10:29:19	0.015

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
114	06/19/2018	10:30:19	0.015
115	06/19/2018	10:31:19	0.012
116	06/19/2018	10:32:19	0.014
117	06/19/2018	10:33:19	0.022
118	06/19/2018	10:34:19	0.035
119	06/19/2018	10:35:19	0.028
120	06/19/2018	10:36:19	0.022
121	06/19/2018	10:37:19	0.083
122	06/19/2018	10:38:19	0.165
123	06/19/2018	10:39:19	0.011
124	06/19/2018	10:40:19	0.067
125	06/19/2018	10:41:19	0.047
126	06/19/2018	10:42:19	0.019
127	06/19/2018	10:43:19	0.012
128	06/19/2018	10:44:19	0.029
129	06/19/2018	10:45:19	0.030
130	06/19/2018	10:46:19	0.026
131	06/19/2018	10:47:19	0.011
132	06/19/2018	10:48:19	0.011
133	06/19/2018	10:49:19	0.011
134	06/19/2018	10:50:19	0.013
135	06/19/2018	10:51:19	0.010
136	06/19/2018	10:52:19	0.009
137	06/19/2018	10:53:19	0.009
138	06/19/2018	10:54:19	0.009
139	06/19/2018	10:55:19	0.014
140	06/19/2018	10:56:19	0.008
141	06/19/2018	10:57:19	0.012
142	06/19/2018	10:58:19	0.010
143	06/19/2018	10:59:19	0.010
144	06/19/2018	11:00:19	0.009
145	06/19/2018	11:01:19	0.009
146	06/19/2018	11:02:19	0.010
147	06/19/2018	11:03:19	0.010
148	06/19/2018	11:04:19	0.010
149	06/19/2018	11:05:19	0.012
150	06/19/2018	11:06:19	0.011
151	06/19/2018	11:07:19	0.010
152	06/19/2018	11:08:19	0.015
153	06/19/2018	11:09:19	0.012
154	06/19/2018	11:10:19	0.009
155	06/19/2018	11:11:19	0.009
156	06/19/2018	11:12:19	0.009
157	06/19/2018	11:13:19	0.010
158	06/19/2018	11:14:19	0.011
159	06/19/2018	11:15:19	0.039

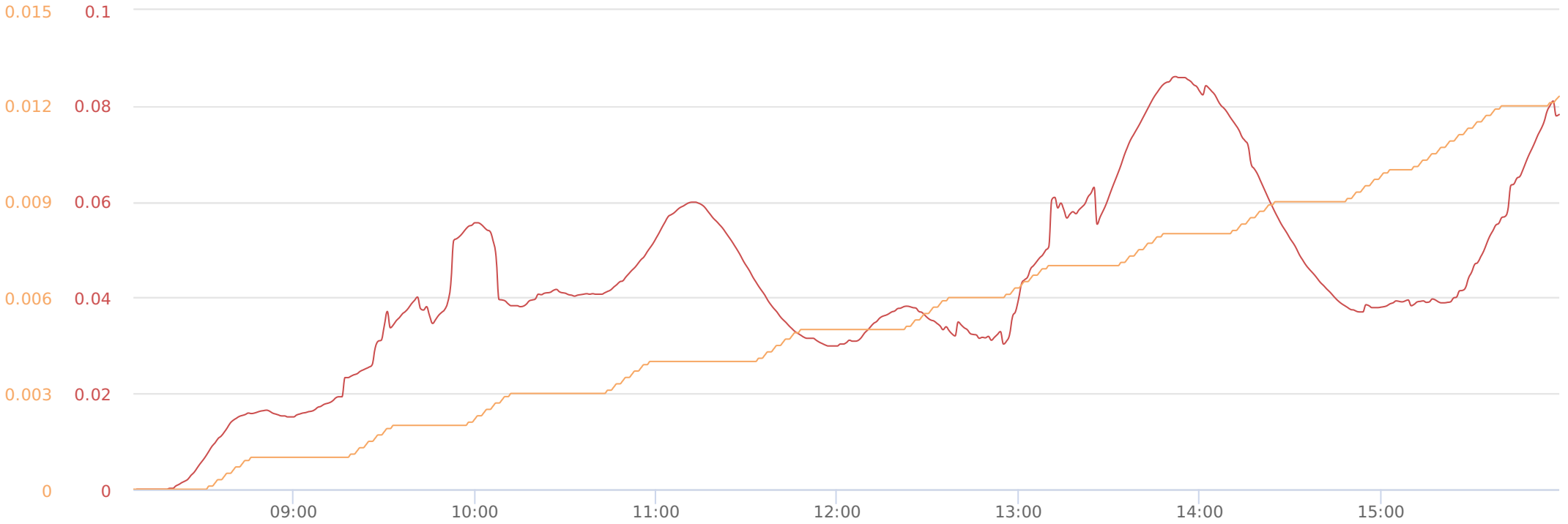
Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
160	06/19/2018	11:16:19	0.018
161	06/19/2018	11:17:19	0.013
162	06/19/2018	11:18:19	0.014
163	06/19/2018	11:19:19	0.016
164	06/19/2018	11:20:19	0.017
165	06/19/2018	11:21:19	0.023
166	06/19/2018	11:22:19	0.025
167	06/19/2018	11:23:19	0.016
168	06/19/2018	11:24:19	0.025
169	06/19/2018	11:25:19	0.019
170	06/19/2018	11:26:19	0.027
171	06/19/2018	11:27:19	0.028
172	06/19/2018	11:28:19	0.036
173	06/19/2018	11:29:19	0.013
174	06/19/2018	11:30:19	0.012
175	06/19/2018	11:31:19	0.017
176	06/19/2018	11:32:19	0.028
177	06/19/2018	11:33:19	0.020
178	06/19/2018	11:34:19	0.017
179	06/19/2018	11:35:19	0.026
180	06/19/2018	11:36:19	0.024
181	06/19/2018	11:37:19	0.013
182	06/19/2018	11:38:19	0.021
183	06/19/2018	11:39:19	0.018
184	06/19/2018	11:40:19	0.010
185	06/19/2018	11:41:19	0.020
186	06/19/2018	11:42:19	0.026
187	06/19/2018	11:43:19	0.021
188	06/19/2018	11:44:19	0.019
189	06/19/2018	11:45:19	0.013
190	06/19/2018	11:46:19	0.016
191	06/19/2018	11:47:19	0.013
192	06/19/2018	11:48:19	0.028
193	06/19/2018	11:49:19	0.014
194	06/19/2018	11:50:19	0.015
195	06/19/2018	11:51:19	0.025
196	06/19/2018	11:52:19	0.014
197	06/19/2018	11:53:19	0.013
198	06/19/2018	11:54:19	0.034
199	06/19/2018	11:55:19	0.021
200	06/19/2018	11:56:19	0.028
201	06/19/2018	11:57:19	0.018
202	06/19/2018	11:58:19	0.022
203	06/19/2018	11:59:19	0.017
204	06/19/2018	12:00:19	0.015
205	06/19/2018	12:01:19	0.026

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
206	06/19/2018	12:02:19	0.029
207	06/19/2018	12:03:19	0.026
208	06/19/2018	12:04:19	0.019
209	06/19/2018	12:05:19	0.029
210	06/19/2018	12:06:19	0.016
211	06/19/2018	12:07:19	0.013
212	06/19/2018	12:08:19	0.015
213	06/19/2018	12:09:19	0.013
214	06/19/2018	12:10:19	0.033
215	06/19/2018	12:11:19	0.046
216	06/19/2018	12:12:19	0.040
217	06/19/2018	12:13:19	0.011
218	06/19/2018	12:14:19	0.011
219	06/19/2018	12:15:19	0.010
220	06/19/2018	12:16:19	0.477
221	06/19/2018	12:17:19	0.299
222	06/19/2018	12:18:19	0.469
223	06/19/2018	12:19:19	1.150
224	06/19/2018	12:20:19	0.081
225	06/19/2018	12:21:19	0.011
226	06/19/2018	12:22:19	0.010
227	06/19/2018	12:23:19	0.010
228	06/19/2018	12:24:19	0.011
229	06/19/2018	12:25:19	0.010
230	06/19/2018	12:26:19	0.011
231	06/19/2018	12:27:19	0.010
232	06/19/2018	12:28:19	0.010
233	06/19/2018	12:29:19	0.011
234	06/19/2018	12:30:19	0.064
235	06/19/2018	12:31:19	0.048
236	06/19/2018	12:32:19	0.012
237	06/19/2018	12:33:19	0.009
238	06/19/2018	12:34:19	0.009
239	06/19/2018	12:35:19	0.010
240	06/19/2018	12:36:19	0.008
241	06/19/2018	12:37:19	0.010
242	06/19/2018	12:38:19	0.008
243	06/19/2018	12:39:19	0.008
244	06/19/2018	12:40:19	0.024
245	06/19/2018	12:41:19	0.009
246	06/19/2018	12:42:19	0.009
247	06/19/2018	12:43:19	0.010
248	06/19/2018	12:44:19	0.008
249	06/19/2018	12:45:19	0.009
250	06/19/2018	12:46:19	0.208
251	06/19/2018	12:47:19	0.066

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
252	06/19/2018	12:48:19	0.170
253	06/19/2018	12:49:19	0.068
254	06/19/2018	12:50:19	0.024
255	06/19/2018	12:51:19	0.008
256	06/19/2018	12:52:19	0.014
257	06/19/2018	12:53:19	0.009
258	06/19/2018	12:54:19	0.017
259	06/19/2018	12:55:19	0.018
260	06/19/2018	12:56:19	0.007
261	06/19/2018	12:57:19	0.017
262	06/19/2018	12:58:19	0.007
263	06/19/2018	12:59:19	0.006
264	06/19/2018	13:00:19	0.090
265	06/19/2018	13:01:19	0.096
266	06/19/2018	13:02:19	0.022
267	06/19/2018	13:03:19	0.008
268	06/19/2018	13:04:19	0.010
269	06/19/2018	13:05:19	0.011
270	06/19/2018	13:06:19	0.002
271	06/19/2018	13:07:19	0.003
272	06/19/2018	13:08:19	0.003
273	06/19/2018	13:09:19	0.011
274	06/19/2018	13:10:19	0.003
275	06/19/2018	13:11:19	0.002
276	06/19/2018	13:12:19	0.002
277	06/19/2018	13:13:19	0.002
278	06/19/2018	13:14:19	0.002
279	06/19/2018	13:15:19	0.003
280	06/19/2018	13:16:19	0.004
281	06/19/2018	13:17:19	0.002
282	06/19/2018	13:18:19	0.011
283	06/19/2018	13:19:19	0.002
284	06/19/2018	13:20:19	0.001
285	06/19/2018	13:21:19	0.001
286	06/19/2018	13:22:19	0.002
287	06/19/2018	13:23:19	0.003
288	06/19/2018	13:24:19	0.098
289	06/19/2018	13:25:19	0.016
290	06/19/2018	13:26:19	0.006
291	06/19/2018	13:27:19	0.015
292	06/19/2018	13:28:19	0.001
293	06/19/2018	13:29:19	0.003
294	06/19/2018	13:30:19	0.004
295	06/19/2018	13:31:19	0.001
296	06/19/2018	13:32:19	0.001
297	06/19/2018	13:33:19	0.027

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
298	06/19/2018	13:34:19	0.022
299	06/19/2018	13:35:19	0.004
300	06/19/2018	13:36:19	0.006
301	06/19/2018	13:37:19	0.007
302	06/19/2018	13:38:19	0.008
303	06/19/2018	13:39:19	0.001
304	06/19/2018	13:40:19	0.000
305	06/19/2018	13:41:19	0.003
306	06/19/2018	13:42:19	0.016
307	06/19/2018	13:43:19	0.017
308	06/19/2018	13:44:19	0.005
309	06/19/2018	13:45:19	0.009
310	06/19/2018	13:46:19	0.000
311	06/19/2018	13:47:19	0.007
312	06/19/2018	13:48:19	0.002
313	06/19/2018	13:49:19	0.005
314	06/19/2018	13:50:19	0.022
315	06/19/2018	13:51:19	0.010
316	06/19/2018	13:52:19	0.008
317	06/19/2018	13:53:19	0.004
318	06/19/2018	13:54:19	0.015
319	06/19/2018	13:55:19	0.003
320	06/19/2018	13:56:19	0.001
321	06/19/2018	13:57:19	0.004
322	06/19/2018	13:58:19	0.000
323	06/19/2018	13:59:19	0.002
324	06/19/2018	14:00:19	0.012
325	06/19/2018	14:01:19	0.002
326	06/19/2018	14:02:19	0.002
327	06/19/2018	14:03:19	0.007
328	06/19/2018	14:04:19	0.003
329	06/19/2018	14:05:19	0.007
330	06/19/2018	14:06:19	0.033
331	06/19/2018	14:07:19	1.230
332	06/19/2018	14:08:19	0.100
333	06/19/2018	14:09:19	0.120
334	06/19/2018	14:10:19	0.007
335	06/19/2018	14:11:19	0.007
336	06/19/2018	14:12:19	0.006
337	06/19/2018	14:13:19	0.023
338	06/19/2018	14:14:19	0.019
339	06/19/2018	14:15:19	0.017

Wed, 20th of Jun 2018, 7:00:00 – 16:00:00
(GMT-05:00) Eastern Time (US & Canada)



VOC ppm AVG 15m ppm
miniRAE 3000RS232(A)

MIN	AVG	MAX
0	0.0426	0.0861

Total TWA mg/m³ AVG 15m mg/m³
DustTrak-8530RS232(C)

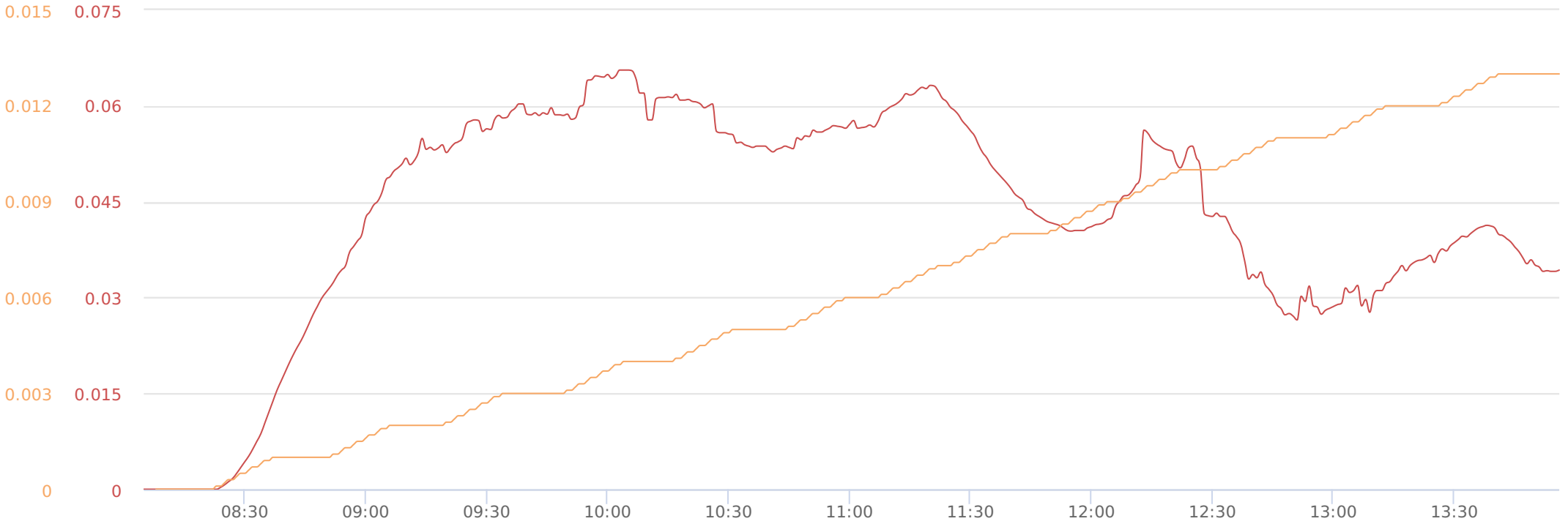
MIN	AVG	MAX
0	0.0053	0.0122

Name	Benchmark & Turnkey
S/N	0B389622
Description	CAMP Station # 6 Replacement
Location	628 Parkside Ave, Buffalo, NY 14216, USA

Produced By © Netronix 2018

enviro net

Thu, 21st of Jun 2018, 7:00:00 – 18:00:00
(GMT-05:00) Eastern Time (US & Canada)



VOC ppm AVG 15m ppm
miniRAE 3000RS232(A)

MIN	AVG	MAX
0	0.0431	0.0656

Total TWA mg/m³ AVG 15m mg/m³
DustTrak-8530RS232(C)

MIN	AVG	MAX
0	0.006	0.013

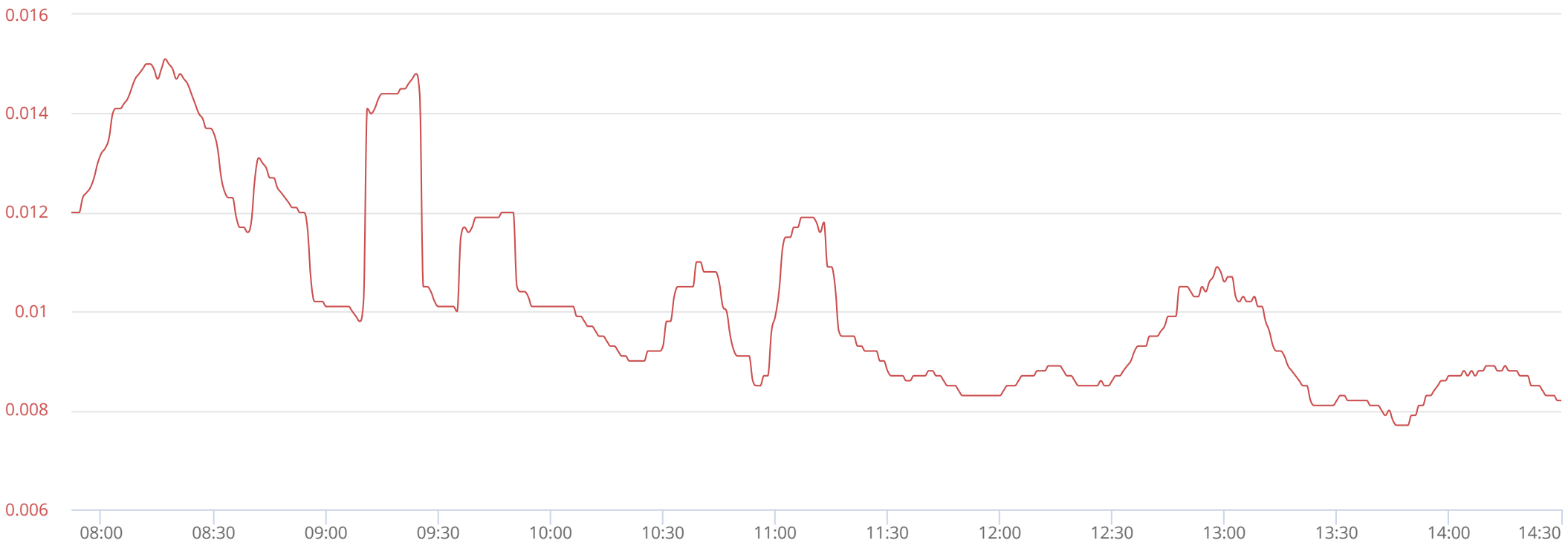
Name	Benchmark & Turnkey
S/N	0B389622
Description	CAMP Station # 6 Replacement
Location	628 Parkside Ave, Buffalo, NY 14216, USA

Produced By © Netronix 2018

enviro net

Mon, 13th of Aug 2018, 7:00:00 – 14:30:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.0077	0.0102	0.0151

VOC ppm AVG 15m ppm

miniRAE 3000

RS232(A)

MIN	AVG	MAX
N/A	N/A	N/A

Name Benchmark & Turnkey
S/N 0B236251
Description CAMP Station #5
Location 1598 Hertel Ave,
Buffalo, NY 14216, USA

© Netronix 2018

Begin	8/13/2018 8:43
End	8/13/2018 16:57
Sample Per	60
Number of	494

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	4
High Alarm	8
Over Alarm	15000
STEL Alarm	2
TWA Alarm	1
Measurem	Isobutene
Calibration	8/10/2018 16:23
Peak	N/A
Min	N/A
Average	N/A

****

Datalog

Index	Date/Time	VOC(ppm) (Avg)
1	8/13/2018 8:44	0
2	8/13/2018 8:45	0
3	8/13/2018 8:46	0
4	8/13/2018 8:47	0
5	8/13/2018 8:48	0
6	8/13/2018 8:49	0
7	8/13/2018 8:50	0
8	8/13/2018 8:51	0
9	8/13/2018 8:52	0
10	8/13/2018 8:53	0
11	8/13/2018 8:54	0
12	8/13/2018 8:55	0
13	8/13/2018 8:56	0
14	8/13/2018 8:57	0
15	8/13/2018 8:58	0
16	8/13/2018 8:59	0
17	8/13/2018 9:00	0
18	8/13/2018 9:01	0
19	8/13/2018 9:02	0
20	8/13/2018 9:03	0
21	8/13/2018 9:04	0
22	8/13/2018 9:05	0
23	8/13/2018 9:06	0
24	8/13/2018 9:07	0

25	8/13/2018 9:08	0
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67	8/13/2018 9:50	0
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69	8/13/2018 9:52	0
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74	8/13/2018 9:57	0
75	8/13/2018 9:58	0
76	8/13/2018 9:59	0
77	8/13/2018 10:00	0
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469	8/13/2018 16:32	0
470	8/13/2018 16:33	0
471	8/13/2018 16:34	0
472	8/13/2018 16:35	0
473	8/13/2018 16:36	0
474	8/13/2018 16:37	0
475	8/13/2018 16:38	0
476	8/13/2018 16:39	0
477	8/13/2018 16:40	0
478	8/13/2018 16:41	0
479	8/13/2018 16:42	0
480	8/13/2018 16:43	0
481	8/13/2018 16:44	0
482	8/13/2018 16:45	0
483	8/13/2018 16:46	0
484	8/13/2018 16:47	0
485	8/13/2018 16:48	0
486	8/13/2018 16:49	0
487	8/13/2018 16:50	0
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492	8/13/2018 16:55	0
493	8/13/2018 16:56	0
494	8/13/2018 16:57	0

Peak	0
Min	0
Average	0

enviro net

Tue, 14th of Aug 2018, 7:00:00 – 14:30:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0132	**0.0232**	**0.0539**

Name Benchmark & Turnkey
S/N 0B236251
Description CAMP Station #5
Location 1598 Hertel Ave,
Buffalo, NY 14216, USA

© Netronix 2018

Begin	8/14/2018 8:16
End	8/14/2018 16:45
Sample Period(s)	60
Number of Records	509

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	4
High Alarm	8
Over Alarm	15000
STEL Alarm	2
TWA Alarm	1
Measurement Gas	Isobutene
Calibration Time	8/10/2018 16:23
Peak	N/A
Min	N/A
Average	N/A

****

Datalog

Index	Date/Time	VOC(ppm) (Avg)
1	8/14/2018 8:17	0
2	8/14/2018 8:18	0
3	8/14/2018 8:19	0
4	8/14/2018 8:20	0
5	8/14/2018 8:21	0
6	8/14/2018 8:22	0
7	8/14/2018 8:23	0
8	8/14/2018 8:24	0
9	8/14/2018 8:25	0
10	8/14/2018 8:26	0
11	8/14/2018 8:27	0
12	8/14/2018 8:28	0
13	8/14/2018 8:29	0
14	8/14/2018 8:30	0
15	8/14/2018 8:31	0
16	8/14/2018 8:32	0
17	8/14/2018 8:33	0
18	8/14/2018 8:34	0
19	8/14/2018 8:35	0
20	8/14/2018 8:36	0
21	8/14/2018 8:37	0
22	8/14/2018 8:38	0
23	8/14/2018 8:39	0
24	8/14/2018 8:40	0

25	8/14/2018 8:41	0
26	8/14/2018 8:42	0
27	8/14/2018 8:43	0
28	8/14/2018 8:44	0
29	8/14/2018 8:45	0
30	8/14/2018 8:46	0
31	8/14/2018 8:47	0
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33	8/14/2018 8:49	0
34	8/14/2018 8:50	0
35	8/14/2018 8:51	0
36	8/14/2018 8:52	0
37	8/14/2018 8:53	0
38	8/14/2018 8:54	0
39	8/14/2018 8:55	0
40	8/14/2018 8:56	0
41	8/14/2018 8:57	0
42	8/14/2018 8:58	0
43	8/14/2018 8:59	0
44	8/14/2018 9:00	0
45	8/14/2018 9:01	0
46	8/14/2018 9:02	0
47	8/14/2018 9:03	0
48	8/14/2018 9:04	0
49	8/14/2018 9:05	0
50	8/14/2018 9:06	0
51	8/14/2018 9:07	0
52	8/14/2018 9:08	0
53	8/14/2018 9:09	0
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55	8/14/2018 9:11	0
56	8/14/2018 9:12	0
57	8/14/2018 9:13	0
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59	8/14/2018 9:15	0
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66	8/14/2018 9:22	0
67	8/14/2018 9:23	0
68	8/14/2018 9:24	0
69	8/14/2018 9:25	0
70	8/14/2018 9:26	0
71	8/14/2018 9:27	0

72	8/14/2018 9:28	0
73	8/14/2018 9:29	0
74	8/14/2018 9:30	0
75	8/14/2018 9:31	0
76	8/14/2018 9:32	0
77	8/14/2018 9:33	0
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106	8/14/2018 10:02	0
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163	8/14/2018 10:59	0
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166	8/14/2018 11:02	0
167	8/14/2018 11:03	0
168	8/14/2018 11:04	0
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171	8/14/2018 11:07	0
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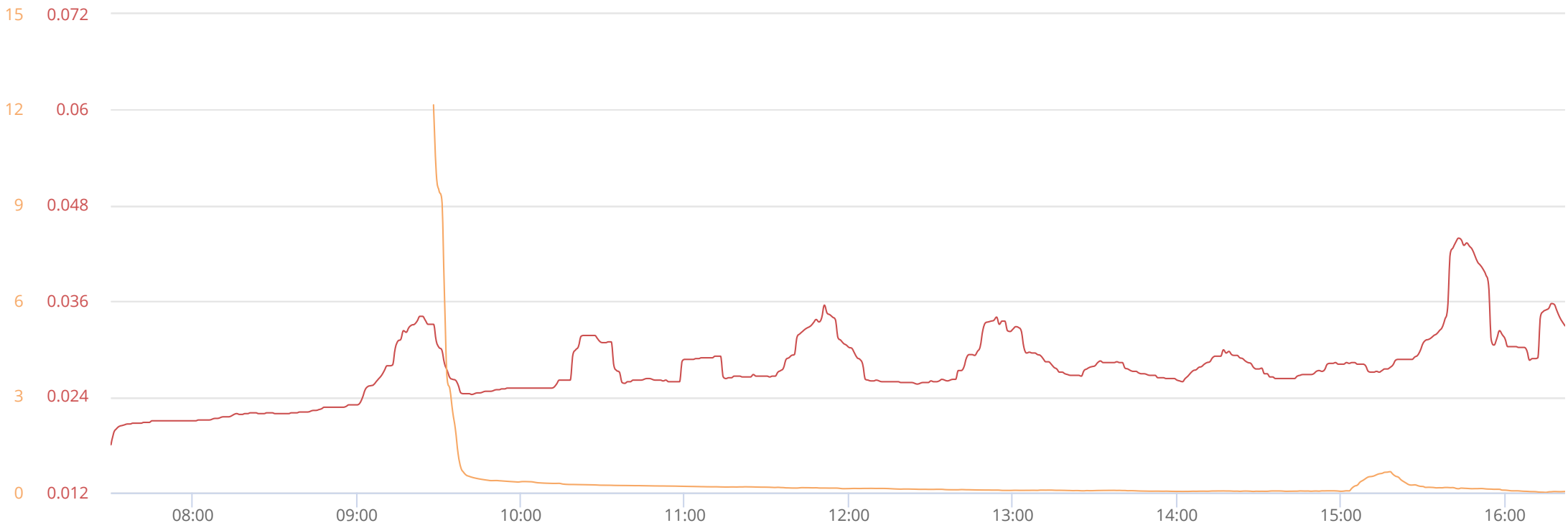
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	507	8/14/2018 16:43	0
	508	8/14/2018 16:44	0
	509	8/14/2018 16:45	0
Peak			0
Min			0
Average			0

enviro net

Wed, 15th of Aug 2018, 7:00:00 – 17:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.018	**0.0275**	**0.0439**

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.0058	**0.2941**	**12.153**

Name Benchmark & Turnkey
S/N 0B236251
Description CAMP Station #5
Location 1598 Hertel Ave,
Buffalo, NY 14216, USA

© Netronix 2018

18/08/15 08:25

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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905528
Unit Firmware Ver	V1.06A

Running Mode	Hygiene Mode
Measure Type	Avg
Datalog Mode	Continuous
Datalog Type	Auto
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	RAE00022
User ID	1

Begin	8/15/2018 8:25
End	8/15/2018 17:09
Sample Period(s)	60
Number of Records	524

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	4
High Alarm	8
Over Alarm	15000
STEL Alarm	2
TWA Alarm	1
Measurement Gas	Isobutene
Calibration Time	8/10/2018 16:23
Peak	N/A
Min	N/A
Average	N/A

****

Datalog

Index	Date/Time	VOC(ppm) (Avg)
1	8/15/2018 8:26	0
2	8/15/2018 8:27	0
3	8/15/2018 8:28	0
4	8/15/2018 8:29	0
5	8/15/2018 8:30	0
6	8/15/2018 8:31	0

7	8/15/2018 8:32	0
8	8/15/2018 8:33	0
9	8/15/2018 8:34	0
10	8/15/2018 8:35	0
11	8/15/2018 8:36	0
12	8/15/2018 8:37	0
13	8/15/2018 8:38	0
14	8/15/2018 8:39	0
15	8/15/2018 8:40	0
16	8/15/2018 8:41	0
17	8/15/2018 8:42	0
18	8/15/2018 8:43	0
19	8/15/2018 8:44	0
20	8/15/2018 8:45	0
21	8/15/2018 8:46	0
22	8/15/2018 8:47	0
23	8/15/2018 8:48	0
24	8/15/2018 8:49	0
25	8/15/2018 8:50	0
26	8/15/2018 8:51	0
27	8/15/2018 8:52	0
28	8/15/2018 8:53	0
29	8/15/2018 8:54	0
30	8/15/2018 8:55	0
31	8/15/2018 8:56	0
32	8/15/2018 8:57	0
33	8/15/2018 8:58	0
34	8/15/2018 8:59	0
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36	8/15/2018 9:01	0
37	8/15/2018 9:02	0
38	8/15/2018 9:03	0
39	8/15/2018 9:04	0
40	8/15/2018 9:05	0
41	8/15/2018 9:06	0
42	8/15/2018 9:07	0
43	8/15/2018 9:08	0
44	8/15/2018 9:09	0
45	8/15/2018 9:10	0
46	8/15/2018 9:11	0
47	8/15/2018 9:12	0
48	8/15/2018 9:13	0
49	8/15/2018 9:14	0
50	8/15/2018 9:15	0
51	8/15/2018 9:16	0
52	8/15/2018 9:17	0
53	8/15/2018 9:18	0

54	8/15/2018 9:19	0
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56	8/15/2018 9:21	0
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65	8/15/2018 9:30	0
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67	8/15/2018 9:32	0
68	8/15/2018 9:33	0
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73	8/15/2018 9:38	0
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92	8/15/2018 9:57	23
93	8/15/2018 9:58	38
94	8/15/2018 9:59	45
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97	8/15/2018 10:02	16
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99	8/15/2018 10:04	20
100	8/15/2018 10:05	7

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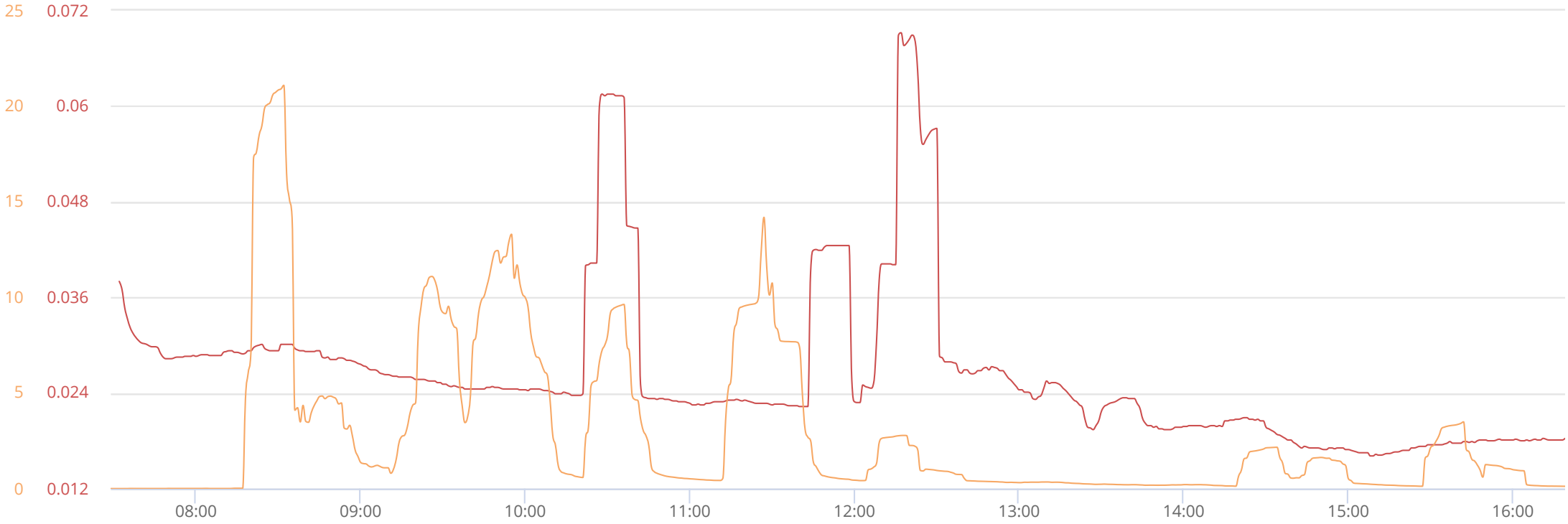
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522	8/15/2018 17:07	0
523	8/15/2018 17:08	0

	524	8/15/2018 17:09	0
Peak			45
Min			0
Average			1

enviro net™

Thu, 16th of Aug 2018, 7:00:00 – 17:00:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.0161	**0.0263**	**0.0692**

VOC ppm AVG 15m ppm

miniRAE 3000

RS232(A)

MIN	AVG	MAX
0	**2.9243**	**21.086**

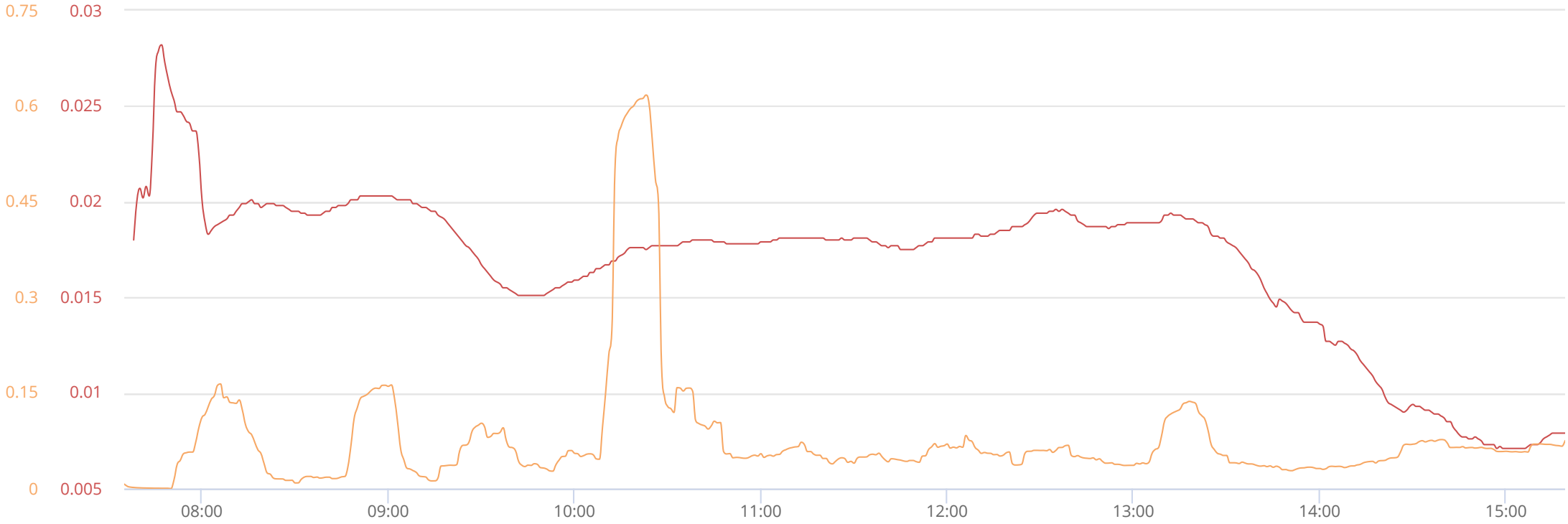
Name	Benchmark & Turnkey
S/N	0B236251
Description	CAMP Station #5
Location	1598 Hertel Ave, Buffalo, NY 14216, USA

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Fri, 17th of Aug 2018, 7:00:00 – 17:00:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.0071	0.0168	0.0282

VOC ppm AVG 15m ppm

miniRAE 3000

RS232(A)

MIN	AVG	MAX
0	0.0773	0.6173

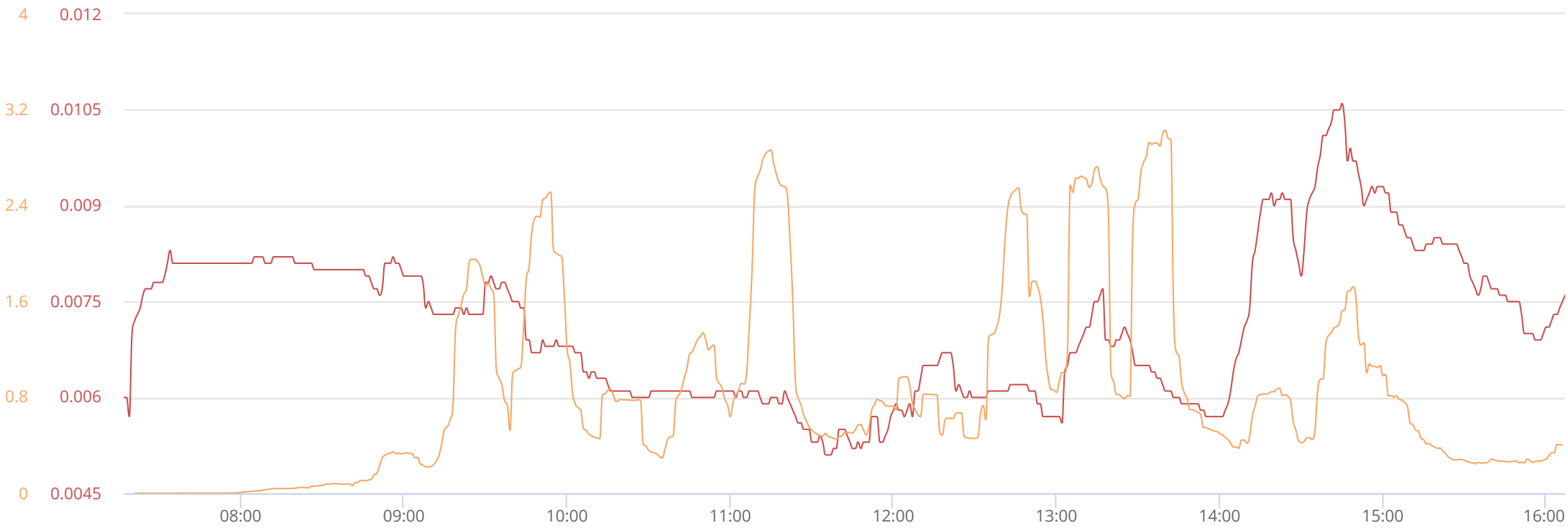
Name	Benchmark & Turnkey
S/N	0B236251
Description	CAMP Station #5
Location	1598 Hertel Ave, Buffalo, NY 14216, USA

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Mon, 20th of Aug 2018, 7:00:00 – 17:00:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.0051	**0.0071**	**0.0106**

VOC ppm AVG 15m ppm

miniRAE 3000

RS232(A)

MIN	AVG	MAX
0	**0.8547**	**3.0296**

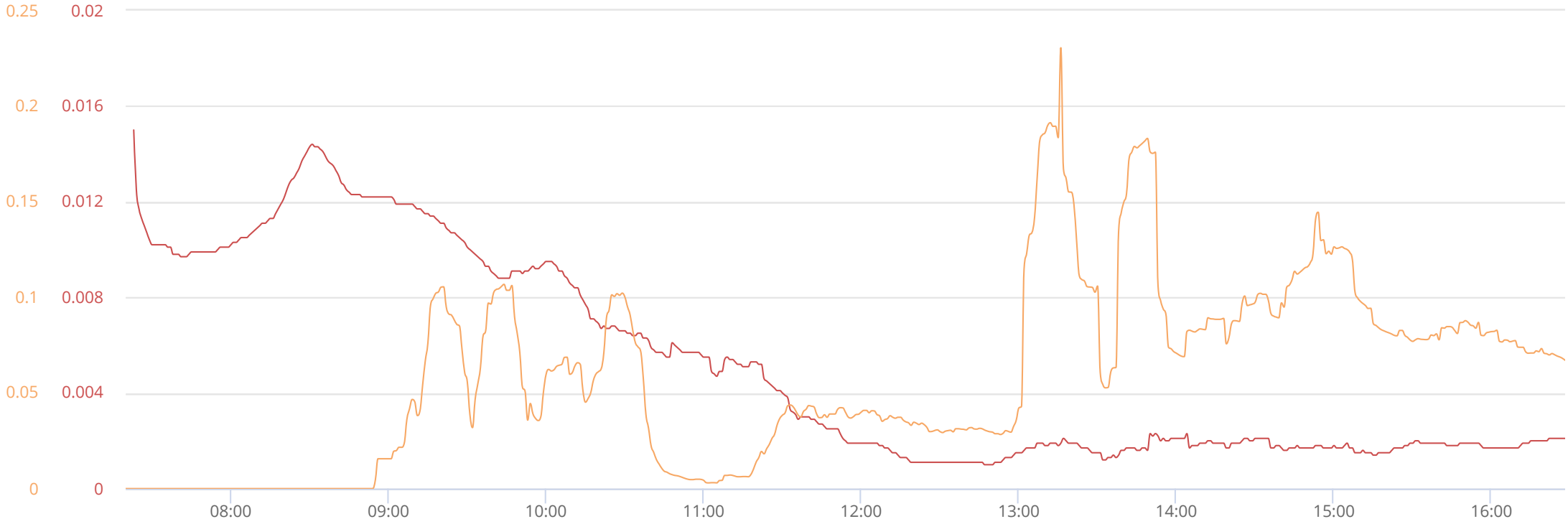
Name	Benchmark & Turnkey
S/N	0B236251
Description	CAMP Station #5
Location	1598 Hertel Ave, Buffalo, NY 14216, USA

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Tue, 21st of Aug 2018, 7:00:00 – 17:00:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.001	0.0052	0.015

VOC ppm AVG 15m ppm

miniRAE 3000

RS232(A)

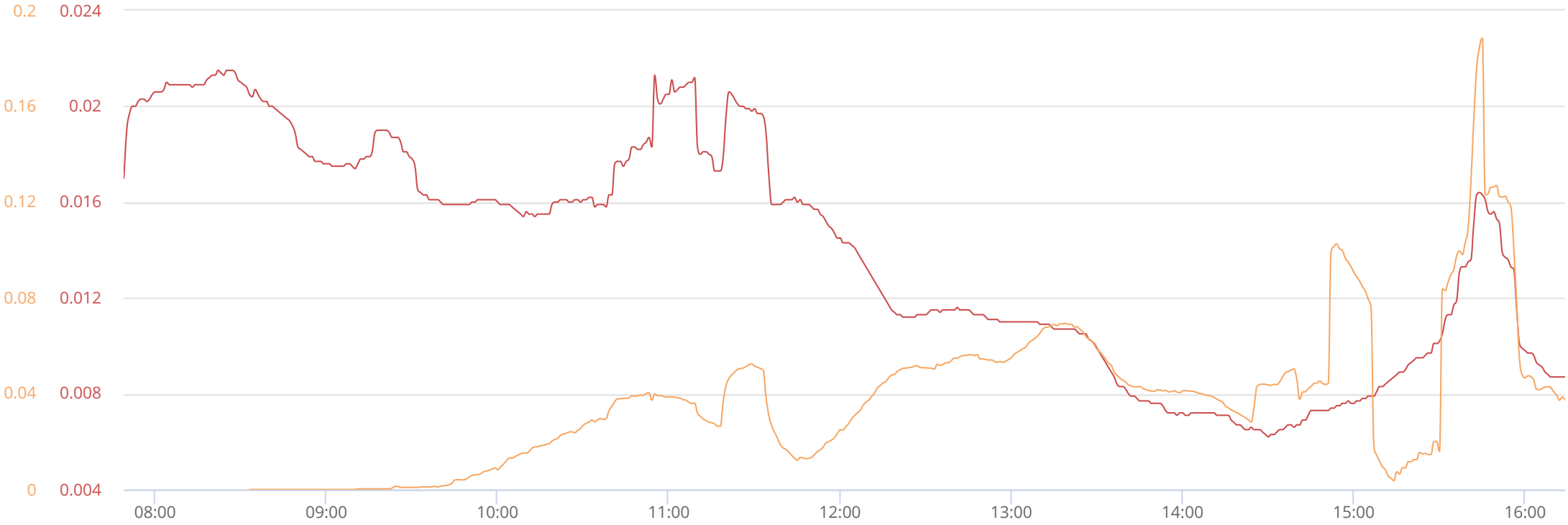
MIN	AVG	MAX
0	0.0581	0.2305

Name	Benchmark & Turnkey
S/N	0B236251
Description	CAMP Station #5
Location	1598 Hertel Ave, Buffalo, NY 14216, USA

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Wed, 22nd of Aug 2018, 7:00:00 – 17:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0062	0.0139	0.0215

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.0377	0.1884

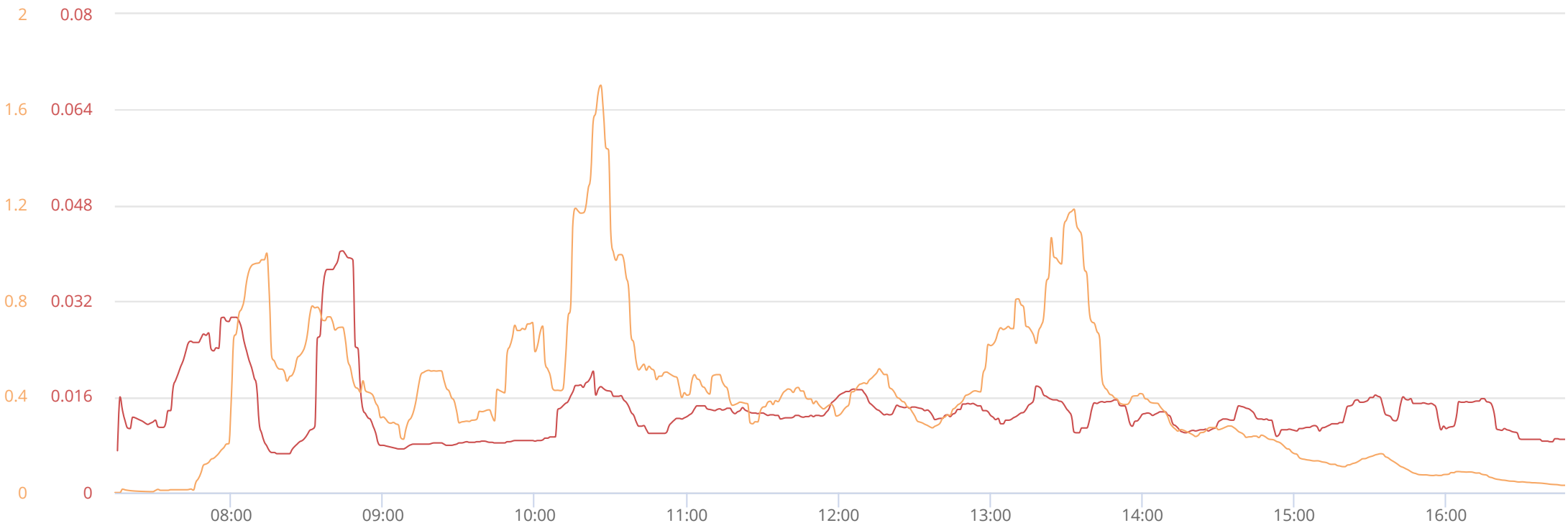
Name Benchmark & Turnkey
S/N 0B236251
Description CAMP Station #5
Location 1598 Hertel Ave,
Buffalo, NY 14216, USA

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Thu, 23rd of Aug 2018, 7:00:00 – 17:00:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.0065	0.0137	0.0404

VOC ppm AVG 15m ppm

miniRAE 3000

RS232(A)

MIN	AVG	MAX
0	0.4012	1.7026

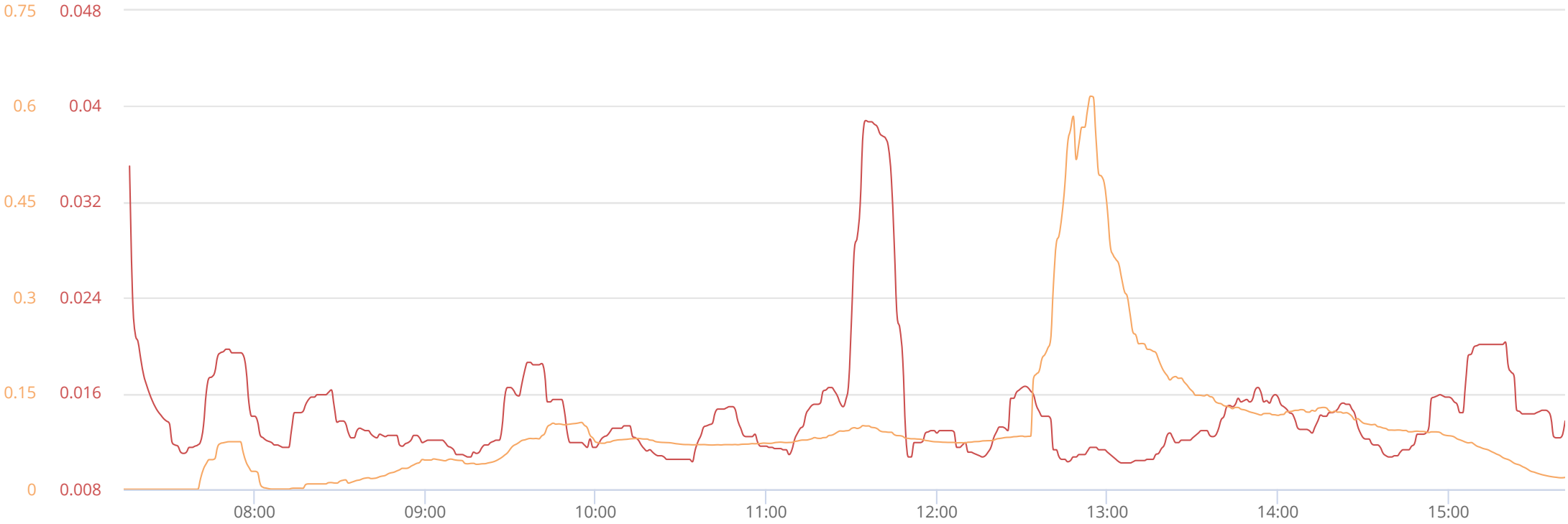
Name	Benchmark & Turnkey
S/N	0B236251
Description	CAMP Station #5
Location	1598 Hertel Ave, Buffalo, NY 14216, USA

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Fri, 24th of Aug 2018, 7:00:00 – 17:00:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.0102	**0.0143**	**0.0388**

VOC ppm AVG 15m ppm

miniRAE 3000

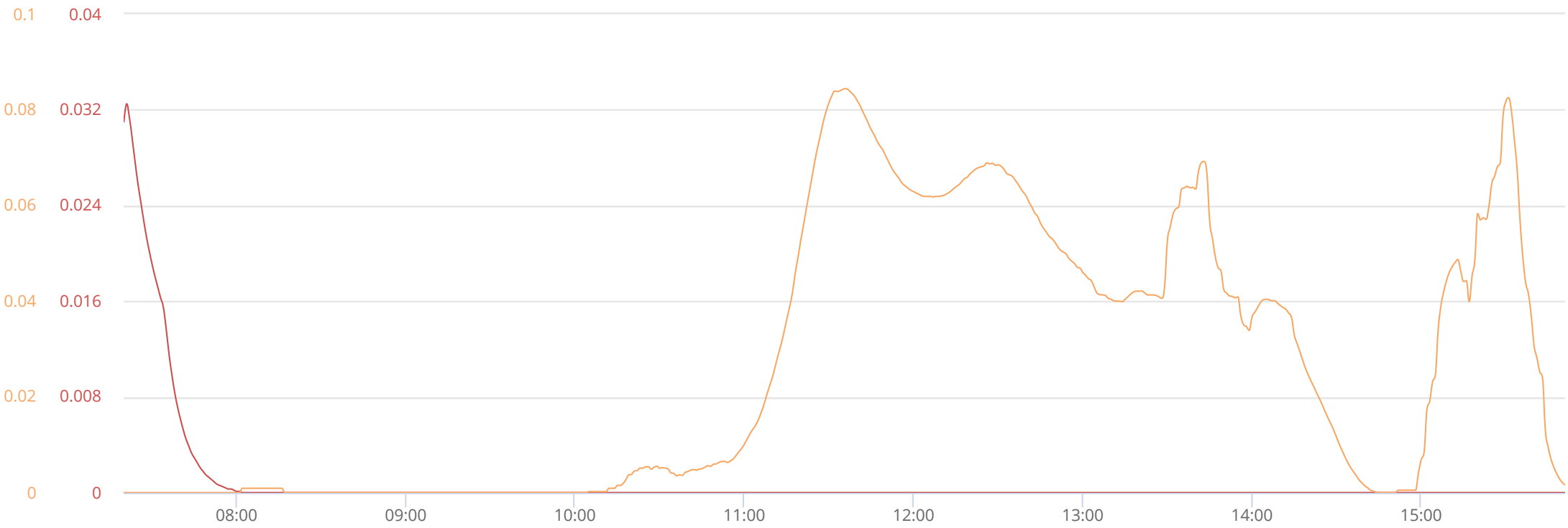
RS232(A)

MIN	AVG	MAX
0	**0.096**	**0.6157**

Name	Benchmark & Turnkey
S/N	0B236251
Description	CAMP Station #5
Location	1598 Hertel Ave, Buffalo, NY 14216, USA

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Mon, 27th of Aug 2018, 7:00:00 – 17:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0	0	0.0325

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.026	0.0844

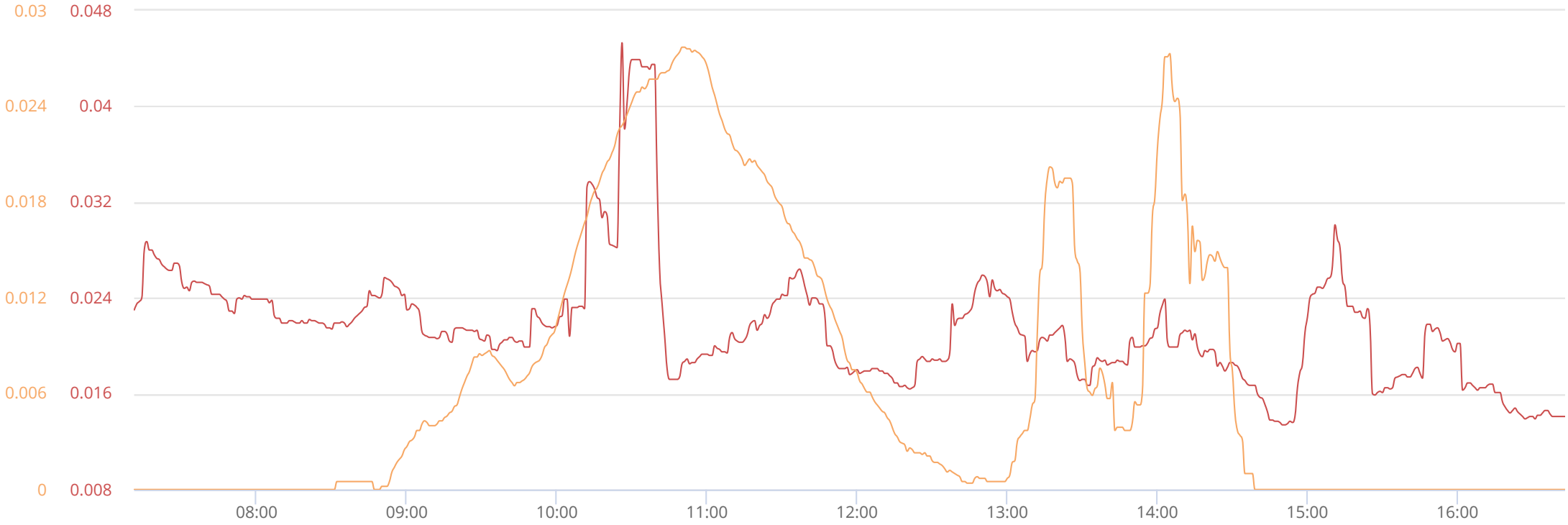
Name Benchmark & Turnkey
S/N 0B236251
Description CAMP Station #5
Location 1598 Hertel Ave,
Buffalo, NY 14216, USA

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Tue, 28th of Aug 2018, 7:00:00 – 17:00:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.0134	**0.0215**	**0.0453**

VOC ppm AVG 15m ppm

miniRAE 3000

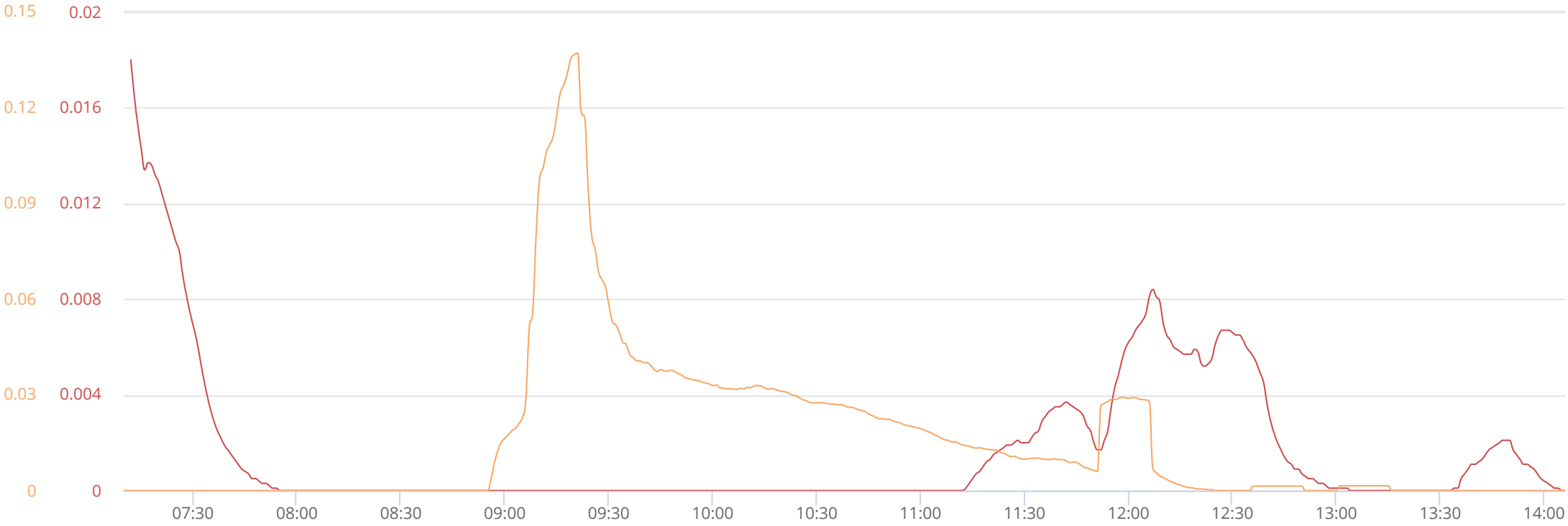
RS232(A)

MIN	AVG	MAX
0	**0**	**0.0277**

Name Benchmark & Turnkey
S/N 0B236251
Description CAMP Station #5
Location 1598 Hertel Ave,
Buffalo, NY 14216, USA

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Wed, 29th of Aug 2018, 7:00:00 – 17:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0	0.0017	0.018

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0.1371

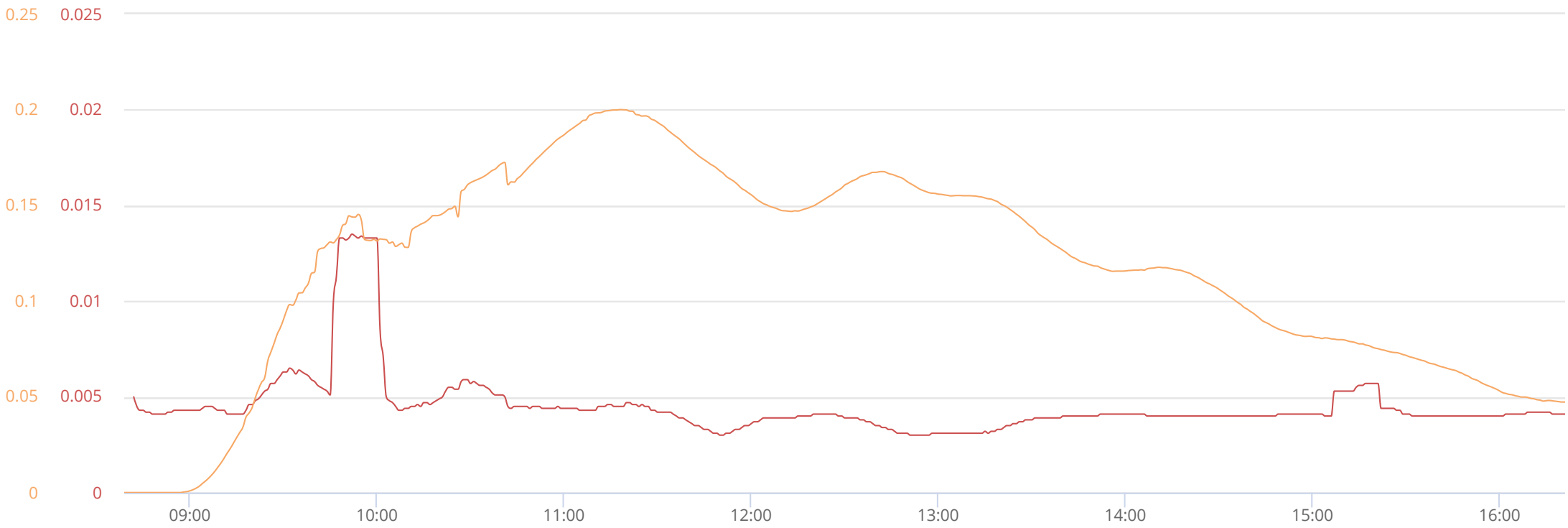
Name Benchmark & Turnkey
S/N 0B236251
Description CAMP Station #5
Location 1598 Hertel Ave,
Buffalo, NY 14216, USA

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Mon, 17th of Sep 2018, 8:00:00 – 17:00:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.003	**0.0045**	**0.0135**

VOC ppm AVG 15m ppm

miniRAE 3000

RS232(A)

MIN	AVG	MAX
0	**0.1175**	**0.2001**

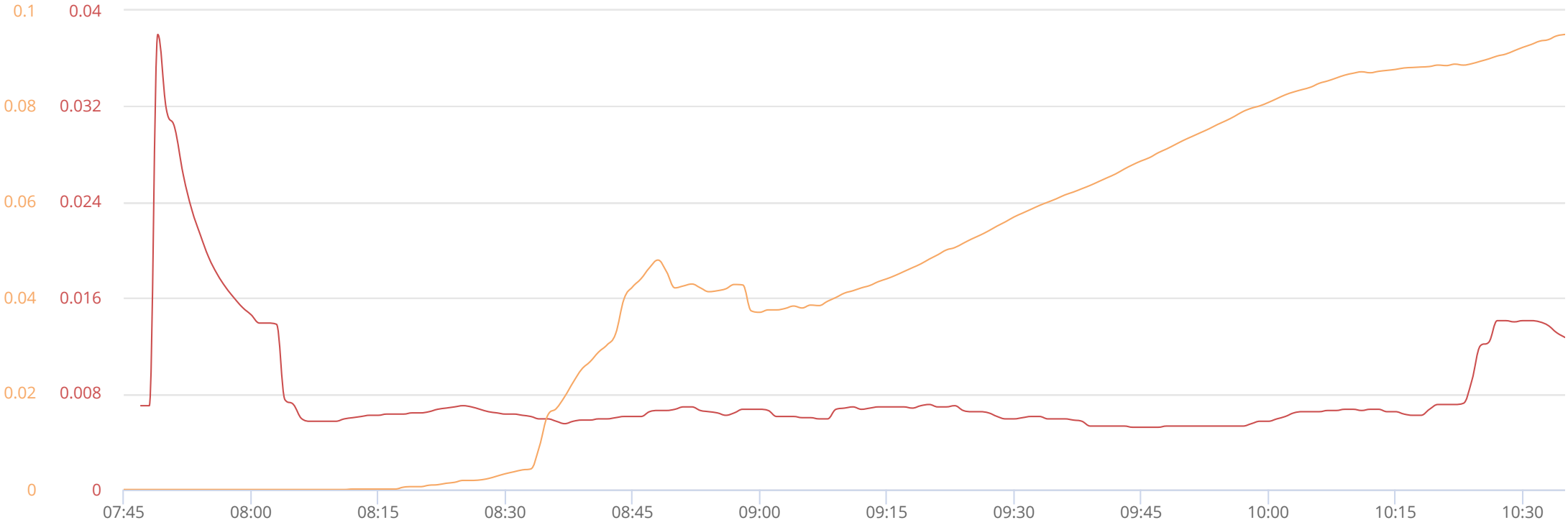
Name	Benchmark & Turnkey
S/N	0B236251
Description	CAMP Station #5
Location	1598 Hertel Ave, Buffalo, NY 14216, USA

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Tue, 18th of Sep 2018, 7:00:00 – 13:00:00

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³

DustTrak-8530

RS232(C)

MIN	AVG	MAX
0.0052	**0.008**	**0.038**

VOC ppm AVG 15m ppm

miniRAE 3000

RS232(A)

MIN	AVG	MAX
0	**0.0436**	**0.0947**

Name	Benchmark & Turnkey
S/N	0B236251
Description	CAMP Station #5
Location	1598 Hertel Ave, Buffalo, NY 14216, USA

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Test 045

Instrument		Data Properties	
Model	DustTrak II	Start Date	10/15/2018
Instrument S/N	8530173504	Start Time	12:05:03
		Stop Date	10/15/2018
		Stop Time	14:28:03
		Total Time	0:02:23:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.012 mg/m^3
Max	0.048 mg/m^3
Max Date	10/15/2018
Max Time	14:25:03
Min	0.006 mg/m^3
Min Date	10/15/2018
Min Time	12:37:03
TWA (8 hr)	0.004
TWA Start Date	10/15/2018
TWA Start Time	12:05:03
TWA End Time	14:28:03

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	10/15/2018	12:06:03	0.009
2	10/15/2018	12:07:03	0.008
3	10/15/2018	12:08:03	0.009
4	10/15/2018	12:09:03	0.012
5	10/15/2018	12:10:03	0.011
6	10/15/2018	12:11:03	0.009
7	10/15/2018	12:12:03	0.008
8	10/15/2018	12:13:03	0.008
9	10/15/2018	12:14:03	0.008
10	10/15/2018	12:15:03	0.008
11	10/15/2018	12:16:03	0.008
12	10/15/2018	12:17:03	0.010
13	10/15/2018	12:18:03	0.007
14	10/15/2018	12:19:03	0.008
15	10/15/2018	12:20:03	0.007
16	10/15/2018	12:21:03	0.007
17	10/15/2018	12:22:03	0.007
18	10/15/2018	12:23:03	0.008
19	10/15/2018	12:24:03	0.007
20	10/15/2018	12:25:03	0.007
21	10/15/2018	12:26:03	0.008

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
22	10/15/2018	12:27:03	0.007
23	10/15/2018	12:28:03	0.007
24	10/15/2018	12:29:03	0.007
25	10/15/2018	12:30:03	0.008
26	10/15/2018	12:31:03	0.008
27	10/15/2018	12:32:03	0.007
28	10/15/2018	12:33:03	0.007
29	10/15/2018	12:34:03	0.008
30	10/15/2018	12:35:03	0.007
31	10/15/2018	12:36:03	0.007
32	10/15/2018	12:37:03	0.006
33	10/15/2018	12:38:03	0.006
34	10/15/2018	12:39:03	0.007
35	10/15/2018	12:40:03	0.007
36	10/15/2018	12:41:03	0.008
37	10/15/2018	12:42:03	0.007
38	10/15/2018	12:43:03	0.007
39	10/15/2018	12:44:03	0.007
40	10/15/2018	12:45:03	0.007
41	10/15/2018	12:46:03	0.007
42	10/15/2018	12:47:03	0.008
43	10/15/2018	12:48:03	0.007
44	10/15/2018	12:49:03	0.007
45	10/15/2018	12:50:03	0.008
46	10/15/2018	12:51:03	0.007
47	10/15/2018	12:52:03	0.008
48	10/15/2018	12:53:03	0.010
49	10/15/2018	12:54:03	0.011
50	10/15/2018	12:55:03	0.012
51	10/15/2018	12:56:03	0.008
52	10/15/2018	12:57:03	0.015
53	10/15/2018	12:58:03	0.014
54	10/15/2018	12:59:03	0.015
55	10/15/2018	13:00:03	0.020
56	10/15/2018	13:01:03	0.010
57	10/15/2018	13:02:03	0.014
58	10/15/2018	13:03:03	0.016
59	10/15/2018	13:04:03	0.014
60	10/15/2018	13:05:03	0.014
61	10/15/2018	13:06:03	0.013
62	10/15/2018	13:07:03	0.012
63	10/15/2018	13:08:03	0.016
64	10/15/2018	13:09:03	0.016
65	10/15/2018	13:10:03	0.014
66	10/15/2018	13:11:03	0.015
67	10/15/2018	13:12:03	0.015

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
68	10/15/2018	13:13:03	0.011
69	10/15/2018	13:14:03	0.012
70	10/15/2018	13:15:03	0.022
71	10/15/2018	13:16:03	0.035
72	10/15/2018	13:17:03	0.022
73	10/15/2018	13:18:03	0.021
74	10/15/2018	13:19:03	0.014
75	10/15/2018	13:20:03	0.015
76	10/15/2018	13:21:03	0.012
77	10/15/2018	13:22:03	0.010
78	10/15/2018	13:23:03	0.010
79	10/15/2018	13:24:03	0.012
80	10/15/2018	13:25:03	0.015
81	10/15/2018	13:26:03	0.017
82	10/15/2018	13:27:03	0.015
83	10/15/2018	13:28:03	0.013
84	10/15/2018	13:29:03	0.016
85	10/15/2018	13:30:03	0.016
86	10/15/2018	13:31:03	0.013
87	10/15/2018	13:32:03	0.012
88	10/15/2018	13:33:03	0.012
89	10/15/2018	13:34:03	0.010
90	10/15/2018	13:35:03	0.013
91	10/15/2018	13:36:03	0.010
92	10/15/2018	13:37:03	0.017
93	10/15/2018	13:38:03	0.011
94	10/15/2018	13:39:03	0.010
95	10/15/2018	13:40:03	0.011
96	10/15/2018	13:41:03	0.009
97	10/15/2018	13:42:03	0.012
98	10/15/2018	13:43:03	0.009
99	10/15/2018	13:44:03	0.008
100	10/15/2018	13:45:03	0.009
101	10/15/2018	13:46:03	0.009
102	10/15/2018	13:47:03	0.010
103	10/15/2018	13:48:03	0.009
104	10/15/2018	13:49:03	0.009
105	10/15/2018	13:50:03	0.011
106	10/15/2018	13:51:03	0.010
107	10/15/2018	13:52:03	0.010
108	10/15/2018	13:53:03	0.013
109	10/15/2018	13:54:03	0.009
110	10/15/2018	13:55:03	0.010
111	10/15/2018	13:56:03	0.010
112	10/15/2018	13:57:03	0.009
113	10/15/2018	13:58:03	0.012

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
114	10/15/2018	13:59:03	0.011
115	10/15/2018	14:00:03	0.012
116	10/15/2018	14:01:03	0.011
117	10/15/2018	14:02:03	0.011
118	10/15/2018	14:03:03	0.012
119	10/15/2018	14:04:03	0.013
120	10/15/2018	14:05:03	0.012
121	10/15/2018	14:06:03	0.013
122	10/15/2018	14:07:03	0.014
123	10/15/2018	14:08:03	0.014
124	10/15/2018	14:09:03	0.014
125	10/15/2018	14:10:03	0.015
126	10/15/2018	14:11:03	0.016
127	10/15/2018	14:12:03	0.015
128	10/15/2018	14:13:03	0.016
129	10/15/2018	14:14:03	0.018
130	10/15/2018	14:15:03	0.016
131	10/15/2018	14:16:03	0.017
132	10/15/2018	14:17:03	0.015
133	10/15/2018	14:18:03	0.015
134	10/15/2018	14:19:03	0.015
135	10/15/2018	14:20:03	0.015
136	10/15/2018	14:21:03	0.017
137	10/15/2018	14:22:03	0.018
138	10/15/2018	14:23:03	0.018
139	10/15/2018	14:24:03	0.015
140	10/15/2018	14:25:03	0.048
141	10/15/2018	14:26:03	0.027
142	10/15/2018	14:27:03	0.017
143	10/15/2018	14:28:03	0.018

==========
18/10/15 12:05
****
Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-912719
Unit Firmw V2.16

Running M Hygiene Mode
Datalog Mc Manual
Diagnostic No
Stop Reaso Power Down

Site ID RAE00000
User ID 1

Begin 10/15/2018 12:05
End 10/15/2018 14:29
Sample Per 60
Number of 143

Sensor PID(ppm)
Sensor SN S023030214R5
Measure T Avg
Span 100
Span 2 1000
Low Alarm 50
High Alarm 100
Over Alarm 15000
STEL Alarm 225
TWA Alarm 10
Measurem Isobutylene
Calibration 10/10/2018 12:41
Peak N/A
Min N/A
Average N/A

****
Datalog

Index	Date/Time	PID(ppm) (Avg)
1	10/15/2018 12:06	0
2	10/15/2018 12:07	0
3	10/15/2018 12:08	0
4	10/15/2018 12:09	0
5	10/15/2018 12:10	0

6	10/15/2018 12:11	0
7	10/15/2018 12:12	0
8	10/15/2018 12:13	0
9	10/15/2018 12:14	0
10	10/15/2018 12:15	0
11	10/15/2018 12:16	0
12	10/15/2018 12:17	0
13	10/15/2018 12:18	0
14	10/15/2018 12:19	0
15	10/15/2018 12:20	0
16	10/15/2018 12:21	0
17	10/15/2018 12:22	0
18	10/15/2018 12:23	0
19	10/15/2018 12:24	0
20	10/15/2018 12:25	0
21	10/15/2018 12:26	0
22	10/15/2018 12:27	0
23	10/15/2018 12:28	0
24	10/15/2018 12:29	0
25	10/15/2018 12:30	0
26	10/15/2018 12:31	0
27	10/15/2018 12:32	0
28	10/15/2018 12:33	0
29	10/15/2018 12:34	0
30	10/15/2018 12:35	0
31	10/15/2018 12:36	0
32	10/15/2018 12:37	0
33	10/15/2018 12:38	0
34	10/15/2018 12:39	0
35	10/15/2018 12:40	0
36	10/15/2018 12:41	0
37	10/15/2018 12:42	0
38	10/15/2018 12:43	0
39	10/15/2018 12:44	0
40	10/15/2018 12:45	0
41	10/15/2018 12:46	0
42	10/15/2018 12:47	0
43	10/15/2018 12:48	0
44	10/15/2018 12:49	0
45	10/15/2018 12:50	0
46	10/15/2018 12:51	0
47	10/15/2018 12:52	0
48	10/15/2018 12:53	0
49	10/15/2018 12:54	0
50	10/15/2018 12:55	0
51	10/15/2018 12:56	0
52	10/15/2018 12:57	0

53	10/15/2018 12:58	0
54	10/15/2018 12:59	0
55	10/15/2018 13:00	0
56	10/15/2018 13:01	0
57	10/15/2018 13:02	0
58	10/15/2018 13:03	0
59	10/15/2018 13:04	0
60	10/15/2018 13:05	0
61	10/15/2018 13:06	0
62	10/15/2018 13:07	0
63	10/15/2018 13:08	0
64	10/15/2018 13:09	0
65	10/15/2018 13:10	0
66	10/15/2018 13:11	0
67	10/15/2018 13:12	0
68	10/15/2018 13:13	0
69	10/15/2018 13:14	0
70	10/15/2018 13:15	0
71	10/15/2018 13:16	0
72	10/15/2018 13:17	0
73	10/15/2018 13:18	0
74	10/15/2018 13:19	0
75	10/15/2018 13:20	0
76	10/15/2018 13:21	0
77	10/15/2018 13:22	0
78	10/15/2018 13:23	0
79	10/15/2018 13:24	0
80	10/15/2018 13:25	0
81	10/15/2018 13:26	0
82	10/15/2018 13:27	0
83	10/15/2018 13:28	0
84	10/15/2018 13:29	0
85	10/15/2018 13:30	0
86	10/15/2018 13:31	0
87	10/15/2018 13:32	0
88	10/15/2018 13:33	0
89	10/15/2018 13:34	0
90	10/15/2018 13:35	0
91	10/15/2018 13:36	0
92	10/15/2018 13:37	0
93	10/15/2018 13:38	0
94	10/15/2018 13:39	0
95	10/15/2018 13:40	0
96	10/15/2018 13:41	0
97	10/15/2018 13:42	0
98	10/15/2018 13:43	0
99	10/15/2018 13:44	0

100	10/15/2018 13:45	0
101	10/15/2018 13:46	0
102	10/15/2018 13:47	0
103	10/15/2018 13:48	0
104	10/15/2018 13:49	0
105	10/15/2018 13:50	0
106	10/15/2018 13:51	0
107	10/15/2018 13:52	0
108	10/15/2018 13:53	0
109	10/15/2018 13:54	0
110	10/15/2018 13:55	0
111	10/15/2018 13:56	0
112	10/15/2018 13:57	0
113	10/15/2018 13:58	0
114	10/15/2018 13:59	0
115	10/15/2018 14:00	0
116	10/15/2018 14:01	0
117	10/15/2018 14:02	0
118	10/15/2018 14:03	0
119	10/15/2018 14:04	0
120	10/15/2018 14:05	0
121	10/15/2018 14:06	0
122	10/15/2018 14:07	0
123	10/15/2018 14:08	0
124	10/15/2018 14:09	0
125	10/15/2018 14:10	0
126	10/15/2018 14:11	0
127	10/15/2018 14:12	0
128	10/15/2018 14:13	0
129	10/15/2018 14:14	0
130	10/15/2018 14:15	0
131	10/15/2018 14:16	0
132	10/15/2018 14:17	0
133	10/15/2018 14:18	0
134	10/15/2018 14:19	0
135	10/15/2018 14:20	0
136	10/15/2018 14:21	0
137	10/15/2018 14:22	0
138	10/15/2018 14:23	0
139	10/15/2018 14:24	0
140	10/15/2018 14:25	0
141	10/15/2018 14:26	0
142	10/15/2018 14:27	0
143	10/15/2018 14:28	0
Peak		0
Min		0
Average		0

APPENDIX D

HYDRAULIC GRADIENT CALCULATIONS

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Sheet 1 of 1
Project No.
By Date
Checked Date
Subject Hydraulic Gradient Calc

Hydraulic Gradient Calc

MW-1 upgradient monitoring well: Elevation 492.9 ft

MW-1 – MW-2
492.9 ft – 488.0 ft = 4.9 ft

Distance Between the 2 wells is 105 ft

4.9 ft / 105 ft = 0.05 ft/ft

MW-4 upgradient monitoring well: Elevation 497.9 ft

MW-4 – MW-2
497.9 – 488.0 = 9.9 ft

Distance Between th 2 wells is 112 ft

9.9 ft / 112 ft = 0.09 ft/ft

APPENDIX E

LABORATORY ANALYTICAL DATA
(PROVIDED ELECTRONICALLY ON ENCLOSED CD)

ANALYTICAL REPORT

Lab Number:	L1822712
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001
Report Date:	06/22/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1822712-01	WASTE CHAR #1 SB-9	SOIL	1585 HERTEL AVE.	06/15/18 11:00	06/15/18
L1822712-02	WASTE CHAR #2 SB-12	SOIL	1585 HERTEL AVE.	06/15/18 11:30	06/15/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

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: 1585 HERTEL AVE. **Lab Number:** L1822712
Project Number: 0437-017-001 **Report Date:** 06/22/18

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.

TCLP Volatiles

The WG1127603-5 Method Blank, associated with L1822712-01 and -02, has a concentration above the reporting limit for Tetrachloroethene. Since the samples were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

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: 06/22/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822712

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-01
Client ID: WASTE CHAR #1 SB-9
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/19/18 13:12
Analyst: MKS
Percent Solids: 84%
TCLP/SPLP Ext. Date: 06/18/18 15:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	2.0	J	ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130
dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822712

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-02
Client ID: WASTE CHAR #2 SB-12
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/19/18 13:46
Analyst: MKS
Percent Solids: 89%
TCLP/SPLP Ext. Date: 06/18/18 15:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	2.6	J	ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	112		70-130
dibromofluoromethane	106		70-130

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/19/18 12:39
Analyst: MKS
TCLP/SPLP Extraction Date: 06/18/18 15:43

Extraction Date: 06/18/18 15:43

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG1127603-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	18		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	115		70-130
dibromofluoromethane	106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG1127603-3 WG1127603-4								
Chloroform	120		120		70-130	0		20
Carbon tetrachloride	120		120		63-132	0		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		110		75-130	0		25
1,2-Dichloroethane	110		110		70-130	0		20
Benzene	110		110		70-130	0		25
Vinyl chloride	110		120		55-140	9		20
1,1-Dichloroethene	120		120		61-145	0		25
Trichloroethene	110		120		70-130	9		25
1,4-Dichlorobenzene	110		110		70-130	0		20
2-Butanone	85		84		63-138	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		100		70-130
Toluene-d8	97		100		70-130
4-Bromofluorobenzene	101		107		70-130
dibromofluoromethane	105		107		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1822712
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-01
Client ID: WASTE CHAR #1 SB-9
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/21/18 15:54
Analyst: SZ
Percent Solids: 84%
TCLP/SPLP Ext. Date: 06/16/18 23:19

Extraction Method: EPA 3510C
Extraction Date: 06/20/18 17:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	2.9	1
2,4-Dinitrotoluene	ND		ug/l	25	4.2	1
Hexachlorobutadiene	ND		ug/l	10	3.6	1
Hexachloroethane	ND		ug/l	10	3.4	1
Nitrobenzene	ND		ug/l	10	3.8	1
2,4,6-Trichlorophenol	ND		ug/l	25	3.4	1
Pentachlorophenol	ND		ug/l	50	17.	1
2-Methylphenol	ND		ug/l	25	5.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6	1
2,4,5-Trichlorophenol	ND		ug/l	25	3.6	1
Pyridine	ND		ug/l	18	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	66		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	86		33-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1822712
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-02
Client ID: WASTE CHAR #2 SB-12
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/21/18 16:20
Analyst: SZ
Percent Solids: 89%
TCLP/SPLP Ext. Date: 06/16/18 23:19

Extraction Method: EPA 3510C
Extraction Date: 06/20/18 17:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	2.9	1
2,4-Dinitrotoluene	ND		ug/l	25	4.2	1
Hexachlorobutadiene	ND		ug/l	10	3.6	1
Hexachloroethane	ND		ug/l	10	3.4	1
Nitrobenzene	ND		ug/l	10	3.8	1
2,4,6-Trichlorophenol	ND		ug/l	25	3.4	1
Pentachlorophenol	ND		ug/l	50	17.	1
2-Methylphenol	ND		ug/l	25	5.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6	1
2,4,5-Trichlorophenol	ND		ug/l	25	3.6	1
Pyridine	ND		ug/l	18	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	88		33-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/21/18 14:12
Analyst: SZ
TCLP/SPLP Extraction Date: 06/16/18 23:19

Extraction Method: EPA 3510C
Extraction Date: 06/20/18 17:11

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG1128028-1					
Hexachlorobenzene	ND		ug/l	10	2.9
2,4-Dinitrotoluene	ND		ug/l	25	4.2
Hexachlorobutadiene	ND		ug/l	10	3.6
Hexachloroethane	ND		ug/l	10	3.4
Nitrobenzene	ND		ug/l	10	3.8
2,4,6-Trichlorophenol	ND		ug/l	25	3.4
Pentachlorophenol	ND		ug/l	50	17.
2-Methylphenol	ND		ug/l	25	5.1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6
2,4,5-Trichlorophenol	ND		ug/l	25	3.6
Pyridine	ND		ug/l	18	9.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	72		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	92		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG1128028-2 WG1128028-3								
Hexachlorobenzene	80		74		40-140	8		30
2,4-Dinitrotoluene	98		94		40-132	4		30
Hexachlorobutadiene	69		68		28-111	1		30
Hexachloroethane	64		68		21-105	6		30
Nitrobenzene	84		82		40-140	2		30
2,4,6-Trichlorophenol	87		81		30-130	7		30
Pentachlorophenol	83		79		9-103	5		30
2-Methylphenol	82		78		30-130	5		30
3-Methylphenol/4-Methylphenol	87		85		30-130	2		30
2,4,5-Trichlorophenol	89		83		30-130	7		30
Pyridine	27		49		10-66	**58**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		70		21-120
Phenol-d6	76		69		10-120
Nitrobenzene-d5	85		82		23-120
2-Fluorobiphenyl	81		75		15-120
2,4,6-Tribromophenol	87		80		10-120
4-Terphenyl-d14	92		80		33-120

PCBS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822712
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-01
Client ID: WASTE CHAR #1 SB-9
Sample Location: 1585 HERTEL AVE.
Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/22/18 11:16
Analyst: HT
Percent Solids: 84%

Date Collected: 06/15/18 11:00
Date Received: 06/15/18
Field Prep: Not Specified

Extraction Method: EPA 3546
Extraction Date: 06/18/18 05:26
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.8	4.40	1	A
Aroclor 1221	ND		ug/kg	38.8	5.91	1	A
Aroclor 1232	ND		ug/kg	38.8	3.82	1	A
Aroclor 1242	ND		ug/kg	38.8	4.75	1	A
Aroclor 1248	ND		ug/kg	38.8	4.36	1	A
Aroclor 1254	ND		ug/kg	38.8	3.17	1	A
Aroclor 1260	ND		ug/kg	38.8	4.05	1	A
Aroclor 1262	ND		ug/kg	38.8	3.19	1	A
Aroclor 1268	ND		ug/kg	38.8	2.75	1	A
PCBs, Total	ND		ug/kg	38.8	2.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822712
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-02
Client ID: WASTE CHAR #2 SB-12
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/22/18 11:29
Analyst: HT
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 06/18/18 05:26
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	4.20	1	A
Aroclor 1221	ND		ug/kg	37.0	5.64	1	A
Aroclor 1232	ND		ug/kg	37.0	3.64	1	A
Aroclor 1242	ND		ug/kg	37.0	4.53	1	A
Aroclor 1248	ND		ug/kg	37.0	4.15	1	A
Aroclor 1254	ND		ug/kg	37.0	3.02	1	A
Aroclor 1260	ND		ug/kg	37.0	3.86	1	A
Aroclor 1262	ND		ug/kg	37.0	3.04	1	A
Aroclor 1268	ND		ug/kg	37.0	2.62	1	A
PCBs, Total	ND		ug/kg	37.0	2.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/19/18 19:37
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 06/18/18 05:26
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1126938-1						
Aroclor 1016	ND		ug/kg	32.7	3.71	A
Aroclor 1221	ND		ug/kg	32.7	4.98	A
Aroclor 1232	ND		ug/kg	32.7	3.22	A
Aroclor 1242	ND		ug/kg	32.7	4.00	A
Aroclor 1248	ND		ug/kg	32.7	3.67	A
Aroclor 1254	ND		ug/kg	32.7	2.67	A
Aroclor 1260	ND		ug/kg	32.7	3.42	A
Aroclor 1262	ND		ug/kg	32.7	2.69	A
Aroclor 1268	ND		ug/kg	32.7	2.32	A
PCBs, Total	ND		ug/kg	32.7	2.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	81		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822712

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1126938-2 WG1126938-3									
Aroclor 1016	65		66		40-140	2		50	A
Aroclor 1260	55		52		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		77		30-150	A
Decachlorobiphenyl	56		50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		79		30-150	B
Decachlorobiphenyl	74		65		30-150	B

PESTICIDES

Project Name: 1585 HERTEL AVE.
Lab Number: L1822712
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-01
Client ID: WASTE CHAR #1 SB-9
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 02:00
Analyst: KEG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.748	0.335	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.898	0.403	1	A
Aldrin	ND		ug/kg	1.80	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.748	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.786	1	A
Endrin ketone	ND		ug/kg	1.80	0.463	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	ND		ug/kg	1.80	0.415	1	A
4,4'-DDD	ND		ug/kg	1.80	0.641	1	A
4,4'-DDT	ND		ug/kg	3.37	1.44	1	A
Endosulfan I	ND		ug/kg	1.80	0.424	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.43	1	A
cis-Chlordane	ND		ug/kg	2.24	0.626	1	A
trans-Chlordane	ND		ug/kg	2.24	0.593	1	A
Chlordane	ND		ug/kg	14.6	5.95	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822712

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-01 Date Collected: 06/15/18 11:00

Client ID: WASTE CHAR #1 SB-9 Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: 1585 HERTEL AVE.
Lab Number: L1822712
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-01
Client ID: WASTE CHAR #1 SB-9
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/22/18 01:53
Analyst: KB
Percent Solids: 84%
Methylation Date: 06/20/18 21:13

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 20:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	12.4	1	A
2,4,5-T	ND		ug/kg	196	6.08	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	5.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	126		30-150	A
DCAA	97		30-150	B

Project Name: 1585 HERTEL AVE.
Lab Number: L1822712
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-02
Client ID: WASTE CHAR #2 SB-12
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 02:26
Analyst: KEG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.333	1	A
Lindane	ND		ug/kg	0.708	0.316	1	A
Alpha-BHC	ND		ug/kg	0.708	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.644	1	A
Heptachlor	ND		ug/kg	0.850	0.381	1	A
Aldrin	ND		ug/kg	1.70	0.598	1	A
Heptachlor epoxide	ND		ug/kg	3.19	0.956	1	A
Endrin	ND		ug/kg	0.708	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.744	1	A
Endrin ketone	ND		ug/kg	1.70	0.438	1	A
Dieldrin	ND		ug/kg	1.06	0.531	1	A
4,4'-DDE	ND		ug/kg	1.70	0.393	1	A
4,4'-DDD	ND		ug/kg	1.70	0.606	1	A
4,4'-DDT	ND		ug/kg	3.19	1.37	1	A
Endosulfan I	ND		ug/kg	1.70	0.402	1	A
Endosulfan II	ND		ug/kg	1.70	0.568	1	A
Endosulfan sulfate	ND		ug/kg	0.708	0.337	1	A
Methoxychlor	ND		ug/kg	3.19	0.991	1	A
Toxaphene	ND		ug/kg	31.9	8.92	1	A
cis-Chlordane	ND		ug/kg	2.12	0.592	1	A
trans-Chlordane	ND		ug/kg	2.12	0.561	1	A
Chlordane	ND		ug/kg	13.8	5.63	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822712

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-02 Date Collected: 06/15/18 11:30

Client ID: WASTE CHAR #2 SB-12 Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	43		30-150	A

Project Name: 1585 HERTEL AVE.
Lab Number: L1822712
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-02
Client ID: WASTE CHAR #2 SB-12
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/22/18 02:12
Analyst: KB
Percent Solids: 89%
Methylation Date: 06/20/18 21:13

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 20:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	185	11.6	1	A
2,4,5-T	ND		ug/kg	185	5.74	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**153**	Q	30-150	A
DCAA	111		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/20/18 03:15
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 06/19/18 04:04

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1127292-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.642	0.287	A
Alpha-BHC	ND		ug/kg	0.642	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.584	A
Heptachlor	ND		ug/kg	0.771	0.346	A
Aldrin	ND		ug/kg	1.54	0.543	A
Heptachlor epoxide	ND		ug/kg	2.89	0.867	A
Endrin	ND		ug/kg	0.642	0.263	A
Endrin aldehyde	ND		ug/kg	1.93	0.674	A
Endrin ketone	ND		ug/kg	1.54	0.397	A
Dieldrin	ND		ug/kg	0.963	0.482	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.550	A
4,4'-DDT	ND		ug/kg	2.89	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.364	A
Endosulfan II	ND		ug/kg	1.54	0.515	A
Endosulfan sulfate	ND		ug/kg	0.642	0.306	A
Methoxychlor	ND		ug/kg	2.89	0.899	A
Toxaphene	ND		ug/kg	28.9	8.09	A
cis-Chlordane	ND		ug/kg	1.93	0.537	A
trans-Chlordane	ND		ug/kg	1.93	0.509	A
Chlordane	ND		ug/kg	12.5	5.10	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/20/18 03:15
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 06/19/18 04:04

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1127292-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/20/18 12:11
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 06:22

Methylation Date: 06/19/18 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1127325-1						
2,4-D	ND		ug/kg	161	10.2	A
2,4,5-T	ND		ug/kg	161	5.00	A
2,4,5-TP (Silvex)	ND		ug/kg	161	4.29	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	113		30-150	A
DCAA	108		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822712

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1127292-2 WG1127292-3									
Delta-BHC	117		116		30-150	1		30	A
Lindane	113		112		30-150	1		30	A
Alpha-BHC	122		120		30-150	2		30	A
Beta-BHC	116		120		30-150	3		30	A
Heptachlor	105		106		30-150	1		30	A
Aldrin	111		111		30-150	0		30	A
Heptachlor epoxide	106		105		30-150	1		30	A
Endrin	110		117		30-150	6		30	A
Endrin aldehyde	101		113		30-150	11		30	A
Endrin ketone	115		127		30-150	10		30	A
Dieldrin	120		126		30-150	5		30	A
4,4'-DDE	111		118		30-150	6		30	A
4,4'-DDD	115		125		30-150	8		30	A
4,4'-DDT	112		124		30-150	10		30	A
Endosulfan I	105		109		30-150	4		30	A
Endosulfan II	108		115		30-150	6		30	A
Endosulfan sulfate	99		108		30-150	9		30	A
Methoxychlor	100		111		30-150	10		30	A
cis-Chlordane	95		99		30-150	4		30	A
trans-Chlordane	82		82		30-150	0		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822712

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1127292-2 WG1127292-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		77		30-150	B
Decachlorobiphenyl	84		90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		77		30-150	A
Decachlorobiphenyl	79		77		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822712

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1127325-2 WG1127325-3									
2,4-D	149		**154**	Q	30-150	3		30	A
2,4,5-T	112		115		30-150	3		30	A
2,4,5-TP (Silvex)	136		138		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	112		111		30-150	A
DCAA	110		114		30-150	B

METALS

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822712

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-01 Date Collected: 06/15/18 11:00

Client ID: WASTE CHAR #1 SB-9 Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 06/16/18 23:19

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	06/21/18 16:00	06/22/18 02:07	EPA 3015	1,6010C	MC
Barium, TCLP	1.34		mg/l	0.500	0.021	1	06/21/18 16:00	06/22/18 02:07	EPA 3015	1,6010C	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	06/21/18 16:00	06/22/18 02:07	EPA 3015	1,6010C	MC
Chromium, TCLP	0.074	J	mg/l	0.200	0.021	1	06/21/18 16:00	06/22/18 02:07	EPA 3015	1,6010C	MC
Lead, TCLP	0.031	J	mg/l	0.500	0.027	1	06/21/18 16:00	06/22/18 02:07	EPA 3015	1,6010C	MC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/21/18 15:23	06/22/18 10:20	EPA 7470A	1,7470A	KA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	06/21/18 16:00	06/22/18 02:07	EPA 3015	1,6010C	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	06/21/18 16:00	06/22/18 02:07	EPA 3015	1,6010C	MC

Project Name: 1585 HERTEL AVE.
Lab Number: L1822712
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-02
Client ID: WASTE CHAR #2 SB-12
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%
TCLP/SPLP Ext. Date: 06/16/18 23:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	06/21/18 16:00	06/22/18 03:05	EPA 3015	1,6010C	MC
Barium, TCLP	0.615		mg/l	0.500	0.021	1	06/21/18 16:00	06/22/18 03:05	EPA 3015	1,6010C	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	06/21/18 16:00	06/22/18 03:05	EPA 3015	1,6010C	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	06/21/18 16:00	06/22/18 03:05	EPA 3015	1,6010C	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	06/21/18 16:00	06/22/18 03:05	EPA 3015	1,6010C	MC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/21/18 15:23	06/22/18 10:29	EPA 7470A	1,7470A	KA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	06/21/18 16:00	06/22/18 03:05	EPA 3015	1,6010C	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	06/21/18 16:00	06/22/18 03:05	EPA 3015	1,6010C	MC

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822712
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-02 Batch: WG1128450-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/21/18 15:23	06/22/18 10:17	1,7470A	KA

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 06/16/18 23:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-02 Batch: WG1128464-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	06/21/18 16:00	06/21/18 23:31	1,6010C	MC
Barium, TCLP	ND		mg/l	0.500	0.021	1	06/21/18 16:00	06/21/18 23:31	1,6010C	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	06/21/18 16:00	06/21/18 23:31	1,6010C	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	06/21/18 16:00	06/21/18 23:31	1,6010C	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	06/21/18 16:00	06/21/18 23:31	1,6010C	MC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	06/21/18 16:00	06/21/18 23:31	1,6010C	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	06/21/18 16:00	06/21/18 23:31	1,6010C	MC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/16/18 23:19

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822712

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1128450-2								
Mercury, TCLP	91		-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1128464-2								
Arsenic, TCLP	97		-		75-125	-		20
Barium, TCLP	94		-		75-125	-		20
Cadmium, TCLP	99		-		75-125	-		20
Chromium, TCLP	102		-		75-125	-		20
Lead, TCLP	95		-		75-125	-		20
Selenium, TCLP	100		-		75-125	-		20
Silver, TCLP	103		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1128450-3 QC Sample: L1822712-01 Client ID: WASTE CHAR #1 SB-9												
Mercury, TCLP	ND	0.025	0.0239	96		-	-		80-120	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1128464-3 QC Sample: L1822712-01 Client ID: WASTE CHAR #1 SB-9												
Arsenic, TCLP	ND	1.2	1.22	102		-	-		75-125	-		20
Barium, TCLP	1.34	20	20.4	95		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.504	99		-	-		75-125	-		20
Chromium, TCLP	0.074J	2	2.00	100		-	-		75-125	-		20
Lead, TCLP	0.031J	5.1	4.78	94		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.22	102		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.532	106		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1128450-4 QC Sample: L1822712-01 Client ID: WASTE CHAR #1 SB-9						
Mercury, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1128464-4 QC Sample: L1822712-01 Client ID: WASTE CHAR #1 SB-9						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	1.34	1.21	mg/l	10		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	0.074J	ND	mg/l	NC		20
Lead, TCLP	0.031J	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-01
Client ID: WASTE CHAR #1 SB-9
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	06/16/18 11:30	121,2540G	RI
Flash Point	>150		deg F	70	NA	1	-	06/21/18 03:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/20/18 01:25	06/20/18 02:52	125,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/20/18 01:25	06/20/18 03:01	125,7.3	JD

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822712-02
Client ID: WASTE CHAR #2 SB-12
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	06/16/18 11:30	121,2540G	RI
Flash Point	>150		deg F	70	NA	1	-	06/21/18 03:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/20/18 01:25	06/20/18 02:52	125,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/20/18 01:25	06/20/18 03:01	125,7.3	JD

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822712
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1127702-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/20/18 01:25	06/20/18 03:00	125,7.3	JD
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1127708-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/20/18 01:25	06/20/18 02:51	125,7.3	JD

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822712

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1127702-2								
Sulfide, Reactive	119		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1127708-2								
Cyanide, Reactive	82		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1128139-1								
Flash Point	100		-		96-104	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822712

Report Date: 06/22/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1126690-1 QC Sample: L1822659-01 Client ID: DUP Sample						
Solids, Total	87.3	85.3	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1127702-3 QC Sample: L1822921-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1127708-3 QC Sample: L1822921-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822712
Report Date: 06/22/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822712-01A	Vial Large Septa unpreserved (4oz)	C	NA		4.5	Y	Absent		TCLP-EXT-ZHE(14)
L1822712-01B	Glass 120ml/4oz unpreserved	C	NA		4.5	Y	Absent		REACTS(14),HERB-APA(14),FLASH(),TS(7),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14)
L1822712-01C	Glass 250ml/8oz unpreserved	C	NA		4.5	Y	Absent		REACTS(14),HERB-APA(14),FLASH(),TS(7),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14)
L1822712-01T	Vial unpreserved Extracts	C	NA		4.5	Y	Absent		TCLP-VOA(14)
L1822712-01U	Vial unpreserved Extracts	C	NA		4.5	Y	Absent		TCLP-VOA(14)
L1822712-01W	Amber 1000ml unpreserved Extracts	C	NA		4.5	Y	Absent		TCLP-8270(14)
L1822712-01X	Plastic 120ml HNO3 preserved Extracts	C	NA		4.5	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1822712-01X9	Tumble Vessel	C	NA		4.5	Y	Absent		-
L1822712-02A	Vial Large Septa unpreserved (4oz)	C	NA		4.5	Y	Absent		TCLP-EXT-ZHE(14)
L1822712-02B	Glass 120ml/4oz unpreserved	C	NA		4.5	Y	Absent		REACTS(14),HERB-APA(14),FLASH(),TS(7),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14)
L1822712-02C	Glass 250ml/8oz unpreserved	C	NA		4.5	Y	Absent		REACTS(14),HERB-APA(14),FLASH(),TS(7),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14)
L1822712-02T	Vial unpreserved Extracts	C	NA		4.5	Y	Absent		TCLP-VOA(14)
L1822712-02U	Vial unpreserved Extracts	C	NA		4.5	Y	Absent		TCLP-VOA(14)
L1822712-02W	Amber 1000ml unpreserved Extracts	C	NA		4.5	Y	Absent		TCLP-8270(14)
L1822712-02X	Plastic 120ml HNO3 preserved Extracts	C	NA		4.5	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1822712-02X9	Tumble Vessel	C	NA		4.5	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1822712
Project Number:	0437-017-001	**Report Date:**	06/22/18

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:	1585 HERTEL AVE.	**Lab Number:**	L1822712
Project Number:	0437-017-001	**Report Date:**	06/22/18

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1822712
Project Number:	0437-017-001	**Report Date:**	06/22/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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: 6/16/18

ALPHA Job #: L1822712

Client Information

Client: Benchmark Env Eng
Address: 2558 Namans Circle
Buffalo, NY 14226
Phone: 716-856-0599
Fax:
Email:

Project Information

Project Name: 1585 Hertel Ave
Project Location: 1585 Hertel Ave
Project # 0437-017-009
(Use Project name as Project #) ☑
Project Manager: Chris Doron
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:

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	TCLP VOC	TCLP SVOC	TCLP metals	TCLP Pest, Herb, PCB	TCLP Reactivity	Flashpt	Total Bottle	Sample Specific Comments
22712-01	WASTE CHAR #1 SB-9	6/15/18	1100	S	TLD	✓	✓	✓	✓	✓	✓		
02	WASTE CHAR #2 SB-12		1130			✓	✓	✓	✓	✓	✓		
	~~WASTE CHAR #3 SB-15~~												
		↓		↓	↓								

Container Type: A A A A A A
Preservative: A A 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
Chris Doron	6/15/18 7:15	Audrey Tillyard	6/15/18 15:15
Audrey Tillyard	6/15/18 16:00	[illegible]	6/16/18 0915

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

ANALYTICAL REPORT

Lab Number:	L1822714
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001
Report Date:	06/27/18

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

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1822714-01	SB-9 0-3'	SOIL	1585 HERTEL AVE.	06/14/18 12:20	06/15/18
L1822714-02	SB-9 4-8'	SOIL	1585 HERTEL AVE.	06/14/18 12:40	06/15/18
L1822714-03	SB-10 0-0.5'	SOIL	1585 HERTEL AVE.	06/14/18 13:30	06/15/18
L1822714-04	SB-10 12-16'	SOIL	1585 HERTEL AVE.	06/14/18 13:40	06/15/18
L1822714-05	SB-11 0-0.5'	SOIL	1585 HERTEL AVE.	06/14/18 14:40	06/15/18
L1822714-06	SB-11 16-20'	SOIL	1585 HERTEL AVE.	06/14/18 15:00	06/15/18
L1822714-07	SB-12 0-4'	SOIL	1585 HERTEL AVE.	06/14/18 09:30	06/15/18
L1822714-08	SB-12 4-8'	SOIL	1585 HERTEL AVE.	06/14/18 09:40	06/15/18
L1822714-09	SB-13 0-1'	SOIL	1585 HERTEL AVE.	06/14/18 10:30	06/15/18
L1822714-10	SB-13 8-12'	SOIL	1585 HERTEL AVE.	06/14/18 10:40	06/15/18
L1822714-11	SB-14 0-0.5'	SOIL	1585 HERTEL AVE.	06/14/18 11:30	06/15/18
L1822714-12	SB-14 12-16'	SOIL	1585 HERTEL AVE.	06/14/18 11:40	06/15/18
L1822714-13	BLIND DUP	SOIL	1585 HERTEL AVE.	06/14/18 12:00	06/15/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Case Narrative

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

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

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

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

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

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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714
Project Number: 0437-017-001 **Report Date:** 06/27/18

Case Narrative (continued)

Report Submission

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

Sample Receipt

The analyses performed were specified by the client.

Semivolatile Organics

L1822714-05: The sample has elevated detection limits due to limited sample volume available for analysis.
L1822714-09: The sample has elevated detection limits due to the dilution required by the sample matrix.
L1822714-09: The surrogate recovery was outside the acceptance criteria for 2,4,6-tribromophenol (9%); however, re-extraction achieved similar results: 2,4,6-tribromophenol (0%) and 2-fluorophenol (24%). The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

Pesticides

L1822714-05: The sample has elevated detection limits due to the dilution required by the sample matrix.

Herbicides

The WG1129455-3 LCSD is not available due to an error during extraction. There is no more sample volume available for the sample, L1822714-05, associated with this batch. The original data is reported.

Total Metals

L1822714-01 through -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.
The WG1128502-3/-4 MS recoveries for aluminum (584%/327%), iron (4540%/0%), magnesium (238%/772%) and manganese (199%/178%), performed on L1822714-12, do not apply because the sample concentrations are greater than four times the spike amounts added.

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714
Project Number: 0437-017-001 **Report Date:** 06/27/18

Case Narrative (continued)

The WG1128502-3/-4 MS/MSD recoveries for calcium (530%/1590%), performed on L1822714-12, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1128502-3/-4 MS/MSD recoveries, performed on L1822714-12, are outside the acceptance criteria for selenium (65%/74%), cobalt (MSD at 74%) and thallium (69%/72%). A post digestion spike was performed and yielded an unacceptable recovery for selenium (65%). This has been attributed to sample matrix.
The WG1128502-3/-4 MS/MSD RPDs for arsenic (33%), copper (23%), iron (25%) and magnesium (24%), performed on L1822714-12, are above the acceptance criteria.

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

Authorized Signature: Amita Naik

Title: Technical Director/Representative Date: 06/27/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01 Date Collected: 06/14/18 12:20
Client ID: SB-9 0-3' Date Received: 06/15/18
Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 14:26
Analyst: MKS
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	340	160	1
1,1-Dichloroethane	ND		ug/kg	68	9.9	1
Chloroform	ND		ug/kg	100	9.6	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.6	1
Dibromochloromethane	ND		ug/kg	68	9.6	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	ND		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.7	1
Trichlorofluoromethane	ND		ug/kg	270	48.	1
1,2-Dichloroethane	ND		ug/kg	68	18.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.5	1
trans-1,3-Dichloropropene	ND		ug/kg	68	19.	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	18	J	ug/kg	34	11.	1
Toluene	ND		ug/kg	68	37.	1
Ethylbenzene	540		ug/kg	68	9.7	1
Chloromethane	ND		ug/kg	270	64.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	31.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.4	1
Trichloroethene	ND		ug/kg	34	9.4	1
1,2-Dichlorobenzene	ND		ug/kg	140	9.9	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01 Date Collected: 06/14/18 12:20

Client ID: SB-9 0-3' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	190		ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	68	12.	1
Styrene	ND		ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	63.	1
Acetone	ND		ug/kg	680	330	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	88.	1
2-Hexanone	ND		ug/kg	680	81.	1
Bromochloromethane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
n-Butylbenzene	940		ug/kg	68	11.	1
sec-Butylbenzene	260		ug/kg	68	10.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	68.	1
Isopropylbenzene	160		ug/kg	68	7.5	1
p-Isopropyltoluene	16	J	ug/kg	68	7.5	1
n-Propylbenzene	820		ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	19.	1
1,3,5-Trimethylbenzene	47	J	ug/kg	140	13.	1
1,2,4-Trimethylbenzene	290		ug/kg	140	23.	1
Methyl Acetate	220	J	ug/kg	270	65.	1
Cyclohexane	ND		ug/kg	680	37.	1
1,4-Dioxane	ND		ug/kg	6800	2400	1
Freon-113	ND		ug/kg	270	48.	1
Methyl cyclohexane	210	J	ug/kg	270	41.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01 Date Collected: 06/14/18 12:20

Client ID: SB-9 0-3' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	41800	J	ug/kg			1
Unknown Benzene	1620	J	ug/kg			1
Unknown Alkane	2320	J	ug/kg			1
Unknown Alkane	3250	J	ug/kg			1
Heptane, 3-methyl-	2460	NJ	ug/kg			1
Unknown Benzene	4480	J	ug/kg			1
Unknown	1600	J	ug/kg			1
Unknown Aromatic	1920	J	ug/kg			1
Octane, 3-methyl-	2610	NJ	ug/kg			1
Unknown	4150	J	ug/kg			1
Unknown Aromatic	1560	J	ug/kg			1
Unknown	5100	J	ug/kg			1
Unknown Aromatic	4750	J	ug/kg			1
Unknown Benzene	1410	J	ug/kg			1
Unknown Benzene	2350	J	ug/kg			1
Unknown	2260	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-02
Client ID: SB-9 4-8'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 12:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 21:09
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	0.25	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-02 Date Collected: 06/14/18 12:40

Client ID: SB-9 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	1.9	J	ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		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	0.97	1
Acetone	47		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	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	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	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
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
n-Propylbenzene	0.18	J	ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	0.45	J	ug/kg	2.1	0.36	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	11	0.58	1
1,4-Dioxane	ND		ug/kg	110	37.	1
Freon-113	ND		ug/kg	4.2	0.74	1
Methyl cyclohexane	ND		ug/kg	4.2	0.64	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-02 Date Collected: 06/14/18 12:40

Client ID: SB-9 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-03
Client ID: SB-10 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 13:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 21:36
Analyst: MV
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.3	3.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.24	1
Chloroform	0.32	J	ug/kg	2.5	0.23	1
Carbon tetrachloride	ND		ug/kg	1.6	0.38	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.21	1
Dibromochloromethane	ND		ug/kg	1.6	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.44	1
Tetrachloroethene	ND		ug/kg	0.83	0.32	1
Chlorobenzene	ND		ug/kg	0.83	0.21	1
Trichlorofluoromethane	ND		ug/kg	6.6	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.42	1
1,1,1-Trichloroethane	ND		ug/kg	0.83	0.28	1
Bromodichloromethane	ND		ug/kg	0.83	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.45	1
cis-1,3-Dichloropropene	ND		ug/kg	0.83	0.26	1
Bromoform	ND		ug/kg	6.6	0.41	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.83	0.27	1
Benzene	ND		ug/kg	0.83	0.27	1
Toluene	ND		ug/kg	1.6	0.90	1
Ethylbenzene	ND		ug/kg	1.6	0.23	1
Chloromethane	ND		ug/kg	6.6	1.5	1
Bromomethane	ND		ug/kg	3.3	0.96	1
Vinyl chloride	ND		ug/kg	1.6	0.55	1
Chloroethane	ND		ug/kg	3.3	0.75	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	0.23	1
Trichloroethene	ND		ug/kg	0.83	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	0.24	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-03 Date Collected: 06/14/18 13:30

Client ID: SB-10 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.3	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	3.3	0.28	1
Methyl tert butyl ether	ND		ug/kg	3.3	0.33	1
p/m-Xylene	ND		ug/kg	3.3	0.92	1
o-Xylene	ND		ug/kg	1.6	0.48	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.29	1
Styrene	ND		ug/kg	1.6	0.32	1
Dichlorodifluoromethane	ND		ug/kg	16	1.5	1
Acetone	ND		ug/kg	16	8.0	1
Carbon disulfide	ND		ug/kg	16	7.5	1
2-Butanone	ND		ug/kg	16	3.7	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.1	1
2-Hexanone	ND		ug/kg	16	2.0	1
Bromochloromethane	ND		ug/kg	3.3	0.34	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.46	1
n-Butylbenzene	ND		ug/kg	1.6	0.28	1
sec-Butylbenzene	ND		ug/kg	1.6	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	1.6	1
Isopropylbenzene	ND		ug/kg	1.6	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.18	1
n-Propylbenzene	ND		ug/kg	1.6	0.28	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.3	0.53	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.3	0.45	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.3	0.32	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.3	0.55	1
Methyl Acetate	ND		ug/kg	6.6	1.6	1
Cyclohexane	ND		ug/kg	16	0.90	1
1,4-Dioxane	ND		ug/kg	160	58.	1
Freon-113	ND		ug/kg	6.6	1.1	1
Methyl cyclohexane	ND		ug/kg	6.6	1.0	1

Tentatively Identified Compounds				
Total TIC Compounds	3.68	J	ug/kg	1
Unknown	3.68	J	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-03 Date Collected: 06/14/18 13:30

Client ID: SB-10 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04
Client ID: SB-10 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 13:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 22:04
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.86	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.86	0.11	1
Dibromochloromethane	ND		ug/kg	0.86	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.23	1
Tetrachloroethene	ND		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.47	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Chloromethane	ND		ug/kg	3.5	0.81	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	ND		ug/kg	0.86	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04 Date Collected: 06/14/18 13:40

Client ID: SB-10 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.86	0.15	1
Styrene	ND		ug/kg	0.86	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.79	1
Acetone	10		ug/kg	8.6	4.2	1
Carbon disulfide	ND		ug/kg	8.6	3.9	1
2-Butanone	ND		ug/kg	8.6	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	1.1	1
2-Hexanone	ND		ug/kg	8.6	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.86	0.24	1
n-Butylbenzene	ND		ug/kg	0.86	0.14	1
sec-Butylbenzene	ND		ug/kg	0.86	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.09	1
n-Propylbenzene	ND		ug/kg	0.86	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
Methyl Acetate	ND		ug/kg	3.5	0.82	1
Cyclohexane	ND		ug/kg	8.6	0.47	1
1,4-Dioxane	ND		ug/kg	86	30.	1
Freon-113	ND		ug/kg	3.5	0.60	1
Methyl cyclohexane	ND		ug/kg	3.5	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05
Client ID: SB-11 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 14:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 22:31
Analyst: MV
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05 Date Collected: 06/14/18 14:40

Client ID: SB-11 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
Methyl Acetate	ND		ug/kg	4.9	1.2	1
Cyclohexane	ND		ug/kg	12	0.66	1
1,4-Dioxane	ND		ug/kg	120	43.	1
Freon-113	ND		ug/kg	4.9	0.84	1
Methyl cyclohexane	ND		ug/kg	4.9	0.73	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	76		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06
Client ID: SB-11 16-20'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 15:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 22:59
Analyst: MV
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.2	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.72	0.28	1
Chlorobenzene	ND		ug/kg	0.72	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.7	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	0.24	1
Bromodichloromethane	ND		ug/kg	0.72	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	0.23	1
Bromoform	ND		ug/kg	5.7	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	0.24	1
Benzene	ND		ug/kg	0.72	0.24	1
Toluene	ND		ug/kg	1.4	0.78	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.7	1.3	1
Bromomethane	ND		ug/kg	2.9	0.84	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.9	0.65	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1
Trichloroethene	ND		ug/kg	0.72	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	0.21	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06 Date Collected: 06/14/18 15:00

Client ID: SB-11 16-20' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	0.24	1
Methyl tert butyl ether	2.8	J	ug/kg	2.9	0.29	1
p/m-Xylene	ND		ug/kg	2.9	0.80	1
o-Xylene	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	54		ug/kg	14	6.9	1
Carbon disulfide	ND		ug/kg	14	6.5	1
2-Butanone	5.6	J	ug/kg	14	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.9	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.16	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	0.39	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	0.48	1
Methyl Acetate	ND		ug/kg	5.7	1.4	1
Cyclohexane	ND		ug/kg	14	0.78	1
1,4-Dioxane	ND		ug/kg	140	50.	1
Freon-113	ND		ug/kg	5.7	1.0	1
Methyl cyclohexane	ND		ug/kg	5.7	0.87	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07
Client ID: SB-12 0-4'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 09:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 23:26
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.5	3.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.25	1
Chloroform	ND		ug/kg	2.6	0.24	1
Carbon tetrachloride	ND		ug/kg	1.7	0.39	1
1,2-Dichloropropane	ND		ug/kg	1.7	0.21	1
Dibromochloromethane	ND		ug/kg	1.7	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.46	1
Tetrachloroethene	0.59	J	ug/kg	0.85	0.33	1
Chlorobenzene	1.2		ug/kg	0.85	0.22	1
Trichlorofluoromethane	ND		ug/kg	6.8	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.44	1
1,1,1-Trichloroethane	ND		ug/kg	0.85	0.28	1
Bromodichloromethane	ND		ug/kg	0.85	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.46	1
cis-1,3-Dichloropropene	ND		ug/kg	0.85	0.27	1
Bromoform	ND		ug/kg	6.8	0.42	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.85	0.28	1
Benzene	ND		ug/kg	0.85	0.28	1
Toluene	2.0		ug/kg	1.7	0.93	1
Ethylbenzene	0.62	J	ug/kg	1.7	0.24	1
Chloromethane	ND		ug/kg	6.8	1.6	1
Bromomethane	ND		ug/kg	3.4	0.99	1
Vinyl chloride	ND		ug/kg	1.7	0.57	1
Chloroethane	ND		ug/kg	3.4	0.77	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.23	1
Trichloroethene	0.33	J	ug/kg	0.85	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	3.4	0.24	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07 Date Collected: 06/14/18 09:30

Client ID: SB-12 0-4' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.4	0.25	1
1,4-Dichlorobenzene	0.37	J	ug/kg	3.4	0.29	1
Methyl tert butyl ether	ND		ug/kg	3.4	0.34	1
p/m-Xylene	2.4	J	ug/kg	3.4	0.96	1
o-Xylene	1.0	J	ug/kg	1.7	0.50	1
cis-1,2-Dichloroethene	1.2	J	ug/kg	1.7	0.30	1
Styrene	ND		ug/kg	1.7	0.33	1
Dichlorodifluoromethane	ND		ug/kg	17	1.6	1
Acetone	32		ug/kg	17	8.2	1
Carbon disulfide	ND		ug/kg	17	7.8	1
2-Butanone	ND		ug/kg	17	3.8	1
4-Methyl-2-pentanone	ND		ug/kg	17	2.2	1
2-Hexanone	ND		ug/kg	17	2.0	1
Bromochloromethane	ND		ug/kg	3.4	0.35	1
1,2-Dibromoethane	ND		ug/kg	1.7	0.48	1
n-Butylbenzene	1.3	J	ug/kg	1.7	0.28	1
sec-Butylbenzene	0.54	J	ug/kg	1.7	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	1.7	1
Isopropylbenzene	0.28	J	ug/kg	1.7	0.18	1
p-Isopropyltoluene	0.41	J	ug/kg	1.7	0.18	1
n-Propylbenzene	0.90	J	ug/kg	1.7	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.4	0.55	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.4	0.46	1
1,3,5-Trimethylbenzene	2.0	J	ug/kg	3.4	0.33	1
1,2,4-Trimethylbenzene	4.5		ug/kg	3.4	0.57	1
Methyl Acetate	ND		ug/kg	6.8	1.6	1
Cyclohexane	ND		ug/kg	17	0.93	1
1,4-Dioxane	ND		ug/kg	170	60.	1
Freon-113	ND		ug/kg	6.8	1.2	1
Methyl cyclohexane	ND		ug/kg	6.8	1.0	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07 Date Collected: 06/14/18 09:30

Client ID: SB-12 0-4' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	275	J	ug/kg			1
Unknown Alkane	16.4	J	ug/kg			1
Unknown Alkane	25.3	J	ug/kg			1
Unknown	38.0	J	ug/kg			1
Unknown	18.5	J	ug/kg			1
Unknown Alkane	76.9	J	ug/kg			1
Unknown	13.8	J	ug/kg			1
Unknown	26.3	J	ug/kg			1
Unknown Alkane	23.5	J	ug/kg			1
Unknown	17.1	J	ug/kg			1
Unknown Benzene	19.5	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-08
Client ID: SB-12 4-8'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 09:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 23:54
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	3.6	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.22	1
Chloroform	ND		ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.19	1
Dibromochloromethane	ND		ug/kg	1.6	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.42	1
Tetrachloroethene	ND		ug/kg	0.78	0.30	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.2	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Bromodichloromethane	ND		ug/kg	0.78	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.42	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	0.24	1
Bromoform	ND		ug/kg	6.2	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	0.26	1
Benzene	0.50	J	ug/kg	0.78	0.26	1
Toluene	0.86	J	ug/kg	1.6	0.84	1
Ethylbenzene	0.59	J	ug/kg	1.6	0.22	1
Chloromethane	ND		ug/kg	6.2	1.4	1
Bromomethane	ND		ug/kg	3.1	0.90	1
Vinyl chloride	ND		ug/kg	1.6	0.52	1
Chloroethane	ND		ug/kg	3.1	0.70	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	0.30	J	ug/kg	3.1	0.22	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-08 Date Collected: 06/14/18 09:40

Client ID: SB-12 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	1.7	J	ug/kg	3.1	0.87	1
o-Xylene	0.68	J	ug/kg	1.6	0.45	1
cis-1,2-Dichloroethene	7.6		ug/kg	1.6	0.27	1
Styrene	ND		ug/kg	1.6	0.30	1
Dichlorodifluoromethane	ND		ug/kg	16	1.4	1
Acetone	63		ug/kg	16	7.5	1
Carbon disulfide	ND		ug/kg	16	7.1	1
2-Butanone	13	J	ug/kg	16	3.4	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.0	1
2-Hexanone	ND		ug/kg	16	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.32	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.43	1
n-Butylbenzene	0.93	J	ug/kg	1.6	0.26	1
sec-Butylbenzene	0.54	J	ug/kg	1.6	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	1.6	1
Isopropylbenzene	0.55	J	ug/kg	1.6	0.17	1
p-Isopropyltoluene	0.41	J	ug/kg	1.6	0.17	1
n-Propylbenzene	1.6		ug/kg	1.6	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.50	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.42	1
1,3,5-Trimethylbenzene	1.8	J	ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	4.8		ug/kg	3.1	0.52	1
Methyl Acetate	ND		ug/kg	6.2	1.5	1
Cyclohexane	0.97	J	ug/kg	16	0.85	1
1,4-Dioxane	ND		ug/kg	160	55.	1
Freon-113	ND		ug/kg	6.2	1.1	1
Methyl cyclohexane	ND		ug/kg	6.2	0.94	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09
Client ID: SB-13 0-1'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 10:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/22/18 00:21
Analyst: MV
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.8	4.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.28	1
Chloroform	ND		ug/kg	2.9	0.27	1
Carbon tetrachloride	ND		ug/kg	2.0	0.45	1
1,2-Dichloropropane	ND		ug/kg	2.0	0.24	1
Dibromochloromethane	ND		ug/kg	2.0	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.52	1
Tetrachloroethene	ND		ug/kg	0.98	0.38	1
Chlorobenzene	ND		ug/kg	0.98	0.25	1
Trichlorofluoromethane	ND		ug/kg	7.8	1.4	1
1,2-Dichloroethane	ND		ug/kg	2.0	0.50	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.32	1
Bromodichloromethane	ND		ug/kg	0.98	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	0.53	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.31	1
Bromoform	ND		ug/kg	7.8	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.32	1
Benzene	ND		ug/kg	0.98	0.32	1
Toluene	ND		ug/kg	2.0	1.0	1
Ethylbenzene	ND		ug/kg	2.0	0.27	1
Chloromethane	ND		ug/kg	7.8	1.8	1
Bromomethane	ND		ug/kg	3.9	1.1	1
Vinyl chloride	ND		ug/kg	2.0	0.65	1
Chloroethane	ND		ug/kg	3.9	0.88	1
1,1-Dichloroethene	ND		ug/kg	2.0	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	2.9	0.27	1
Trichloroethene	0.37	J	ug/kg	0.98	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	3.9	0.28	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09 Date Collected: 06/14/18 10:30

Client ID: SB-13 0-1' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.9	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	3.9	0.33	1
Methyl tert butyl ether	ND		ug/kg	3.9	0.39	1
p/m-Xylene	ND		ug/kg	3.9	1.1	1
o-Xylene	ND		ug/kg	2.0	0.57	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	0.34	1
Styrene	ND		ug/kg	2.0	0.38	1
Dichlorodifluoromethane	ND		ug/kg	20	1.8	1
Acetone	120		ug/kg	20	9.4	1
Carbon disulfide	ND		ug/kg	20	8.9	1
2-Butanone	18	J	ug/kg	20	4.3	1
4-Methyl-2-pentanone	ND		ug/kg	20	2.5	1
2-Hexanone	ND		ug/kg	20	2.3	1
Bromochloromethane	ND		ug/kg	3.9	0.40	1
1,2-Dibromoethane	ND		ug/kg	2.0	0.54	1
n-Butylbenzene	ND		ug/kg	2.0	0.32	1
sec-Butylbenzene	ND		ug/kg	2.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	1.9	1
Isopropylbenzene	ND		ug/kg	2.0	0.21	1
p-Isopropyltoluene	ND		ug/kg	2.0	0.21	1
n-Propylbenzene	ND		ug/kg	2.0	0.33	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.9	0.63	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.9	0.53	1
1,3,5-Trimethylbenzene	0.43	J	ug/kg	3.9	0.38	1
1,2,4-Trimethylbenzene	0.92	J	ug/kg	3.9	0.65	1
Methyl Acetate	ND		ug/kg	7.8	1.8	1
Cyclohexane	ND		ug/kg	20	1.1	1
1,4-Dioxane	ND		ug/kg	200	68.	1
Freon-113	ND		ug/kg	7.8	1.4	1
Methyl cyclohexane	ND		ug/kg	7.8	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	103		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10
Client ID: SB-13 8-12'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/22/18 00:21
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	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	0.56	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	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10 Date Collected: 06/14/18 10:40

Client ID: SB-13 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	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
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	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	110	40.	1
Freon-113	ND		ug/kg	4.5	0.78	1
Methyl cyclohexane	ND		ug/kg	4.5	0.68	1

Tentatively Identified Compounds				
Total TIC Compounds	6.69	J	ug/kg	1
Unknown	4.37	J	ug/kg	1
Unknown	2.32	J	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10 Date Collected: 06/14/18 10:40

Client ID: SB-13 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	94		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-11
Client ID: SB-14 0-0.5'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/22/18 00:47
Analyst: MV
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	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	3.8	0.66	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	3.8	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	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.94	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	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	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-11 Date Collected: 06/14/18 11:30

Client ID: SB-14 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.53	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	20		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	3.1	J	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
Bromochloromethane	ND		ug/kg	1.9	0.19	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
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
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	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	3.8	0.90	1
Cyclohexane	ND		ug/kg	9.4	0.51	1
1,4-Dioxane	ND		ug/kg	94	33.	1
Freon-113	ND		ug/kg	3.8	0.65	1
Methyl cyclohexane	ND		ug/kg	3.8	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	95		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12
Client ID: SB-14 12-16'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 11:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/22/18 01:12
Analyst: MV
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.91	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	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	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	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12 Date Collected: 06/14/18 11:40

Client ID: SB-14 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	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	6.3	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
Bromochloromethane	ND		ug/kg	2.6	0.27	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
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	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
1,4-Dioxane	ND		ug/kg	130	46.	1
Freon-113	ND		ug/kg	5.3	0.91	1
Methyl cyclohexane	ND		ug/kg	5.3	0.79	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	94		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13
Client ID: BLIND DUP
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/22/18 01:38
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.0	4.1	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.26	1
Chloroform	ND		ug/kg	2.7	0.25	1
Carbon tetrachloride	ND		ug/kg	1.8	0.41	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.22	1
Dibromochloromethane	ND		ug/kg	1.8	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.48	1
Tetrachloroethene	ND		ug/kg	0.90	0.35	1
Chlorobenzene	ND		ug/kg	0.90	0.23	1
Trichlorofluoromethane	ND		ug/kg	7.2	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.46	1
1,1,1-Trichloroethane	ND		ug/kg	0.90	0.30	1
Bromodichloromethane	ND		ug/kg	0.90	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.49	1
cis-1,3-Dichloropropene	ND		ug/kg	0.90	0.28	1
Bromoform	ND		ug/kg	7.2	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.90	0.30	1
Benzene	ND		ug/kg	0.90	0.30	1
Toluene	ND		ug/kg	1.8	0.98	1
Ethylbenzene	ND		ug/kg	1.8	0.25	1
Chloromethane	ND		ug/kg	7.2	1.7	1
Bromomethane	ND		ug/kg	3.6	1.0	1
Vinyl chloride	ND		ug/kg	1.8	0.60	1
Chloroethane	ND		ug/kg	3.6	0.81	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.43	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.25	1
Trichloroethene	ND		ug/kg	0.90	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	0.26	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13 Date Collected: 06/14/18 12:00

Client ID: BLIND DUP Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.6	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	0.31	1
Methyl tert butyl ether	ND		ug/kg	3.6	0.36	1
p/m-Xylene	ND		ug/kg	3.6	1.0	1
o-Xylene	ND		ug/kg	1.8	0.52	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.31	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	18	1.6	1
Acetone	ND		ug/kg	18	8.6	1
Carbon disulfide	ND		ug/kg	18	8.2	1
2-Butanone	ND		ug/kg	18	4.0	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.3	1
2-Hexanone	ND		ug/kg	18	2.1	1
Bromochloromethane	ND		ug/kg	3.6	0.37	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.50	1
n-Butylbenzene	ND		ug/kg	1.8	0.30	1
sec-Butylbenzene	ND		ug/kg	1.8	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	1.8	1
Isopropylbenzene	ND		ug/kg	1.8	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.20	1
n-Propylbenzene	ND		ug/kg	1.8	0.31	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.6	0.58	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.6	0.49	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.6	0.35	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.6	0.60	1
Methyl Acetate	ND		ug/kg	7.2	1.7	1
Cyclohexane	ND		ug/kg	18	0.98	1
1,4-Dioxane	ND		ug/kg	180	63.	1
Freon-113	ND		ug/kg	7.2	1.2	1
Methyl cyclohexane	ND		ug/kg	7.2	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	94		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 08:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1128365-5					
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	35	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: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 08:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1128365-5					
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.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
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
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
1,4-Dioxane	ND		ug/kg	5000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 08:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1128365-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 16:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-09 Batch: WG1128700-5					
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	1.2	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: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 16:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-09 Batch: WG1128700-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 16:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-09 Batch: WG1128700-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	70		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 20:05
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 10-13 Batch: WG1128744-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 20:05
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 10-13 Batch: WG1128744-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 20:05
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 10-13 Batch: WG1128744-5					
Tentatively Identified Compounds					
Total TIC Compounds	7.49	J	ug/kg		
Unknown	5.08	J	ug/kg		
Unknown	2.41	J	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1128365-3 WG1128365-4								
Methylene chloride	90		91		70-130	1		30
1,1-Dichloroethane	92		92		70-130	0		30
Chloroform	90		90		70-130	0		30
Carbon tetrachloride	94		95		70-130	1		30
1,2-Dichloropropane	90		93		70-130	3		30
Dibromochloromethane	88		92		70-130	4		30
1,1,2-Trichloroethane	91		92		70-130	1		30
Tetrachloroethene	94		93		70-130	1		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	93		95		70-139	2		30
1,2-Dichloroethane	90		95		70-130	5		30
1,1,1-Trichloroethane	94		94		70-130	0		30
Bromodichloromethane	90		93		70-130	3		30
trans-1,3-Dichloropropene	91		94		70-130	3		30
cis-1,3-Dichloropropene	93		96		70-130	3		30
Bromoform	89		93		70-130	4		30
1,1,2,2-Tetrachloroethane	91		94		70-130	3		30
Benzene	90		91		70-130	1		30
Toluene	92		90		70-130	2		30
Ethylbenzene	93		92		70-130	1		30
Chloromethane	95		94		52-130	1		30
Bromomethane	81		83		57-147	2		30
Vinyl chloride	95		94		67-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1128365-3 WG1128365-4								
Chloroethane	94		96		50-151	2		30
1,1-Dichloroethene	93		92		65-135	1		30
trans-1,2-Dichloroethene	92		91		70-130	1		30
Trichloroethene	93		94		70-130	1		30
1,2-Dichlorobenzene	91		91		70-130	0		30
1,3-Dichlorobenzene	92		91		70-130	1		30
1,4-Dichlorobenzene	91		91		70-130	0		30
Methyl tert butyl ether	90		96		66-130	6		30
p/m-Xylene	94		93		70-130	1		30
o-Xylene	94		92		70-130	2		30
cis-1,2-Dichloroethene	91		91		70-130	0		30
Styrene	93		93		70-130	0		30
Dichlorodifluoromethane	98		95		30-146	3		30
Acetone	97		100		54-140	3		30
Carbon disulfide	87		87		59-130	0		30
2-Butanone	91		100		70-130	9		30
4-Methyl-2-pentanone	89		98		70-130	10		30
2-Hexanone	85		94		70-130	10		30
Bromochloromethane	92		96		70-130	4		30
1,2-Dibromoethane	90		96		70-130	6		30
n-Butylbenzene	96		93		70-130	3		30
sec-Butylbenzene	94		93		70-130	1		30
1,2-Dibromo-3-chloropropane	84		96		68-130	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1128365-3 WG1128365-4								
Isopropylbenzene	94		92		70-130	2		30
p-Isopropyltoluene	94		93		70-130	1		30
n-Propylbenzene	94		92		70-130	2		30
1,2,3-Trichlorobenzene	90		93		70-130	3		30
1,2,4-Trichlorobenzene	92		93		70-130	1		30
1,3,5-Trimethylbenzene	93		92		70-130	1		30
1,2,4-Trimethylbenzene	93		92		70-130	1		30
Methyl Acetate	89		98		51-146	10		30
Cyclohexane	98		97		59-142	1		30
1,4-Dioxane	86		96		65-136	11		30
Freon-113	98		97		50-139	1		30
Methyl cyclohexane	95		95		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		99		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-09 Batch: WG1128700-3 WG1128700-4								
Methylene chloride	96		98		70-130	2		30
1,1-Dichloroethane	105		106		70-130	1		30
Chloroform	106		109		70-130	3		30
Carbon tetrachloride	116		115		70-130	1		30
1,2-Dichloropropane	102		103		70-130	1		30
Dibromochloromethane	94		102		70-130	8		30
1,1,2-Trichloroethane	93		102		70-130	9		30
Tetrachloroethene	101		110		70-130	9		30
Chlorobenzene	104		103		70-130	1		30
Trichlorofluoromethane	123		120		70-139	2		30
1,2-Dichloroethane	99		101		70-130	2		30
1,1,1-Trichloroethane	114		114		70-130	0		30
Bromodichloromethane	105		107		70-130	2		30
trans-1,3-Dichloropropene	95		105		70-130	10		30
cis-1,3-Dichloropropene	109		109		70-130	0		30
Bromoform	102		103		70-130	1		30
1,1,2,2-Tetrachloroethane	99		103		70-130	4		30
Benzene	105		105		70-130	0		30
Toluene	88		105		70-130	18		30
Ethylbenzene	108		108		70-130	0		30
Chloromethane	86		63		52-130	**31**	Q	30
Bromomethane	105		87		57-147	19		30
Vinyl chloride	111		108		67-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-09 Batch: WG1128700-3 WG1128700-4								
Chloroethane	103		99		50-151	4		30
1,1-Dichloroethene	86		71		65-135	19		30
trans-1,2-Dichloroethene	111		111		70-130	0		30
Trichloroethene	110		108		70-130	2		30
1,2-Dichlorobenzene	99		100		70-130	1		30
1,3-Dichlorobenzene	104		104		70-130	0		30
1,4-Dichlorobenzene	100		101		70-130	1		30
Methyl tert butyl ether	99		99		66-130	0		30
p/m-Xylene	99		108		70-130	9		30
o-Xylene	91		106		70-130	15		30
cis-1,2-Dichloroethene	104		106		70-130	2		30
Styrene	88		105		70-130	18		30
Dichlorodifluoromethane	99		98		30-146	1		30
Acetone	106		104		54-140	2		30
Carbon disulfide	72		64		59-130	12		30
2-Butanone	86		90		70-130	5		30
4-Methyl-2-pentanone	94		98		70-130	4		30
2-Hexanone	108		96		70-130	12		30
Bromochloromethane	106		102		70-130	4		30
1,2-Dibromoethane	101		102		70-130	1		30
n-Butylbenzene	110		114		70-130	4		30
sec-Butylbenzene	110		111		70-130	1		30
1,2-Dibromo-3-chloropropane	105		94		68-130	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-09 Batch: WG1128700-3 WG1128700-4								
Isopropylbenzene	109		112		70-130	3		30
p-Isopropyltoluene	110		110		70-130	0		30
n-Propylbenzene	110		110		70-130	0		30
1,2,3-Trichlorobenzene	119		99		70-130	18		30
1,2,4-Trichlorobenzene	**147**	Q	100		70-130	**38**	Q	30
1,3,5-Trimethylbenzene	107		109		70-130	2		30
1,2,4-Trimethylbenzene	106		108		70-130	2		30
Methyl Acetate	88		90		51-146	2		30
Cyclohexane	117		118		59-142	1		30
1,4-Dioxane	88		90		65-136	2		30
Freon-113	86		78		50-139	10		30
Methyl cyclohexane	114		114		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	82		99		70-130
4-Bromofluorobenzene	100		102		70-130
Dibromofluoromethane	99		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10-13 Batch: WG1128744-3 WG1128744-4								
Methylene chloride	103		102		70-130	1		30
1,1-Dichloroethane	108		107		70-130	1		30
Chloroform	105		103		70-130	2		30
Carbon tetrachloride	107		104		70-130	3		30
1,2-Dichloropropane	106		105		70-130	1		30
Dibromochloromethane	89		88		70-130	1		30
1,1,2-Trichloroethane	93		93		70-130	0		30
Tetrachloroethene	94		90		70-130	4		30
Chlorobenzene	93		91		70-130	2		30
Trichlorofluoromethane	111		117		70-139	5		30
1,2-Dichloroethane	105		104		70-130	1		30
1,1,1-Trichloroethane	108		107		70-130	1		30
Bromodichloromethane	102		102		70-130	0		30
trans-1,3-Dichloropropene	94		92		70-130	2		30
cis-1,3-Dichloropropene	104		102		70-130	2		30
Bromoform	81		81		70-130	0		30
1,1,2,2-Tetrachloroethane	86		87		70-130	1		30
Benzene	103		102		70-130	1		30
Toluene	93		91		70-130	2		30
Ethylbenzene	97		94		70-130	3		30
Chloromethane	102		99		52-130	3		30
Bromomethane	116		116		57-147	0		30
Vinyl chloride	115		111		67-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10-13 Batch: WG1128744-3 WG1128744-4								
Chloroethane	118		115		50-151	3		30
1,1-Dichloroethene	106		105		65-135	1		30
trans-1,2-Dichloroethene	106		102		70-130	4		30
Trichloroethene	105		102		70-130	3		30
1,2-Dichlorobenzene	87		87		70-130	0		30
1,3-Dichlorobenzene	89		88		70-130	1		30
1,4-Dichlorobenzene	88		88		70-130	0		30
Methyl tert butyl ether	101		100		66-130	1		30
p/m-Xylene	96		93		70-130	3		30
o-Xylene	96		93		70-130	3		30
cis-1,2-Dichloroethene	103		102		70-130	1		30
Styrene	96		93		70-130	3		30
Dichlorodifluoromethane	92		90		30-146	2		30
Acetone	109		107		54-140	2		30
Carbon disulfide	101		100		59-130	1		30
2-Butanone	97		96		70-130	1		30
4-Methyl-2-pentanone	90		89		70-130	1		30
2-Hexanone	83		83		70-130	0		30
Bromochloromethane	100		100		70-130	0		30
1,2-Dibromoethane	90		90		70-130	0		30
n-Butylbenzene	96		95		70-130	1		30
sec-Butylbenzene	94		93		70-130	1		30
1,2-Dibromo-3-chloropropane	74		77		68-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10-13 Batch: WG1128744-3 WG1128744-4								
Isopropylbenzene	92		91		70-130	1		30
p-Isopropyltoluene	92		91		70-130	1		30
n-Propylbenzene	94		93		70-130	1		30
1,2,3-Trichlorobenzene	84		84		70-130	0		30
1,2,4-Trichlorobenzene	86		85		70-130	1		30
1,3,5-Trimethylbenzene	92		91		70-130	1		30
1,2,4-Trimethylbenzene	91		90		70-130	1		30
Methyl Acetate	95		99		51-146	4		30
Cyclohexane	109		107		59-142	2		30
1,4-Dioxane	90		91		65-136	1		30
Freon-113	110		108		50-139	2		30
Methyl cyclohexane	107		105		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		101		70-130
Toluene-d8	95		96		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	100		100		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10-13 QC Batch ID: WG1128744-6 WG1128744-7 QC Sample: L1822714-12 Client ID: SB-14 12-16'												
Methylene chloride	ND	144	160	107		81	85		70-130	**62**	Q	30
1,1-Dichloroethane	ND	144	160	114		87	91		70-130	**61**	Q	30
Chloroform	ND	144	150	103		78	82		70-130	**62**	Q	30
Carbon tetrachloride	ND	144	150	106		82	85		70-130	**61**	Q	30
1,2-Dichloropropane	ND	144	150	105		78	82		70-130	**64**	Q	30
Dibromochloromethane	ND	144	140	93		68	72		70-130	**65**	Q	30
1,1,2-Trichloroethane	ND	144	150	104		76	79		70-130	**66**	Q	30
Tetrachloroethene	ND	144	100	71		54	**57**	Q	70-130	**61**	Q	30
Chlorobenzene	ND	144	100	72		53	**55**	Q	70-130	**66**	Q	30
Trichlorofluoromethane	ND	144	200	**141**	Q	110	114		70-139	**61**	Q	30
1,2-Dichloroethane	ND	144	150	101		76	79		70-130	**63**	Q	30
1,1,1-Trichloroethane	ND	144	160	110		85	89		70-130	**61**	Q	30
Bromodichloromethane	ND	144	140	97		72	75		70-130	**65**	Q	30
trans-1,3-Dichloropropene	ND	144	130	91		65	**68**	Q	70-130	**67**	Q	30
cis-1,3-Dichloropropene	ND	144	130	89		65	**68**	Q	70-130	**65**	Q	30
Bromoform	ND	144	130	91		64	**67**	Q	70-130	**68**	Q	30
1,1,2,2-Tetrachloroethane	ND	144	140	96		67	70		70-130	**70**	Q	30
Benzene	ND	144	140	99		75	79		70-130	**62**	Q	30
Toluene	ND	144	130	87		66	**69**	Q	70-130	**63**	Q	30
Ethylbenzene	ND	144	110	74		54	**57**	Q	70-130	**65**	Q	30
Chloromethane	ND	144	170	116		89	93		52-130	**61**	Q	30
Bromomethane	ND	144	180	127		100	107		57-147	**57**	Q	30
Vinyl chloride	ND	144	200	**136**	Q	100	109		67-130	**61**	Q	30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10-13 QC Batch ID: WG1128744-6 WG1128744-7 QC Sample: L1822714-12 Client ID: SB-14 12-16'												
Chloroethane	ND	144	200	140		110	112		50-151	**62**	Q	30
1,1-Dichloroethene	ND	144	160	114		88	92		65-135	**60**	Q	30
trans-1,2-Dichloroethene	ND	144	150	102		77	81		70-130	**62**	Q	30
Trichloroethene	ND	144	130	93		71	74		70-130	**62**	Q	30
1,2-Dichlorobenzene	ND	144	74	**51**	Q	33	**34**	Q	70-130	**77**	Q	30
1,3-Dichlorobenzene	ND	144	67	**46**	Q	31	**32**	Q	70-130	**75**	Q	30
1,4-Dichlorobenzene	ND	144	65	**45**	Q	30	**32**	Q	70-130	**74**	Q	30
Methyl tert butyl ether	ND	144	160	107		78	82		66-130	**66**	Q	30
p/m-Xylene	ND	289	200	**69**	Q	100	**52**	Q	70-130	**66**	Q	30
o-Xylene	ND	289	210	73		100	**54**	Q	70-130	**68**	Q	30
cis-1,2-Dichloroethene	ND	144	140	98		74	78		70-130	**62**	Q	30
Styrene	ND	289	210	72		100	**52**	Q	70-130	**70**	Q	30
Dichlorodifluoromethane	ND	144	150	106		84	87		30-146	**59**	Q	30
Acetone	ND	144	160	114		92	97		54-140	**56**	Q	30
Carbon disulfide	ND	144	150	101		78	82		59-130	**60**	Q	30
2-Butanone	ND	144	140	99		71	74		70-130	**67**	Q	30
4-Methyl-2-pentanone	ND	144	170	115		82	86		70-130	**67**	Q	30
2-Hexanone	ND	144	150	101		70	73		70-130	**70**	Q	30
Bromochloromethane	ND	144	140	97		73	76		70-130	**63**	Q	30
1,2-Dibromoethane	ND	144	130	93		67	70		70-130	**67**	Q	30
n-Butylbenzene	ND	144	52	**36**	Q	23	**24**	Q	70-130	**76**	Q	30
sec-Butylbenzene	ND	144	75	**52**	Q	35	**37**	Q	70-130	**73**	Q	30
1,2-Dibromo-3-chloropropane	ND	144	120	81		53	**55**	Q	68-130	**75**	Q	30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10-13 QC Batch ID: WG1128744-6 WG1128744-7 QC Sample: L1822714-12 Client ID: SB-14 12-16'												
Isopropylbenzene	ND	144	100	**69**	Q	50	**52**	Q	70-130	**66**	Q	30
p-Isopropyltoluene	ND	144	65	**45**	Q	30	**32**	Q	70-130	**73**	Q	30
n-Propylbenzene	ND	144	83	**57**	Q	41	**42**	Q	70-130	**68**	Q	30
1,2,3-Trichlorobenzene	ND	144	46	**32**	Q	16	**17**	Q	70-130	**94**	Q	30
1,2,4-Trichlorobenzene	ND	144	42	**29**	Q	16	**17**	Q	70-130	**90**	Q	30
1,3,5-Trimethylbenzene	ND	144	82	**57**	Q	40	**41**	Q	70-130	**70**	Q	30
1,2,4-Trimethylbenzene	ND	144	77	**53**	Q	36	**38**	Q	70-130	**72**	Q	30
Methyl Acetate	ND	144	200	136		99	103		51-146	**66**	Q	30
Cyclohexane	ND	144	170	114		87	91		59-142	**62**	Q	30
1,4-Dioxane	ND	7220	6700	93		3300	70		65-136	**68**	Q	30
Freon-113	ND	144	160	112		90	94		50-139	**57**	Q	30
Methyl cyclohexane	ND	144	130	91		70	73		70-130	**62**	Q	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		110		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	96		96		70-130
Toluene-d8	104		105		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01
Client ID: SB-9 0-3'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:20
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 03:36
Analyst: SZ
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:45

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	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	32.	1
Fluoranthene	ND		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	220	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	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	1300		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	21	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01 Date Collected: 06/14/18 12:20

Client ID: SB-9 0-3' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	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	1200		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	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	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	51.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01 Date Collected: 06/14/18 12:20

Client ID: SB-9 0-3' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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
Tentatively Identified Compounds						
Total TIC Compounds	9510	J	ug/kg			1
Unknown Benzene	1020	J	ug/kg			1
Unknown	1040	J	ug/kg			1
Unknown Benzene	500	J	ug/kg			1
Indane	915	NJ	ug/kg			1
Unknown	344	J	ug/kg			1
Unknown	996	J	ug/kg			1
Unknown	284	J	ug/kg			1
Ethylbenzene	921	NJ	ug/kg			1
Unknown Benzene	422	J	ug/kg			1
Unknown	293	J	ug/kg			1
Unknown Benzene	519	J	ug/kg			1
Benzene, Propyl-	886	NJ	ug/kg			1
Unknown	682	J	ug/kg			1
Unknown Naphthalene	307	J	ug/kg			1
Unknown	385	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	53		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-02
Client ID: SB-9 4-8'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 02:45
Analyst: SZ
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:45

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	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		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	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	51	J	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	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	ND		ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-02 Date Collected: 06/14/18 12:40

Client ID: SB-9 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	31.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		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	27.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	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	ND		ug/kg	190	18.	1
2-Methylnaphthalene	260		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	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	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	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	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	ND		ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	52.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-02 Date Collected: 06/14/18 12:40

Client ID: SB-9 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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
Tentatively Identified Compounds						
Total TIC Compounds	1120	J	ug/kg			1
Benzene, Propyl-	169	NJ	ug/kg			1
Cyclic Octaatomic Sulfur	946	NJ	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	47		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-03
Client ID: SB-10 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 13:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 18:03
Analyst: ALS
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	2600		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	140	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	67	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	95	J	ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	460		ug/kg	100	19.	1
Benzo(a)pyrene	290		ug/kg	140	41.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-03 Date Collected: 06/14/18 13:30

Client ID: SB-10 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	630		ug/kg	100	28.	1
Benzo(k)fluoranthene	200		ug/kg	100	27.	1
Chrysene	750		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	270		ug/kg	100	33.	1
Benzo(ghi)perylene	200		ug/kg	140	20.	1
Fluorene	120	J	ug/kg	170	16.	1
Phenanthrene	2000		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	53	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	220		ug/kg	140	24.	1
Pyrene	1800		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	100	J	ug/kg	170	16.	1
2-Methylnaphthalene	130	J	ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	360	64.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	810	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Carbazole	250		ug/kg	170	16.	1
Atrazine	ND		ug/kg	140	59.	1
Benzaldehyde	ND		ug/kg	220	46.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-03 Date Collected: 06/14/18 13:30

Client ID: SB-10 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1
Tentatively Identified Compounds						
Total TIC Compounds	2060	J	ug/kg			1
Unknown Alkane	147	J	ug/kg			1
Unknown Ketone	546	J	ug/kg			1
Unknown PAH	148	J	ug/kg			1
Unknown PAH	187	J	ug/kg			1
Unknown Benzene	155	J	ug/kg			1
Unknown Alkane	195	J	ug/kg			1
Unknown	175	J	ug/kg			1
Unknown	209	J	ug/kg			1
Unknown Thiophene	137	J	ug/kg			1
Unknown PAH	156	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	50		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04
Client ID: SB-10 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 13:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 01:29
Analyst: SZ
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

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	32.	1
Fluoranthene	ND		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	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		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	48.	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	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04 Date Collected: 06/14/18 13:40

Client ID: SB-10 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	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	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	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	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: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04 Date Collected: 06/14/18 13:40

Client ID: SB-10 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	66		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05
Client ID: SB-11 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 14:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/21/18 01:12
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	460	60.	1
Hexachlorobenzene	ND		ug/kg	350	65.	1
Bis(2-chloroethyl)ether	ND		ug/kg	520	78.	1
2-Chloronaphthalene	ND		ug/kg	580	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	580	150	1
2,4-Dinitrotoluene	ND		ug/kg	580	120	1
2,6-Dinitrotoluene	ND		ug/kg	580	99.	1
Fluoranthene	1400		ug/kg	350	66.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	580	62.	1
4-Bromophenyl phenyl ether	ND		ug/kg	580	88.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	690	98.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	620	58.	1
Hexachlorobutadiene	ND		ug/kg	580	84.	1
Hexachlorocyclopentadiene	ND		ug/kg	1600	520	1
Hexachloroethane	ND		ug/kg	460	93.	1
Isophorone	ND		ug/kg	520	75.	1
Naphthalene	ND		ug/kg	580	70.	1
Nitrobenzene	ND		ug/kg	520	85.	1
NDPA/DPA	ND		ug/kg	460	66.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	580	89.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	580	200	1
Butyl benzyl phthalate	ND		ug/kg	580	140	1
Di-n-butylphthalate	ND		ug/kg	580	110	1
Di-n-octylphthalate	ND		ug/kg	580	200	1
Diethyl phthalate	ND		ug/kg	580	53.	1
Dimethyl phthalate	ND		ug/kg	580	120	1
Benzo(a)anthracene	440		ug/kg	350	65.	1
Benzo(a)pyrene	390	J	ug/kg	460	140	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05 Date Collected: 06/14/18 14:40

Client ID: SB-11 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	680		ug/kg	350	97.	1
Benzo(k)fluoranthene	220	J	ug/kg	350	92.	1
Chrysene	570		ug/kg	350	60.	1
Acenaphthylene	ND		ug/kg	460	89.	1
Anthracene	ND		ug/kg	350	110	1
Benzo(ghi)perylene	430	J	ug/kg	460	68.	1
Fluorene	ND		ug/kg	580	56.	1
Phenanthrene	470		ug/kg	350	70.	1
Dibenzo(a,h)anthracene	72	J	ug/kg	350	67.	1
Indeno(1,2,3-cd)pyrene	330	J	ug/kg	460	80.	1
Pyrene	1400		ug/kg	350	57.	1
Biphenyl	ND		ug/kg	1300	130	1
4-Chloroaniline	ND		ug/kg	580	100	1
2-Nitroaniline	ND		ug/kg	580	110	1
3-Nitroaniline	ND		ug/kg	580	110	1
4-Nitroaniline	ND		ug/kg	580	240	1
Dibenzofuran	ND		ug/kg	580	54.	1
2-Methylnaphthalene	ND		ug/kg	690	70.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	580	60.	1
Acetophenone	ND		ug/kg	580	71.	1
2,4,6-Trichlorophenol	ND		ug/kg	350	110	1
p-Chloro-m-cresol	ND		ug/kg	580	86.	1
2-Chlorophenol	ND		ug/kg	580	68.	1
2,4-Dichlorophenol	ND		ug/kg	520	93.	1
2,4-Dimethylphenol	ND		ug/kg	580	190	1
2-Nitrophenol	ND		ug/kg	1200	220	1
4-Nitrophenol	ND		ug/kg	810	240	1
2,4-Dinitrophenol	ND		ug/kg	2800	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	1500	280	1
Pentachlorophenol	ND		ug/kg	460	130	1
Phenol	ND		ug/kg	580	87.	1
2-Methylphenol	ND		ug/kg	580	89.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	830	90.	1
2,4,5-Trichlorophenol	ND		ug/kg	580	110	1
Carbazole	100	J	ug/kg	580	56.	1
Atrazine	ND		ug/kg	460	200	1
Benzaldehyde	ND		ug/kg	760	160	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05 Date Collected: 06/14/18 14:40

Client ID: SB-11 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	580	180	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	580	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	69		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06
Client ID: SB-11 16-20'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 15:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/21/18 01:38
Analyst: EK
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

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	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	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	26	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	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	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	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	35.	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	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06 Date Collected: 06/14/18 15:00

Client ID: SB-11 16-20' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	29.	1
Chrysene	20	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	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	ND		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	26	J	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	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	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	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	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	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	64.	1
Benzaldehyde	ND		ug/kg	240	49.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06 Date Collected: 06/14/18 15:00

Client ID: SB-11 16-20' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	68		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	54		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07
Client ID: SB-12 0-4'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 09:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 02:20
Analyst: SZ
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

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	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		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	ND		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	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07 Date Collected: 06/14/18 09:30

Client ID: SB-12 0-4' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		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	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		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	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	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	51.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07 Date Collected: 06/14/18 09:30

Client ID: SB-12 0-4' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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
Tentatively Identified Compounds						
Total TIC Compounds	177	J	ug/kg			1
Cyclic Octaatomic Sulfur	177	NJ	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	65		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-08
Client ID: SB-12 4-8'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 09:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 04:26
Analyst: SZ
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

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	32.	1
Fluoranthene	ND		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	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	27	J	ug/kg	150	22.	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	48.	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	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-08 Date Collected: 06/14/18 09:40

Client ID: SB-12 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	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	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	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: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-08 Date Collected: 06/14/18 09:40

Client ID: SB-12 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	35		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	29		10-136
4-Terphenyl-d14	45		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09 RE\D
Client ID: SB-13 0-1'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/22/18 16:25
Analyst: CB
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 06/22/18 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	840	110	5
Hexachlorobenzene	ND		ug/kg	630	120	5
Bis(2-chloroethyl)ether	ND		ug/kg	940	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	280	5
2,4-Dinitrotoluene	ND		ug/kg	1000	210	5
2,6-Dinitrotoluene	ND		ug/kg	1000	180	5
Fluoranthene	ND		ug/kg	630	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	3000	950	5
Hexachloroethane	ND		ug/kg	840	170	5
Isophorone	ND		ug/kg	940	140	5
Naphthalene	ND		ug/kg	1000	130	5
Nitrobenzene	ND		ug/kg	940	150	5
NDPA/DPA	ND		ug/kg	840	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	200	5
Di-n-octylphthalate	ND		ug/kg	1000	360	5
Diethyl phthalate	ND		ug/kg	1000	97.	5
Dimethyl phthalate	ND		ug/kg	1000	220	5
Benzo(a)anthracene	ND		ug/kg	630	120	5
Benzo(a)pyrene	ND		ug/kg	840	250	5

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09 RE\D Date Collected: 06/14/18 10:30
Client ID: SB-13 0-1' Date Received: 06/15/18
Sample Location: 1585 HERTEL AVE. 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	630	180	5
Benzo(k)fluoranthene	ND		ug/kg	630	170	5
Chrysene	ND		ug/kg	630	110	5
Acenaphthylene	ND		ug/kg	840	160	5
Anthracene	ND		ug/kg	630	200	5
Benzo(ghi)perylene	ND		ug/kg	840	120	5
Fluorene	ND		ug/kg	1000	100	5
Phenanthrene	ND		ug/kg	630	130	5
Dibenzo(a,h)anthracene	ND		ug/kg	630	120	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	840	140	5
Pyrene	ND		ug/kg	630	100	5
Biphenyl	ND		ug/kg	2400	240	5
4-Chloroaniline	ND		ug/kg	1000	190	5
2-Nitroaniline	ND		ug/kg	1000	200	5
3-Nitroaniline	ND		ug/kg	1000	200	5
4-Nitroaniline	ND		ug/kg	1000	430	5
Dibenzofuran	ND		ug/kg	1000	99.	5
2-Methylnaphthalene	ND		ug/kg	1200	130	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	630	200	5
p-Chloro-m-cresol	ND		ug/kg	1000	160	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	940	170	5
2,4-Dimethylphenol	ND		ug/kg	1000	340	5
2-Nitrophenol	ND		ug/kg	2200	390	5
4-Nitrophenol	ND		ug/kg	1500	430	5
2,4-Dinitrophenol	ND		ug/kg	5000	490	5
4,6-Dinitro-o-cresol	ND		ug/kg	2700	500	5
Pentachlorophenol	ND		ug/kg	840	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	ND		ug/kg	1000	100	5
Atrazine	ND		ug/kg	840	360	5
Benzaldehyde	ND		ug/kg	1400	280	5

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09 RE\D Date Collected: 06/14/18 10:30
Client ID: SB-13 0-1' Date Received: 06/15/18
Sample Location: 1585 HERTEL AVE. 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	320	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1000	210	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**24**	Q	25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	61		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09 D
Client ID: SB-13 0-1'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/24/18 03:54
Analyst: EK
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	840	110	5
Hexachlorobenzene	ND		ug/kg	630	120	5
Bis(2-chloroethyl)ether	ND		ug/kg	940	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	280	5
2,4-Dinitrotoluene	ND		ug/kg	1000	210	5
2,6-Dinitrotoluene	ND		ug/kg	1000	180	5
Fluoranthene	ND		ug/kg	630	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	3000	950	5
Hexachloroethane	ND		ug/kg	840	170	5
Isophorone	ND		ug/kg	940	140	5
Naphthalene	ND		ug/kg	1000	130	5
Nitrobenzene	ND		ug/kg	940	160	5
NDPA/DPA	ND		ug/kg	840	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	200	5
Di-n-octylphthalate	ND		ug/kg	1000	360	5
Diethyl phthalate	ND		ug/kg	1000	97.	5
Dimethyl phthalate	ND		ug/kg	1000	220	5
Benzo(a)anthracene	ND		ug/kg	630	120	5
Benzo(a)pyrene	ND		ug/kg	840	260	5

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09 D
Client ID: SB-13 0-1'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:30
Date Received: 06/15/18
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	630	180	5
Benzo(k)fluoranthene	ND		ug/kg	630	170	5
Chrysene	ND		ug/kg	630	110	5
Acenaphthylene	ND		ug/kg	840	160	5
Anthracene	ND		ug/kg	630	200	5
Benzo(ghi)perylene	ND		ug/kg	840	120	5
Fluorene	ND		ug/kg	1000	100	5
Phenanthrene	ND		ug/kg	630	130	5
Dibenzo(a,h)anthracene	ND		ug/kg	630	120	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	840	150	5
Pyrene	ND		ug/kg	630	100	5
Biphenyl	ND		ug/kg	2400	240	5
4-Chloroaniline	ND		ug/kg	1000	190	5
2-Nitroaniline	ND		ug/kg	1000	200	5
3-Nitroaniline	ND		ug/kg	1000	200	5
4-Nitroaniline	ND		ug/kg	1000	430	5
Dibenzofuran	ND		ug/kg	1000	99.	5
2-Methylnaphthalene	ND		ug/kg	1200	130	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	630	200	5
p-Chloro-m-cresol	ND		ug/kg	1000	160	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	940	170	5
2,4-Dimethylphenol	ND		ug/kg	1000	340	5
2-Nitrophenol	ND		ug/kg	2300	390	5
4-Nitrophenol	ND		ug/kg	1500	430	5
2,4-Dinitrophenol	ND		ug/kg	5000	490	5
4,6-Dinitro-o-cresol	ND		ug/kg	2700	500	5
Pentachlorophenol	ND		ug/kg	840	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	ND		ug/kg	1000	100	5
Atrazine	ND		ug/kg	840	370	5
Benzaldehyde	ND		ug/kg	1400	280	5

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09 D
Client ID: SB-13 0-1'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:30
Date Received: 06/15/18
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	320	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1000	210	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	25		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	**9**	Q	10-136
4-Terphenyl-d14	78		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10
Client ID: SB-13 8-12'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 03:10
Analyst: SZ
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

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	32.	1
Fluoranthene	ND		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	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		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	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10 Date Collected: 06/14/18 10:40

Client ID: SB-13 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	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	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	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	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: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10 Date Collected: 06/14/18 10:40

Client ID: SB-13 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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
Tentatively Identified Compounds						
Total TIC Compounds	1600	J	ug/kg			1
Unknown	391	J	ug/kg			1
Unknown	579	J	ug/kg			1
Unknown	630	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	43		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-11
Client ID: SB-14 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 01:03
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

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	ND		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	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		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	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-11 Date Collected: 06/14/18 11:30

Client ID: SB-14 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		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	75.	1
Dibenzofuran	ND		ug/kg	180	17.	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	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	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	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	64.	1
Benzaldehyde	ND		ug/kg	240	49.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-11 Date Collected: 06/14/18 11:30

Client ID: SB-14 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	69		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	66		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12
Client ID: SB-14 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 11:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 00:38
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

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	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	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		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	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	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	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	40.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12 Date Collected: 06/14/18 11:40

Client ID: SB-14 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	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	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		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	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	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	ND		ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	68.	1
Benzaldehyde	ND		ug/kg	260	52.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12 Date Collected: 06/14/18 11:40

Client ID: SB-14 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	66		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	57		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13
Client ID: BLIND DUP
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/21/18 01:01
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46

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	32.	1
Fluoranthene	ND		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	220	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	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		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	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13 Date Collected: 06/14/18 12:00

Client ID: BLIND DUP Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		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	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	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	51.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13 Date Collected: 06/14/18 12:00

Client ID: BLIND DUP Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	61		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	50		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/19/18 22:31
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG1127496-1					
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: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/19/18 22:31
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG1127496-1					
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: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/19/18 22:31
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG1127496-1					
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	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	67		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/22/18 21:49
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/22/18 08:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1128732-1					
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	43.
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	17.
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	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
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	27.

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/22/18 21:49
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/22/18 08:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1128732-1					
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	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
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	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/22/18 21:49
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/22/18 08:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1128732-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	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.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	87		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1127496-2 WG1127496-3								
Acenaphthene	72		75		31-137	4		50
Hexachlorobenzene	71		72		40-140	1		50
Bis(2-chloroethyl)ether	70		75		40-140	7		50
2-Chloronaphthalene	75		79		40-140	5		50
3,3'-Dichlorobenzidine	52		55		40-140	6		50
2,4-Dinitrotoluene	76		78		40-132	3		50
2,6-Dinitrotoluene	73		77		40-140	5		50
Fluoranthene	71		72		40-140	1		50
4-Chlorophenyl phenyl ether	72		74		40-140	3		50
4-Bromophenyl phenyl ether	73		74		40-140	1		50
Bis(2-chloroisopropyl)ether	77		84		40-140	9		50
Bis(2-chloroethoxy)methane	73		79		40-117	8		50
Hexachlorobutadiene	75		78		40-140	4		50
Hexachlorocyclopentadiene	61		64		40-140	5		50
Hexachloroethane	76		82		40-140	8		50
Isophorone	75		83		40-140	10		50
Naphthalene	74		75		40-140	1		50
Nitrobenzene	76		82		40-140	8		50
NDPA/DPA	74		76		36-157	3		50
n-Nitrosodi-n-propylamine	74		82		32-121	10		50
Bis(2-ethylhexyl)phthalate	81		83		40-140	2		50
Butyl benzyl phthalate	79		81		40-140	3		50
Di-n-butylphthalate	82		82		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1127496-2 WG1127496-3								
Di-n-octylphthalate	80		81		40-140	1		50
Diethyl phthalate	80		81		40-140	1		50
Dimethyl phthalate	76		80		40-140	5		50
Benzo(a)anthracene	73		76		40-140	4		50
Benzo(a)pyrene	67		69		40-140	3		50
Benzo(b)fluoranthene	67		69		40-140	3		50
Benzo(k)fluoranthene	70		72		40-140	3		50
Chrysene	68		69		40-140	1		50
Acenaphthylene	73		76		40-140	4		50
Anthracene	72		74		40-140	3		50
Benzo(ghi)perylene	72		75		40-140	4		50
Fluorene	73		74		40-140	1		50
Phenanthrene	71		72		40-140	1		50
Dibenzo(a,h)anthracene	73		76		40-140	4		50
Indeno(1,2,3-cd)pyrene	72		74		40-140	3		50
Pyrene	69		70		35-142	1		50
Biphenyl	76		80		54-104	5		50
4-Chloroaniline	61		67		40-140	9		50
2-Nitroaniline	71		76		47-134	7		50
3-Nitroaniline	58		59		26-129	2		50
4-Nitroaniline	66		68		41-125	3		50
Dibenzofuran	73		74		40-140	1		50
2-Methylnaphthalene	73		76		40-140	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1127496-2 WG1127496-3								
1,2,4,5-Tetrachlorobenzene	74		77		40-117	4		50
Acetophenone	73		80		14-144	9		50
2,4,6-Trichlorophenol	71		74		30-130	4		50
p-Chloro-m-cresol	79		83		26-103	5		50
2-Chlorophenol	74		79		25-102	7		50
2,4-Dichlorophenol	73		79		30-130	8		50
2,4-Dimethylphenol	82		90		30-130	9		50
2-Nitrophenol	71		79		30-130	11		50
4-Nitrophenol	83		85		11-114	2		50
2,4-Dinitrophenol	49		51		4-130	4		50
4,6-Dinitro-o-cresol	63		64		10-130	2		50
Pentachlorophenol	48		51		17-109	6		50
Phenol	71		76		26-90	7		50
2-Methylphenol	75		84		30-130.	11		50
3-Methylphenol/4-Methylphenol	68		74		30-130	8		50
2,4,5-Trichlorophenol	68		73		30-130	7		50
Carbazole	72		74		54-128	3		50
Atrazine	74		77		40-140	4		50
Benzaldehyde	64		68		40-140	6		50
Caprolactam	74		78		15-130	5		50
2,3,4,6-Tetrachlorophenol	67		70		40-140	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1127496-2 WG1127496-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	74		79		25-120
Phenol-d6	74		82		10-120
Nitrobenzene-d5	79		86		23-120
2-Fluorobiphenyl	73		77		30-120
2,4,6-Tribromophenol	76		79		10-136
4-Terphenyl-d14	76		78		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1128732-2 WG1128732-3								
Acenaphthene	75		82		31-137	9		50
Hexachlorobenzene	75		82		40-140	9		50
Bis(2-chloroethyl)ether	73		81		40-140	10		50
2-Chloronaphthalene	74		82		40-140	10		50
3,3'-Dichlorobenzidine	62		67		40-140	8		50
2,4-Dinitrotoluene	92		101		40-132	9		50
2,6-Dinitrotoluene	83		95		40-140	13		50
Fluoranthene	79		85		40-140	7		50
4-Chlorophenyl phenyl ether	76		84		40-140	10		50
4-Bromophenyl phenyl ether	77		86		40-140	11		50
Bis(2-chloroisopropyl)ether	87		93		40-140	7		50
Bis(2-chloroethoxy)methane	76		84		40-117	10		50
Hexachlorobutadiene	75		79		40-140	5		50
Hexachlorocyclopentadiene	66		73		40-140	10		50
Hexachloroethane	72		78		40-140	8		50
Isophorone	78		85		40-140	9		50
Naphthalene	71		78		40-140	9		50
Nitrobenzene	81		89		40-140	9		50
NDPA/DPA	78		84		36-157	7		50
n-Nitrosodi-n-propylamine	77		86		32-121	11		50
Bis(2-ethylhexyl)phthalate	86		95		40-140	10		50
Butyl benzyl phthalate	89		98		40-140	10		50
Di-n-butylphthalate	85		92		40-140	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1128732-2 WG1128732-3								
Di-n-octylphthalate	90		99		40-140	10		50
Diethyl phthalate	82		90		40-140	9		50
Dimethyl phthalate	78		86		40-140	10		50
Benzo(a)anthracene	77		84		40-140	9		50
Benzo(a)pyrene	78		86		40-140	10		50
Benzo(b)fluoranthene	74		83		40-140	11		50
Benzo(k)fluoranthene	76		83		40-140	9		50
Chrysene	74		81		40-140	9		50
Acenaphthylene	79		88		40-140	11		50
Anthracene	78		87		40-140	11		50
Benzo(ghi)perylene	77		87		40-140	12		50
Fluorene	80		86		40-140	7		50
Phenanthrene	76		84		40-140	10		50
Dibenzo(a,h)anthracene	76		86		40-140	12		50
Indeno(1,2,3-cd)pyrene	81		90		40-140	11		50
Pyrene	78		86		35-142	10		50
Biphenyl	74		83		54-104	11		50
4-Chloroaniline	78		88		40-140	12		50
2-Nitroaniline	86		96		47-134	11		50
3-Nitroaniline	71		78		26-129	9		50
4-Nitroaniline	79		89		41-125	12		50
Dibenzofuran	77		85		40-140	10		50
2-Methylnaphthalene	74		83		40-140	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1128732-2 WG1128732-3								
1,2,4,5-Tetrachlorobenzene	74		82		40-117	10		50
Acetophenone	73		81		14-144	10		50
2,4,6-Trichlorophenol	78		89		30-130	13		50
p-Chloro-m-cresol	81		89		26-103	9		50
2-Chlorophenol	74		79		25-102	7		50
2,4-Dichlorophenol	79		87		30-130	10		50
2,4-Dimethylphenol	79		88		30-130	11		50
2-Nitrophenol	84		92		30-130	9		50
4-Nitrophenol	111		**120**	Q	11-114	8		50
2,4-Dinitrophenol	95		104		4-130	9		50
4,6-Dinitro-o-cresol	107		116		10-130	8		50
Pentachlorophenol	71		80		17-109	12		50
Phenol	72		81		26-90	12		50
2-Methylphenol	79		89		30-130.	12		50
3-Methylphenol/4-Methylphenol	83		92		30-130	10		50
2,4,5-Trichlorophenol	82		90		30-130	9		50
Carbazole	81		88		54-128	8		50
Atrazine	82		91		40-140	10		50
Benzaldehyde	61		65		40-140	6		50
Caprolactam	102		115		15-130	12		50
2,3,4,6-Tetrachlorophenol	80		90		40-140	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1128732-2 WG1128732-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		81		25-120
Phenol-d6	79		86		10-120
Nitrobenzene-d5	82		89		23-120
2-Fluorobiphenyl	75		85		30-120
2,4,6-Tribromophenol	79		87		10-136
4-Terphenyl-d14	80		89		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1127496-6 WG1127496-7 QC Sample: L1822714-12 Client ID: SB-14 12-16'												
Acenaphthene	ND	1550	880	57		820	53		31-137	7		50
Hexachlorobenzene	ND	1550	890	58		830	54		40-140	7		50
Bis(2-chloroethyl)ether	ND	1550	900	58		890	58		40-140	1		50
2-Chloronaphthalene	ND	1550	910	59		880	57		40-140	3		50
3,3'-Dichlorobenzidine	ND	1550	670	43		580	**38**	Q	40-140	14		50
2,4-Dinitrotoluene	ND	1550	890	58		850	55		40-132	5		50
2,6-Dinitrotoluene	ND	1550	940	61		930	60		40-140	1		50
Fluoranthene	ND	1550	860	56		780	51		40-140	10		50
4-Chlorophenyl phenyl ether	ND	1550	870	56		830	54		40-140	5		50
4-Bromophenyl phenyl ether	ND	1550	910	59		870	57		40-140	4		50
Bis(2-chloroisopropyl)ether	ND	1550	920	59		920	60		40-140	0		50
Bis(2-chloroethoxy)methane	ND	1550	930	60		910	59		40-117	2		50
Hexachlorobutadiene	ND	1550	910	59		860	56		40-140	6		50
Hexachlorocyclopentadiene	ND	1550	640	41		570	**37**	Q	40-140	12		50
Hexachloroethane	ND	1550	870	56		880	57		40-140	1		50
Isophorone	ND	1550	910	59		900	59		40-140	1		50
Naphthalene	ND	1550	930	60		880	57		40-140	6		50
Nitrobenzene	ND	1550	910	59		890	58		40-140	2		50
NDPA/DPA	ND	1550	880	57		830	54		36-157	6		50
n-Nitrosodi-n-propylamine	ND	1550	910	59		910	59		32-121	0		50
Bis(2-ethylhexyl)phthalate	ND	1550	870	56		820	53		40-140	6		50
Butyl benzyl phthalate	ND	1550	860	56		800	52		40-140	7		50
Di-n-butylphthalate	ND	1550	860	56		790	51		40-140	8		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1127496-6 WG1127496-7 QC Sample: L1822714-12 Client ID: SB-14 12-16'												
Di-n-octylphthalate	ND	1550	880	57		820	53		40-140	7		50
Diethyl phthalate	ND	1550	860	56		820	53		40-140	5		50
Dimethyl phthalate	ND	1550	930	60		900	59		40-140	3		50
Benzo(a)anthracene	ND	1550	850	55		780	51		40-140	9		50
Benzo(a)pyrene	ND	1550	820	53		750	49		40-140	9		50
Benzo(b)fluoranthene	ND	1550	850	55		780	51		40-140	9		50
Benzo(k)fluoranthene	ND	1550	780	50		740	48		40-140	5		50
Chrysene	ND	1550	800	52		770	50		40-140	4		50
Acenaphthylene	ND	1550	960	62		920	60		40-140	4		50
Anthracene	ND	1550	870	56		800	52		40-140	8		50
Benzo(ghi)perylene	ND	1550	790	51		740	48		40-140	7		50
Fluorene	ND	1550	860	56		800	52		40-140	7		50
Phenanthrene	ND	1550	860	56		800	52		40-140	7		50
Dibenzo(a,h)anthracene	ND	1550	800	52		740	48		40-140	8		50
Indeno(1,2,3-cd)pyrene	ND	1550	750	48		710	46		40-140	5		50
Pyrene	ND	1550	850	55		780	51		35-142	9		50
Biphenyl	ND	1550	940	61		900	59		54-104	4		50
4-Chloroaniline	ND	1550	920	59		900	59		40-140	2		50
2-Nitroaniline	ND	1550	960	62		910	59		47-134	5		50
3-Nitroaniline	ND	1550	770	50		710	46		26-129	8		50
4-Nitroaniline	ND	1550	840	54		800	52		41-125	5		50
Dibenzofuran	ND	1550	880	57		830	54		40-140	6		50
2-Methylnaphthalene	ND	1550	940	61		920	60		40-140	2		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1127496-6 WG1127496-7 QC Sample: L1822714-12 Client ID: SB-14 12-16'												
1,2,4,5-Tetrachlorobenzene	ND	1550	950	61		920	60		40-117	3		50
Acetophenone	ND	1550	920	59		900	59		14-144	2		50
2,4,6-Trichlorophenol	ND	1550	950	61		900	59		30-130	5		50
p-Chloro-m-cresol	ND	1550	960	62		920	60		26-103	4		50
2-Chlorophenol	ND	1550	920	59		900	59		25-102	2		50
2,4-Dichlorophenol	ND	1550	950	61		940	61		30-130	1		50
2,4-Dimethylphenol	ND	1550	940	61		930	60		30-130	1		50
2-Nitrophenol	ND	1550	940	61		920	60		30-130	2		50
4-Nitrophenol	ND	1550	780	50		750	49		11-114	4		50
2,4-Dinitrophenol	ND	1550	200J	13		200J	13		4-130	0		50
4,6-Dinitro-o-cresol	ND	1550	690	45		670	44		10-130	3		50
Pentachlorophenol	ND	1550	700	45		610	40		17-109	14		50
Phenol	ND	1550	960	62		950	62		26-90	1		50
2-Methylphenol	ND	1550	960	62		930	60		30-130.	3		50
3-Methylphenol/4-Methylphenol	ND	1550	980	63		970	63		30-130	1		50
2,4,5-Trichlorophenol	ND	1550	950	61		920	60		30-130	3		50
Carbazole	ND	1550	880	57		810	**53**	Q	54-128	8		50
Atrazine	ND	1550	950	61		900	59		40-140	5		50
Benzaldehyde	ND	1550	840	54		840	55		40-140	0		50
Caprolactam	ND	1550	1000	65		980	64		15-130	2		50
2,3,4,6-Tetrachlorophenol	ND	1550	890	58		860	56		40-140	3		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1127496-6 WG1127496-7 QC Sample: L1822714-12 Client ID: SB-14 12-16'												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
2,4,6-Tribromophenol	61		59		10-136
2-Fluorobiphenyl	61		57		30-120
2-Fluorophenol	58		58		25-120
4-Terphenyl-d14	56		52		18-120
Nitrobenzene-d5	59		58		23-120
Phenol-d6	60		59		10-120

PCBS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01
Client ID: SB-9 0-3'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:20
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/22/18 12:47
Analyst: HT
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/18/18 05:26
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	4.14	1	A
Aroclor 1221	ND		ug/kg	36.5	5.56	1	A
Aroclor 1232	ND		ug/kg	36.5	3.59	1	A
Aroclor 1242	ND		ug/kg	36.5	4.47	1	A
Aroclor 1248	ND		ug/kg	36.5	4.10	1	A
Aroclor 1254	ND		ug/kg	36.5	2.98	1	A
Aroclor 1260	ND		ug/kg	36.5	3.81	1	A
Aroclor 1262	ND		ug/kg	36.5	3.00	1	A
Aroclor 1268	ND		ug/kg	36.5	2.58	1	A
PCBs, Total	ND		ug/kg	36.5	2.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04
Client ID: SB-10 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 13:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/22/18 12:21
Analyst: HT
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/18/18 06:04
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.3	4.34	1	A
Aroclor 1221	ND		ug/kg	38.3	5.83	1	A
Aroclor 1232	ND		ug/kg	38.3	3.77	1	A
Aroclor 1242	ND		ug/kg	38.3	4.69	1	A
Aroclor 1248	ND		ug/kg	38.3	4.30	1	A
Aroclor 1254	ND		ug/kg	38.3	3.12	1	A
Aroclor 1260	ND		ug/kg	38.3	4.00	1	A
Aroclor 1262	ND		ug/kg	38.3	3.15	1	A
Aroclor 1268	ND		ug/kg	38.3	2.71	1	A
PCBs, Total	ND		ug/kg	38.3	2.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05
Client ID: SB-11 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 14:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/22/18 13:48
Analyst: HT
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/18/18 06:07
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.1	4.32	1	A
Aroclor 1221	ND		ug/kg	38.1	5.80	1	A
Aroclor 1232	ND		ug/kg	38.1	3.75	1	A
Aroclor 1242	ND		ug/kg	38.1	4.67	1	A
Aroclor 1248	ND		ug/kg	38.1	4.28	1	A
Aroclor 1254	ND		ug/kg	38.1	3.11	1	A
Aroclor 1260	6.18	J	ug/kg	38.1	3.98	1	B
Aroclor 1262	ND		ug/kg	38.1	3.13	1	A
Aroclor 1268	ND		ug/kg	38.1	2.70	1	A
PCBs, Total	6.18	J	ug/kg	38.1	2.70	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06
Client ID: SB-11 16-20'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 15:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/22/18 14:00
Analyst: HT
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 06/18/18 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	4.19	1	A
Aroclor 1221	ND		ug/kg	37.0	5.62	1	A
Aroclor 1232	ND		ug/kg	37.0	3.64	1	A
Aroclor 1242	ND		ug/kg	37.0	4.52	1	A
Aroclor 1248	ND		ug/kg	37.0	4.14	1	A
Aroclor 1254	ND		ug/kg	37.0	3.02	1	A
Aroclor 1260	ND		ug/kg	37.0	3.86	1	A
Aroclor 1262	ND		ug/kg	37.0	3.04	1	A
Aroclor 1268	ND		ug/kg	37.0	2.62	1	A
PCBs, Total	ND		ug/kg	37.0	2.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07
Client ID: SB-12 0-4'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 09:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/22/18 14:13
Analyst: HT
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/18/18 06:11
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	4.25	1	A
Aroclor 1221	ND		ug/kg	37.5	5.71	1	A
Aroclor 1232	ND		ug/kg	37.5	3.69	1	A
Aroclor 1242	ND		ug/kg	37.5	4.59	1	A
Aroclor 1248	8.30	J	ug/kg	37.5	4.21	1	A
Aroclor 1254	ND		ug/kg	37.5	3.06	1	A
Aroclor 1260	ND		ug/kg	37.5	3.92	1	A
Aroclor 1262	ND		ug/kg	37.5	3.08	1	A
Aroclor 1268	ND		ug/kg	37.5	2.66	1	A
PCBs, Total	8.30	J	ug/kg	37.5	2.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	108		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10
Client ID: SB-13 8-12'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/22/18 12:34
Analyst: HT
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/18/18 06:12
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.2	4.33	1	A
Aroclor 1221	ND		ug/kg	38.2	5.81	1	A
Aroclor 1232	ND		ug/kg	38.2	3.76	1	A
Aroclor 1242	ND		ug/kg	38.2	4.68	1	A
Aroclor 1248	ND		ug/kg	38.2	4.29	1	A
Aroclor 1254	ND		ug/kg	38.2	3.12	1	A
Aroclor 1260	ND		ug/kg	38.2	3.99	1	A
Aroclor 1262	ND		ug/kg	38.2	3.14	1	A
Aroclor 1268	ND		ug/kg	38.2	2.70	1	A
PCBs, Total	ND		ug/kg	38.2	2.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12
Client ID: SB-14 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 11:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/22/18 11:42
Analyst: HT
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/18/18 06:13
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.9	4.41	1	A
Aroclor 1221	ND		ug/kg	38.9	5.92	1	A
Aroclor 1232	ND		ug/kg	38.9	3.82	1	A
Aroclor 1242	ND		ug/kg	38.9	4.76	1	A
Aroclor 1248	ND		ug/kg	38.9	4.36	1	A
Aroclor 1254	ND		ug/kg	38.9	3.17	1	A
Aroclor 1260	ND		ug/kg	38.9	4.06	1	A
Aroclor 1262	ND		ug/kg	38.9	3.20	1	A
Aroclor 1268	ND		ug/kg	38.9	2.75	1	A
PCBs, Total	ND		ug/kg	38.9	2.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13
Client ID: BLIND DUP
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/21/18 20:27
Analyst: WR
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 16:39
Cleanup Method: EPA 3665A
Cleanup Date: 06/20/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	4.29	1	A
Aroclor 1221	ND		ug/kg	37.8	5.75	1	A
Aroclor 1232	ND		ug/kg	37.8	3.72	1	A
Aroclor 1242	ND		ug/kg	37.8	4.63	1	A
Aroclor 1248	ND		ug/kg	37.8	4.24	1	A
Aroclor 1254	ND		ug/kg	37.8	3.08	1	A
Aroclor 1260	ND		ug/kg	37.8	3.95	1	A
Aroclor 1262	ND		ug/kg	37.8	3.11	1	A
Aroclor 1268	ND		ug/kg	37.8	2.68	1	A
PCBs, Total	ND		ug/kg	37.8	2.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/19/18 19:37
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 06/18/18 05:26
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,04-07,10,12 Batch: WG1126938-1						
Aroclor 1016	ND		ug/kg	32.7	3.71	A
Aroclor 1221	ND		ug/kg	32.7	4.98	A
Aroclor 1232	ND		ug/kg	32.7	3.22	A
Aroclor 1242	ND		ug/kg	32.7	4.00	A
Aroclor 1248	ND		ug/kg	32.7	3.67	A
Aroclor 1254	ND		ug/kg	32.7	2.67	A
Aroclor 1260	ND		ug/kg	32.7	3.42	A
Aroclor 1262	ND		ug/kg	32.7	2.69	A
Aroclor 1268	ND		ug/kg	32.7	2.32	A
PCBs, Total	ND		ug/kg	32.7	2.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/21/18 17:38
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:46
Cleanup Method: EPA 3665A
Cleanup Date: 06/20/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 13 Batch: WG1127497-1						
Aroclor 1016	ND		ug/kg	31.9	3.61	A
Aroclor 1221	ND		ug/kg	31.9	4.85	A
Aroclor 1232	ND		ug/kg	31.9	3.14	A
Aroclor 1242	ND		ug/kg	31.9	3.90	A
Aroclor 1248	ND		ug/kg	31.9	3.58	A
Aroclor 1254	ND		ug/kg	31.9	2.60	A
Aroclor 1260	ND		ug/kg	31.9	3.33	A
Aroclor 1262	ND		ug/kg	31.9	2.62	A
Aroclor 1268	ND		ug/kg	31.9	2.26	A
PCBs, Total	ND		ug/kg	31.9	2.26	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	56		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,04-07,10,12 Batch: WG1126938-2 WG1126938-3									
Aroclor 1016	65		66		40-140	2		50	A
Aroclor 1260	55		52		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		77		30-150	A
Decachlorobiphenyl	56		50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		79		30-150	B
Decachlorobiphenyl	74		65		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 13 Batch: WG1127497-2 WG1127497-3									
Aroclor 1016	72		74		40-140	3		50	A
Aroclor 1260	72		76		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		84		30-150	A
Decachlorobiphenyl	66		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		83		30-150	B
Decachlorobiphenyl	66		74		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Client ID: SB-14 12-16'	Associated sample(s): 01,04-07,10,12					QC Batch ID: WG1126938-6			WG1126938-7		QC Sample: L1822714-12		
Aroclor 1016	ND	244	174	71		174	71		40-140	0		50	A
Aroclor 1260	ND	244	178	73		181	74		40-140	2		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		81		30-150	A
Decachlorobiphenyl	75		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		77		30-150	B
Decachlorobiphenyl	75		74		30-150	B

PESTICIDES

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01
Client ID: SB-9 0-3'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:20
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 00:19
Analyst: KEG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.347	1	A
Lindane	ND		ug/kg	0.739	0.330	1	A
Alpha-BHC	ND		ug/kg	0.739	0.210	1	A
Beta-BHC	ND		ug/kg	1.77	0.673	1	A
Heptachlor	ND		ug/kg	0.887	0.398	1	A
Aldrin	ND		ug/kg	1.77	0.625	1	A
Heptachlor epoxide	ND		ug/kg	3.33	0.998	1	A
Endrin	ND		ug/kg	0.739	0.303	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.776	1	A
Endrin ketone	ND		ug/kg	1.77	0.457	1	A
Dieldrin	ND		ug/kg	1.11	0.554	1	A
4,4'-DDE	ND		ug/kg	1.77	0.410	1	A
4,4'-DDD	ND		ug/kg	1.77	0.633	1	A
4,4'-DDT	ND		ug/kg	3.33	1.43	1	A
Endosulfan I	ND		ug/kg	1.77	0.419	1	A
Endosulfan II	ND		ug/kg	1.77	0.593	1	A
Endosulfan sulfate	ND		ug/kg	0.739	0.352	1	A
Methoxychlor	ND		ug/kg	3.33	1.04	1	A
Toxaphene	ND		ug/kg	33.3	9.32	1	A
cis-Chlordane	ND		ug/kg	2.22	0.618	1	A
trans-Chlordane	ND		ug/kg	2.22	0.586	1	A
Chlordane	ND		ug/kg	14.4	5.88	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01 Date Collected: 06/14/18 12:20

Client ID: SB-9 0-3' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	75		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01
Client ID: SB-9 0-3'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:20
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/22/18 02:31
Analyst: KB
Percent Solids: 86%
Methylation Date: 06/20/18 21:13

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 20:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.82	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	140		30-150	A
DCAA	105		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04
Client ID: SB-10 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 13:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 00:32
Analyst: KEG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.354	1	A
Lindane	ND		ug/kg	0.754	0.337	1	A
Alpha-BHC	ND		ug/kg	0.754	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.686	1	A
Heptachlor	ND		ug/kg	0.905	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.637	1	A
Heptachlor epoxide	ND		ug/kg	3.39	1.02	1	A
Endrin	ND		ug/kg	0.754	0.309	1	A
Endrin aldehyde	ND		ug/kg	2.26	0.792	1	A
Endrin ketone	ND		ug/kg	1.81	0.466	1	A
Dieldrin	ND		ug/kg	1.13	0.566	1	A
4,4'-DDE	ND		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.646	1	A
4,4'-DDT	ND		ug/kg	3.39	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.605	1	A
Endosulfan sulfate	ND		ug/kg	0.754	0.359	1	A
Methoxychlor	ND		ug/kg	3.39	1.06	1	A
Toxaphene	ND		ug/kg	33.9	9.50	1	A
cis-Chlordane	ND		ug/kg	2.26	0.630	1	A
trans-Chlordane	ND		ug/kg	2.26	0.597	1	A
Chlordane	ND		ug/kg	14.7	6.00	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04 Date Collected: 06/14/18 13:40

Client ID: SB-10 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	66		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04
Client ID: SB-10 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 13:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/22/18 02:49
Analyst: KB
Percent Solids: 86%
Methylation Date: 06/20/18 21:13

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 20:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.82	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	137		30-150	A
DCAA	96		30-150	B

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05
Client ID: SB-11 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 14:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/26/18 16:42
Analyst: SL
Percent Solids: 84%
Methylation Date: 06/26/18 07:17

Extraction Method: EPA 8151A
Extraction Date: 06/25/18 12:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	198	12.5	1	A
2,4,5-T	ND		ug/kg	198	6.15	1	A
2,4,5-TP (Silvex)	ND		ug/kg	198	5.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	42		30-150	A
DCAA	46		30-150	B

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05 D
Client ID: SB-11 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 14:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 02:51
Analyst: KEG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	9.34	1.83	5	A
Lindane	ND		ug/kg	3.89	1.74	5	A
Alpha-BHC	ND		ug/kg	3.89	1.10	5	A
Beta-BHC	ND		ug/kg	9.34	3.54	5	A
Heptachlor	ND		ug/kg	4.67	2.09	5	A
Aldrin	ND		ug/kg	9.34	3.29	5	A
Heptachlor epoxide	ND		ug/kg	17.5	5.25	5	A
Endrin	ND		ug/kg	3.89	1.59	5	A
Endrin aldehyde	ND		ug/kg	11.7	4.08	5	A
Endrin ketone	ND		ug/kg	9.34	2.40	5	A
Dieldrin	ND		ug/kg	5.83	2.92	5	A
4,4'-DDE	ND		ug/kg	9.34	2.16	5	A
4,4'-DDD	ND		ug/kg	9.34	3.33	5	A
4,4'-DDT	ND		ug/kg	17.5	7.51	5	A
Endosulfan I	ND		ug/kg	9.34	2.20	5	A
Endosulfan II	ND		ug/kg	9.34	3.12	5	A
Endosulfan sulfate	ND		ug/kg	3.89	1.85	5	A
Methoxychlor	ND		ug/kg	17.5	5.44	5	A
Toxaphene	ND		ug/kg	175	49.0	5	A
cis-Chlordane	ND		ug/kg	11.7	3.25	5	A
trans-Chlordane	ND		ug/kg	11.7	3.08	5	A
Chlordane	ND		ug/kg	75.8	30.9	5	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05 D
Client ID: SB-11 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 14:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	66		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06
Client ID: SB-11 16-20'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 15:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 02:39
Analyst: KEG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.335	1	A
Lindane	ND		ug/kg	0.713	0.319	1	A
Alpha-BHC	ND		ug/kg	0.713	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.649	1	A
Heptachlor	ND		ug/kg	0.856	0.384	1	A
Aldrin	ND		ug/kg	1.71	0.603	1	A
Heptachlor epoxide	ND		ug/kg	3.21	0.963	1	A
Endrin	ND		ug/kg	0.713	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.749	1	A
Endrin ketone	ND		ug/kg	1.71	0.441	1	A
Dieldrin	ND		ug/kg	1.07	0.535	1	A
4,4'-DDE	0.472	J	ug/kg	1.71	0.396	1	B
4,4'-DDD	ND		ug/kg	1.71	0.610	1	A
4,4'-DDT	ND		ug/kg	3.21	1.38	1	A
Endosulfan I	ND		ug/kg	1.71	0.404	1	A
Endosulfan II	ND		ug/kg	1.71	0.572	1	A
Endosulfan sulfate	ND		ug/kg	0.713	0.339	1	A
Methoxychlor	ND		ug/kg	3.21	0.998	1	A
Toxaphene	ND		ug/kg	32.1	8.98	1	A
cis-Chlordane	ND		ug/kg	2.14	0.596	1	A
trans-Chlordane	ND		ug/kg	2.14	0.565	1	A
Chlordane	ND		ug/kg	13.9	5.67	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06 Date Collected: 06/14/18 15:00

Client ID: SB-11 16-20' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06
Client ID: SB-11 16-20'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 15:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/22/18 03:08
Analyst: KB
Percent Solids: 89%
Methylation Date: 06/20/18 21:13

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 20:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.69	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	150		30-150	A
DCAA	108		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07
Client ID: SB-12 0-4'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 09:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 00:45
Analyst: KEG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.748	0.334	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.898	0.402	1	A
Aldrin	ND		ug/kg	1.80	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.748	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.785	1	A
Endrin ketone	ND		ug/kg	1.80	0.462	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	ND		ug/kg	1.80	0.415	1	A
4,4'-DDD	ND		ug/kg	1.80	0.640	1	A
4,4'-DDT	ND		ug/kg	3.36	1.44	1	A
Endosulfan I	ND		ug/kg	1.80	0.424	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.36	1.05	1	A
Toxaphene	ND		ug/kg	33.6	9.42	1	A
cis-Chlordane	ND		ug/kg	2.24	0.625	1	A
trans-Chlordane	ND		ug/kg	2.24	0.592	1	A
Chlordane	ND		ug/kg	14.6	5.95	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07 Date Collected: 06/14/18 09:30

Client ID: SB-12 0-4' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	58		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	48		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07
Client ID: SB-12 0-4'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 09:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/22/18 03:46
Analyst: KB
Percent Solids: 86%
Methylation Date: 06/20/18 21:13

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 20:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	191	12.0	1	A
2,4,5-T	ND		ug/kg	191	5.93	1	A
2,4,5-TP (Silvex)	ND		ug/kg	191	5.08	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**154**	Q	30-150	A
DCAA	118		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10
Client ID: SB-13 8-12'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 01:48
Analyst: KEG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.731	0.326	1	A
Alpha-BHC	ND		ug/kg	0.731	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.665	1	A
Heptachlor	ND		ug/kg	0.877	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.731	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.548	1	A
4,4'-DDE	ND		ug/kg	1.75	0.406	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	ND		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.731	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.20	1	A
cis-Chlordane	ND		ug/kg	2.19	0.611	1	A
trans-Chlordane	ND		ug/kg	2.19	0.579	1	A
Chlordane	ND		ug/kg	14.2	5.81	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10 Date Collected: 06/14/18 10:40

Client ID: SB-13 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	66		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10
Client ID: SB-13 8-12'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/22/18 04:05
Analyst: KB
Percent Solids: 87%
Methylation Date: 06/20/18 21:13

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 20:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.9	1	A
2,4,5-T	ND		ug/kg	188	5.84	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	112		30-150	A
DCAA	85		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12
Client ID: SB-14 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 11:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 00:57
Analyst: KEG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.87	0.366	1	A
Lindane	ND		ug/kg	0.778	0.348	1	A
Alpha-BHC	ND		ug/kg	0.778	0.221	1	A
Beta-BHC	ND		ug/kg	1.87	0.708	1	A
Heptachlor	ND		ug/kg	0.934	0.418	1	A
Aldrin	ND		ug/kg	1.87	0.657	1	A
Heptachlor epoxide	ND		ug/kg	3.50	1.05	1	A
Endrin	ND		ug/kg	0.778	0.319	1	A
Endrin aldehyde	ND		ug/kg	2.33	0.817	1	A
Endrin ketone	ND		ug/kg	1.87	0.481	1	A
Dieldrin	ND		ug/kg	1.17	0.583	1	A
4,4'-DDE	ND		ug/kg	1.87	0.432	1	A
4,4'-DDD	ND		ug/kg	1.87	0.666	1	A
4,4'-DDT	ND		ug/kg	3.50	1.50	1	A
Endosulfan I	ND		ug/kg	1.87	0.441	1	A
Endosulfan II	ND		ug/kg	1.87	0.624	1	A
Endosulfan sulfate	ND		ug/kg	0.778	0.370	1	A
Methoxychlor	ND		ug/kg	3.50	1.09	1	A
Toxaphene	ND		ug/kg	35.0	9.80	1	A
cis-Chlordane	ND		ug/kg	2.33	0.650	1	A
trans-Chlordane	ND		ug/kg	2.33	0.616	1	A
Chlordane	ND		ug/kg	15.2	6.18	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12 Date Collected: 06/14/18 11:40

Client ID: SB-14 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12
Client ID: SB-14 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 11:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/22/18 04:24
Analyst: KB
Percent Solids: 84%
Methylation Date: 06/20/18 21:13

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 20:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.03	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	120		30-150	A
DCAA	96		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13
Client ID: BLIND DUP
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/22/18 02:13
Analyst: KEG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 11:02
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.356	1	A
Lindane	ND		ug/kg	0.757	0.338	1	A
Alpha-BHC	ND		ug/kg	0.757	0.215	1	A
Beta-BHC	ND		ug/kg	1.82	0.688	1	A
Heptachlor	ND		ug/kg	0.908	0.407	1	A
Aldrin	ND		ug/kg	1.82	0.639	1	A
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1	A
Endrin	ND		ug/kg	0.757	0.310	1	A
Endrin aldehyde	ND		ug/kg	2.27	0.794	1	A
Endrin ketone	ND		ug/kg	1.82	0.468	1	A
Dieldrin	ND		ug/kg	1.14	0.568	1	A
4,4'-DDE	ND		ug/kg	1.82	0.420	1	A
4,4'-DDD	ND		ug/kg	1.82	0.648	1	A
4,4'-DDT	ND		ug/kg	3.40	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.429	1	A
Endosulfan II	ND		ug/kg	1.82	0.607	1	A
Endosulfan sulfate	ND		ug/kg	0.757	0.360	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.53	1	A
cis-Chlordane	ND		ug/kg	2.27	0.633	1	A
trans-Chlordane	ND		ug/kg	2.27	0.599	1	A
Chlordane	ND		ug/kg	14.8	6.02	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13 Date Collected: 06/14/18 12:00

Client ID: BLIND DUP Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13
Client ID: BLIND DUP
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/22/18 05:20
Analyst: KB
Percent Solids: 87%
Methylation Date: 06/20/18 21:13

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 20:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	190	12.0	1	A
2,4,5-T	ND		ug/kg	190	5.89	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	89		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/20/18 03:15
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 06/19/18 04:04

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04-07,10,12-13 Batch: WG1127292-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.642	0.287	A
Alpha-BHC	ND		ug/kg	0.642	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.584	A
Heptachlor	ND		ug/kg	0.771	0.346	A
Aldrin	ND		ug/kg	1.54	0.543	A
Heptachlor epoxide	ND		ug/kg	2.89	0.867	A
Endrin	ND		ug/kg	0.642	0.263	A
Endrin aldehyde	ND		ug/kg	1.93	0.674	A
Endrin ketone	ND		ug/kg	1.54	0.397	A
Dieldrin	ND		ug/kg	0.963	0.482	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.550	A
4,4'-DDT	ND		ug/kg	2.89	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.364	A
Endosulfan II	ND		ug/kg	1.54	0.515	A
Endosulfan sulfate	ND		ug/kg	0.642	0.306	A
Methoxychlor	ND		ug/kg	2.89	0.899	A
Toxaphene	ND		ug/kg	28.9	8.09	A
cis-Chlordane	ND		ug/kg	1.93	0.537	A
trans-Chlordane	ND		ug/kg	1.93	0.509	A
Chlordane	ND		ug/kg	12.5	5.10	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/20/18 03:15
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 06/19/18 04:04

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04-07,10,12-13 Batch: WG1127292-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/20/18 12:11
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 06:22

Methylation Date: 06/19/18 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01,04,06-07,10,12-13 Batch: WG1127325-1						
2,4-D	ND		ug/kg	161	10.2	A
2,4,5-T	ND		ug/kg	161	5.00	A
2,4,5-TP (Silvex)	ND		ug/kg	161	4.29	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	113		30-150	A
DCAA	108		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/26/18 15:45
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 06/25/18 12:25

Methylation Date: 06/26/18 07:17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 05 Batch: WG1129455-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.12	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.40	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	101		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04-07,10,12-13 Batch: WG1127292-2 WG1127292-3									
Delta-BHC	117		116		30-150	1		30	A
Lindane	113		112		30-150	1		30	A
Alpha-BHC	122		120		30-150	2		30	A
Beta-BHC	116		120		30-150	3		30	A
Heptachlor	105		106		30-150	1		30	A
Aldrin	111		111		30-150	0		30	A
Heptachlor epoxide	106		105		30-150	1		30	A
Endrin	110		117		30-150	6		30	A
Endrin aldehyde	101		113		30-150	11		30	A
Endrin ketone	115		127		30-150	10		30	A
Dieldrin	120		126		30-150	5		30	A
4,4'-DDE	111		118		30-150	6		30	A
4,4'-DDD	115		125		30-150	8		30	A
4,4'-DDT	112		124		30-150	10		30	A
Endosulfan I	105		109		30-150	4		30	A
Endosulfan II	108		115		30-150	6		30	A
Endosulfan sulfate	99		108		30-150	9		30	A
Methoxychlor	100		111		30-150	10		30	A
cis-Chlordane	95		99		30-150	4		30	A
trans-Chlordane	82		82		30-150	0		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04-07,10,12-13 Batch: WG1127292-2 WG1127292-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		77		30-150	B
Decachlorobiphenyl	84		90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		77		30-150	A
Decachlorobiphenyl	79		77		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01,04,06-07,10,12-13 Batch: WG1127325-2 WG1127325-3									
2,4-D	149		**154**	Q	30-150	3		30	A
2,4,5-T	112		115		30-150	3		30	A
2,4,5-TP (Silvex)	136		138		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	112		111		30-150	A
DCAA	110		114		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1129455-2									
2,4-D	89		-		30-150	-		30	A
2,4,5-T	67		-		30-150	-		30	A
2,4,5-TP (Silvex)	127		-		30-150	-		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	88				30-150	A
DCAA	93				30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04-07,10,12-13 QC Batch ID: WG1127292-4 WG1127292-5 QC Sample: L1822714-12 Client ID: SB-14 12-16'													
Delta-BHC	ND	38.5	39.3	102		39.1	104		30-150	1		50	A
Lindane	ND	38.5	35.3	92		33.9	90		30-150	4		50	A
Alpha-BHC	ND	38.5	36.7	95		34.7	92		30-150	6		50	A
Beta-BHC	ND	38.5	38.2	99		37.8	100		30-150	1		50	A
Heptachlor	ND	38.5	41.2	107		38.6	102		30-150	7		50	A
Aldrin	ND	38.5	38.4	100		35.6	95		30-150	8		50	A
Heptachlor epoxide	ND	38.5	43.3	112		40.0	106		30-150	8		50	A
Endrin	ND	38.5	43.1	112		42.8	114		30-150	1		50	A
Endrin aldehyde	ND	38.5	31.5	82		35.7	95		30-150	13		50	A
Endrin ketone	ND	38.5	36.2	94		37.7	100		30-150	4		50	A
Dieldrin	ND	38.5	41.1	107		39.0	103		30-150	5		50	A
4,4'-DDE	ND	38.5	37.6	98		36.5	97		30-150	3		50	A
4,4'-DDD	ND	38.5	37.9	98		38.1	101		30-150	1		50	A
4,4'-DDT	ND	38.5	39.0	101		38.0	101		30-150	3		50	A
Endosulfan I	ND	38.5	39.1	102		36.9	98		30-150	6		50	A
Endosulfan II	ND	38.5	38.7	100		38.0	101		30-150	2		50	A
Endosulfan sulfate	ND	38.5	36.2	94		36.4	97		30-150	1		50	A
Methoxychlor	ND	38.5	38.1	99		37.6	100		30-150	1		50	A
cis-Chlordane	ND	38.5	36.8	96		33.1	88		30-150	11		50	A
trans-Chlordane	ND	38.5	36.2	94		29.0	77		30-150	22		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04-07,10,12-13 QC Batch ID: WG1127292-4 WG1127292-5 QC Sample: L1822714-12 Client ID: SB-14 12-16'												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		87		30-150	B
Decachlorobiphenyl	76		82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		70		30-150	A
Decachlorobiphenyl	77		80		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01,04,06-07,10,12-13 QC Batch ID: WG1127325-4 WG1127325-5 QC Sample: L1822714-12 Client ID: SB-14 12-16'													
2,4-D	ND	196	222	113		252	130		30-150	13		30	A
2,4,5-T	ND	196	206	105		197	102		30-150	4		30	A
2,4,5-TP (Silvex)	ND	196	299	**152**	Q	257	132		30-150	15		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	108		116		30-150	A
DCAA	95		103		30-150	B

METALS

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01
Client ID: SB-9 0-3'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 12:20
Date Received: 06/15/18
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	8310		mg/kg	9.14	2.47	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Antimony, Total	0.649	J	mg/kg	4.57	0.348	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Arsenic, Total	2.41		mg/kg	0.914	0.190	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Barium, Total	80.0		mg/kg	0.914	0.159	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Beryllium, Total	0.329	J	mg/kg	0.457	0.030	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Cadmium, Total	0.485	J	mg/kg	0.914	0.090	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Calcium, Total	84400		mg/kg	91.4	32.0	20	06/21/18 20:37	06/22/18 12:11	EPA 3050B	1,6010C	PS
Chromium, Total	12.4		mg/kg	0.914	0.088	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Cobalt, Total	6.41		mg/kg	1.83	0.152	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Copper, Total	18.1		mg/kg	0.914	0.236	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Iron, Total	16100		mg/kg	4.57	0.826	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Lead, Total	9.55		mg/kg	4.57	0.245	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Magnesium, Total	14200		mg/kg	9.14	1.41	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Manganese, Total	442		mg/kg	0.914	0.145	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Mercury, Total	0.031	J	mg/kg	0.074	0.016	1	06/21/18 09:00	06/21/18 20:13	EPA 7471B	1,7471B	BV
Nickel, Total	13.7		mg/kg	2.29	0.221	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Potassium, Total	1190		mg/kg	229	13.2	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.83	0.236	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.914	0.259	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Sodium, Total	192		mg/kg	183	2.88	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Thallium, Total	0.558	J	mg/kg	1.83	0.288	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Vanadium, Total	17.1		mg/kg	0.914	0.186	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB
Zinc, Total	53.3		mg/kg	4.57	0.268	2	06/21/18 20:37	06/22/18 05:26	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-02 Date Collected: 06/14/18 12:40

Client ID: SB-9 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	8420		mg/kg	8.97	2.42	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Antimony, Total	0.493	J	mg/kg	4.48	0.341	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Arsenic, Total	2.74		mg/kg	0.897	0.186	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Barium, Total	39.9		mg/kg	0.897	0.156	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Beryllium, Total	0.377	J	mg/kg	0.448	0.030	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Cadmium, Total	0.511	J	mg/kg	0.897	0.088	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Calcium, Total	75000		mg/kg	89.7	31.4	20	06/21/18 20:37	06/22/18 12:15	EPA 3050B	1,6010C	PS
Chromium, Total	13.0		mg/kg	0.897	0.086	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Cobalt, Total	9.08		mg/kg	1.79	0.149	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Copper, Total	22.3		mg/kg	0.897	0.231	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Iron, Total	18200		mg/kg	4.48	0.810	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Lead, Total	8.77		mg/kg	4.48	0.240	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Magnesium, Total	15100		mg/kg	8.97	1.38	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Manganese, Total	440		mg/kg	0.897	0.143	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Mercury, Total	0.027	J	mg/kg	0.073	0.016	1	06/21/18 09:00	06/21/18 20:15	EPA 7471B	1,7471B	BV
Nickel, Total	13.9		mg/kg	2.24	0.217	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Potassium, Total	1110		mg/kg	224	12.9	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.79	0.231	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.897	0.254	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Sodium, Total	201		mg/kg	179	2.82	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Thallium, Total	0.404	J	mg/kg	1.79	0.282	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Vanadium, Total	18.6		mg/kg	0.897	0.182	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB
Zinc, Total	56.1		mg/kg	4.48	0.263	2	06/21/18 20:37	06/22/18 05:31	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-03
Client ID: SB-10 0-0.5'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 13:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10300		mg/kg	7.95	2.15	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Antimony, Total	0.954	J	mg/kg	3.98	0.302	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Arsenic, Total	3.12		mg/kg	0.795	0.165	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Barium, Total	133		mg/kg	0.795	0.138	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Beryllium, Total	0.612		mg/kg	0.398	0.026	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Cadmium, Total	0.636	J	mg/kg	0.795	0.078	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Calcium, Total	20800		mg/kg	7.95	2.78	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Chromium, Total	13.0		mg/kg	0.795	0.076	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Cobalt, Total	7.88		mg/kg	1.59	0.132	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Copper, Total	18.6		mg/kg	0.795	0.205	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Iron, Total	19900		mg/kg	3.98	0.718	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Lead, Total	15.2		mg/kg	3.98	0.213	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Magnesium, Total	5160		mg/kg	7.95	1.22	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Manganese, Total	374		mg/kg	0.795	0.126	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Mercury, Total	0.041	J	mg/kg	0.064	0.014	1	06/21/18 09:00	06/21/18 20:17	EPA 7471B	1,7471B	BV
Nickel, Total	16.5		mg/kg	1.99	0.192	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Potassium, Total	1000		mg/kg	199	11.4	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.59	0.205	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.795	0.225	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Sodium, Total	345		mg/kg	159	2.50	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Thallium, Total	0.294	J	mg/kg	1.59	0.250	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Vanadium, Total	20.3		mg/kg	0.795	0.161	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB
Zinc, Total	57.6		mg/kg	3.98	0.233	2	06/21/18 20:37	06/22/18 05:36	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04
Client ID: SB-10 12-16'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 13:40
Date Received: 06/15/18
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	8000		mg/kg	9.02	2.44	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Antimony, Total	0.514	J	mg/kg	4.51	0.343	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Arsenic, Total	1.06		mg/kg	0.902	0.188	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Barium, Total	67.8		mg/kg	0.902	0.157	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Beryllium, Total	0.325	J	mg/kg	0.451	0.030	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Cadmium, Total	0.478	J	mg/kg	0.902	0.088	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Calcium, Total	61300		mg/kg	90.2	31.6	20	06/21/18 20:37	06/22/18 12:20	EPA 3050B	1,6010C	PS
Chromium, Total	12.7		mg/kg	0.902	0.087	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Cobalt, Total	6.65		mg/kg	1.80	0.150	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Copper, Total	17.6		mg/kg	0.902	0.233	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Iron, Total	15800		mg/kg	4.51	0.814	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Lead, Total	8.35		mg/kg	4.51	0.242	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Magnesium, Total	15800		mg/kg	9.02	1.39	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Manganese, Total	397		mg/kg	0.902	0.143	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Mercury, Total	0.019	J	mg/kg	0.073	0.015	1	06/21/18 09:00	06/21/18 20:19	EPA 7471B	1,7471B	BV
Nickel, Total	14.6		mg/kg	2.26	0.218	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Potassium, Total	1260		mg/kg	226	13.0	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.80	0.233	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.902	0.255	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Sodium, Total	165	J	mg/kg	180	2.84	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.80	0.284	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Vanadium, Total	17.0		mg/kg	0.902	0.183	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB
Zinc, Total	47.3		mg/kg	4.51	0.264	2	06/21/18 20:37	06/22/18 05:40	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05
Client ID: SB-11 0-0.5'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 14:40
Date Received: 06/15/18
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	2300		mg/kg	9.11	2.46	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.56	0.346	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Arsenic, Total	2.60		mg/kg	0.911	0.190	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Barium, Total	22.6		mg/kg	0.911	0.158	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Beryllium, Total	0.137	J	mg/kg	0.456	0.030	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Cadmium, Total	0.282	J	mg/kg	0.911	0.089	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Calcium, Total	44400		mg/kg	9.11	3.19	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Chromium, Total	4.51		mg/kg	0.911	0.088	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Cobalt, Total	1.85		mg/kg	1.82	0.151	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Copper, Total	7.84		mg/kg	0.911	0.235	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Iron, Total	4310		mg/kg	4.56	0.823	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Lead, Total	26.2		mg/kg	4.56	0.244	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Magnesium, Total	4110		mg/kg	9.11	1.40	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Manganese, Total	160		mg/kg	0.911	0.145	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Mercury, Total	0.021	J	mg/kg	0.075	0.016	1	06/21/18 09:00	06/21/18 20:25	EPA 7471B	1,7471B	BV
Nickel, Total	6.57		mg/kg	2.28	0.220	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Potassium, Total	302		mg/kg	228	13.1	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.82	0.235	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.911	0.258	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Sodium, Total	103	J	mg/kg	182	2.87	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.82	0.287	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Vanadium, Total	5.10		mg/kg	0.911	0.185	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB
Zinc, Total	39.2		mg/kg	4.56	0.267	2	06/21/18 20:37	06/22/18 06:03	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06
Client ID: SB-11 16-20'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 15:00
Date Received: 06/15/18
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	1630		mg/kg	8.83	2.38	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.42	0.336	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Arsenic, Total	2.53		mg/kg	0.883	0.184	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Barium, Total	14.6		mg/kg	0.883	0.154	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Beryllium, Total	0.044	J	mg/kg	0.442	0.029	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Cadmium, Total	0.186	J	mg/kg	0.883	0.087	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Calcium, Total	89200		mg/kg	88.3	30.9	20	06/21/18 20:37	06/22/18 12:24	EPA 3050B	1,6010C	PS
Chromium, Total	3.55		mg/kg	0.883	0.085	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Cobalt, Total	2.11		mg/kg	1.77	0.147	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Copper, Total	5.50		mg/kg	0.883	0.228	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Iron, Total	4410		mg/kg	4.42	0.798	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Lead, Total	7.95		mg/kg	4.42	0.237	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Magnesium, Total	4880		mg/kg	8.83	1.36	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Manganese, Total	129		mg/kg	0.883	0.140	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Mercury, Total	0.018	J	mg/kg	0.070	0.015	1	06/21/18 09:00	06/21/18 20:26	EPA 7471B	1,7471B	BV
Nickel, Total	5.12		mg/kg	2.21	0.214	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Potassium, Total	225		mg/kg	221	12.7	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.77	0.228	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.883	0.250	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Sodium, Total	109	J	mg/kg	177	2.78	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.77	0.278	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Vanadium, Total	4.83		mg/kg	0.883	0.179	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB
Zinc, Total	19.0		mg/kg	4.42	0.259	2	06/21/18 20:37	06/22/18 06:08	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07
Client ID: SB-12 0-4'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 09:30
Date Received: 06/15/18
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	3170		mg/kg	9.24	2.50	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.62	0.351	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Arsenic, Total	1.30		mg/kg	0.924	0.192	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Barium, Total	23.2		mg/kg	0.924	0.161	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Beryllium, Total	0.102	J	mg/kg	0.462	0.031	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Cadmium, Total	0.462	J	mg/kg	0.924	0.091	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Calcium, Total	73200		mg/kg	92.4	32.4	20	06/21/18 20:37	06/22/18 12:29	EPA 3050B	1,6010C	PS
Chromium, Total	6.05		mg/kg	0.924	0.089	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Cobalt, Total	2.66		mg/kg	1.85	0.153	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Copper, Total	10.6		mg/kg	0.924	0.238	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Iron, Total	7870		mg/kg	4.62	0.835	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Lead, Total	13.4		mg/kg	4.62	0.248	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Magnesium, Total	18500		mg/kg	9.24	1.42	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Manganese, Total	228		mg/kg	0.924	0.147	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Mercury, Total	0.020	J	mg/kg	0.073	0.016	1	06/21/18 09:00	06/21/18 20:28	EPA 7471B	1,7471B	BV
Nickel, Total	5.49		mg/kg	2.31	0.224	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Potassium, Total	573		mg/kg	231	13.3	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.85	0.238	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.924	0.262	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Sodium, Total	318		mg/kg	185	2.91	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Thallium, Total	0.360	J	mg/kg	1.85	0.291	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Vanadium, Total	9.13		mg/kg	0.924	0.188	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB
Zinc, Total	54.2		mg/kg	4.62	0.271	2	06/21/18 20:37	06/22/18 06:13	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-08 Date Collected: 06/14/18 09:40

Client ID: SB-12 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	3310		mg/kg	8.78	2.37	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.39	0.334	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Arsenic, Total	1.48		mg/kg	0.878	0.183	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Barium, Total	24.2		mg/kg	0.878	0.153	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Beryllium, Total	0.097	J	mg/kg	0.439	0.029	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Cadmium, Total	0.457	J	mg/kg	0.878	0.086	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Calcium, Total	72600		mg/kg	87.8	30.7	20	06/21/18 20:37	06/22/18 12:34	EPA 3050B	1,6010C	PS
Chromium, Total	5.58		mg/kg	0.878	0.084	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Cobalt, Total	2.65		mg/kg	1.76	0.146	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Copper, Total	10.1		mg/kg	0.878	0.226	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Iron, Total	7600		mg/kg	4.39	0.793	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Lead, Total	7.73		mg/kg	4.39	0.235	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Magnesium, Total	19500		mg/kg	8.78	1.35	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Manganese, Total	219		mg/kg	0.878	0.140	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Mercury, Total	0.019	J	mg/kg	0.072	0.015	1	06/21/18 09:00	06/21/18 20:30	EPA 7471B	1,7471B	BV
Nickel, Total	5.72		mg/kg	2.20	0.212	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Potassium, Total	463		mg/kg	220	12.6	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.76	0.226	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.878	0.248	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Sodium, Total	168	J	mg/kg	176	2.77	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Thallium, Total	0.298	J	mg/kg	1.76	0.277	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Vanadium, Total	9.01		mg/kg	0.878	0.178	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB
Zinc, Total	49.6		mg/kg	4.39	0.257	2	06/21/18 20:37	06/22/18 06:17	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09
Client ID: SB-13 0-1'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 10:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13300		mg/kg	10.2	2.75	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	5.10	0.387	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Arsenic, Total	1.57		mg/kg	1.02	0.212	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Barium, Total	97.5		mg/kg	1.02	0.177	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Beryllium, Total	0.550		mg/kg	0.510	0.034	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Cadmium, Total	0.408	J	mg/kg	1.02	0.100	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Calcium, Total	8500		mg/kg	10.2	3.57	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Chromium, Total	14.8		mg/kg	1.02	0.098	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Cobalt, Total	4.81		mg/kg	2.04	0.169	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Copper, Total	11.9		mg/kg	1.02	0.263	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Iron, Total	12600		mg/kg	5.10	0.920	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Lead, Total	22.2		mg/kg	5.10	0.273	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Magnesium, Total	3420		mg/kg	10.2	1.57	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Manganese, Total	198		mg/kg	1.02	0.162	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Mercury, Total	0.065	J	mg/kg	0.081	0.017	1	06/21/18 09:00	06/21/18 20:32	EPA 7471B	1,7471B	BV
Nickel, Total	12.1		mg/kg	2.55	0.246	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Potassium, Total	825		mg/kg	255	14.7	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	2.04	0.263	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.02	0.288	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Sodium, Total	171	J	mg/kg	204	3.21	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.04	0.321	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Vanadium, Total	15.6		mg/kg	1.02	0.207	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB
Zinc, Total	107		mg/kg	5.10	0.298	2	06/21/18 20:37	06/22/18 06:22	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10 Date Collected: 06/14/18 10:40

Client ID: SB-13 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	8190		mg/kg	8.72	2.36	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Antimony, Total	0.750	J	mg/kg	4.36	0.332	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Arsenic, Total	1.55		mg/kg	0.872	0.181	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Barium, Total	73.9		mg/kg	0.872	0.152	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Beryllium, Total	0.340	J	mg/kg	0.436	0.029	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Cadmium, Total	0.523	J	mg/kg	0.872	0.086	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Calcium, Total	80800		mg/kg	87.2	30.5	20	06/21/18 20:37	06/22/18 12:38	EPA 3050B	1,6010C	PS
Chromium, Total	12.9		mg/kg	0.872	0.084	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Cobalt, Total	6.22		mg/kg	1.74	0.145	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Copper, Total	19.1		mg/kg	0.872	0.225	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Iron, Total	16800		mg/kg	4.36	0.788	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Lead, Total	8.53		mg/kg	4.36	0.234	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Magnesium, Total	15500		mg/kg	8.72	1.34	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Manganese, Total	390		mg/kg	0.872	0.139	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Mercury, Total	0.016	J	mg/kg	0.073	0.015	1	06/21/18 09:00	06/21/18 20:34	EPA 7471B	1,7471B	BV
Nickel, Total	15.0		mg/kg	2.18	0.211	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Potassium, Total	1150		mg/kg	218	12.6	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.74	0.225	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.872	0.247	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Sodium, Total	155	J	mg/kg	174	2.75	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.74	0.275	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Vanadium, Total	17.6		mg/kg	0.872	0.177	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB
Zinc, Total	59.8		mg/kg	4.36	0.256	2	06/21/18 20:37	06/22/18 06:27	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-11 Date Collected: 06/14/18 11:30

Client ID: SB-14 0-0.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	10200		mg/kg	8.60	2.32	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Antimony, Total	0.688	J	mg/kg	4.30	0.327	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Arsenic, Total	0.594	J	mg/kg	0.860	0.179	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Barium, Total	64.3		mg/kg	0.860	0.150	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Beryllium, Total	0.404	J	mg/kg	0.430	0.028	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Cadmium, Total	0.482	J	mg/kg	0.860	0.084	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Calcium, Total	60700		mg/kg	86.0	30.1	20	06/21/18 20:37	06/22/18 12:52	EPA 3050B	1,6010C	PS
Chromium, Total	15.1		mg/kg	0.860	0.083	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Cobalt, Total	5.42		mg/kg	1.72	0.143	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Copper, Total	17.4		mg/kg	0.860	0.222	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Iron, Total	15800		mg/kg	4.30	0.777	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Lead, Total	7.49		mg/kg	4.30	0.230	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Magnesium, Total	15100		mg/kg	8.60	1.32	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Manganese, Total	312		mg/kg	0.860	0.137	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Mercury, Total	0.018	J	mg/kg	0.070	0.015	1	06/21/18 09:00	06/21/18 20:36	EPA 7471B	1,7471B	BV
Nickel, Total	15.2		mg/kg	2.15	0.208	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Potassium, Total	1030		mg/kg	215	12.4	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.72	0.222	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.860	0.243	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Sodium, Total	150	J	mg/kg	172	2.71	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Thallium, Total	0.387	J	mg/kg	1.72	0.271	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Vanadium, Total	17.0		mg/kg	0.860	0.175	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB
Zinc, Total	57.5		mg/kg	4.30	0.252	2	06/21/18 20:37	06/22/18 06:31	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1822714
Project Number: 0437-017-001
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12
Client ID: SB-14 12-16'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/14/18 11:40
Date Received: 06/15/18
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	9020		mg/kg	9.36	2.53	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Antimony, Total	1.01	J	mg/kg	4.68	0.356	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Arsenic, Total	1.69		mg/kg	0.936	0.195	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Barium, Total	74.5		mg/kg	0.936	0.163	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Beryllium, Total	0.356	J	mg/kg	0.468	0.031	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Cadmium, Total	0.505	J	mg/kg	0.936	0.092	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Calcium, Total	65600		mg/kg	93.6	32.8	20	06/21/18 20:37	06/22/18 07:09	EPA 3050B	1,6010C	AB
Chromium, Total	14.1		mg/kg	0.936	0.090	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Cobalt, Total	5.29		mg/kg	1.87	0.155	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Copper, Total	16.6		mg/kg	0.936	0.241	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Iron, Total	16600		mg/kg	4.68	0.845	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Lead, Total	7.92		mg/kg	4.68	0.251	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Magnesium, Total	15900		mg/kg	9.36	1.44	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Manganese, Total	384		mg/kg	0.936	0.149	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Mercury, Total	0.018	J	mg/kg	0.076	0.016	1	06/21/18 09:00	06/21/18 19:49	EPA 7471B	1,7471B	BV
Nickel, Total	14.4		mg/kg	2.34	0.226	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Potassium, Total	1400		mg/kg	234	13.5	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.87	0.241	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.936	0.265	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Sodium, Total	176	J	mg/kg	187	2.95	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Thallium, Total	0.374	J	mg/kg	1.87	0.295	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Vanadium, Total	17.3		mg/kg	0.936	0.190	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB
Zinc, Total	74.8		mg/kg	4.68	0.274	2	06/21/18 20:37	06/22/18 04:21	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13 Date Collected: 06/14/18 12:00

Client ID: BLIND DUP Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	8320		mg/kg	8.80	2.38	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Antimony, Total	0.634	J	mg/kg	4.40	0.334	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Arsenic, Total	1.28		mg/kg	0.880	0.183	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Barium, Total	75.9		mg/kg	0.880	0.153	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Beryllium, Total	0.343	J	mg/kg	0.440	0.029	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Cadmium, Total	0.537	J	mg/kg	0.880	0.086	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Calcium, Total	85700		mg/kg	88.0	30.8	20	06/21/18 20:37	06/22/18 12:56	EPA 3050B	1,6010C	PS
Chromium, Total	13.0		mg/kg	0.880	0.085	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Cobalt, Total	6.03		mg/kg	1.76	0.146	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Copper, Total	18.6		mg/kg	0.880	0.227	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Iron, Total	16700		mg/kg	4.40	0.795	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Lead, Total	8.81		mg/kg	4.40	0.236	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Magnesium, Total	15100		mg/kg	8.80	1.36	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Manganese, Total	400		mg/kg	0.880	0.140	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Mercury, Total	0.017	J	mg/kg	0.073	0.015	1	06/21/18 09:00	06/21/18 20:38	EPA 7471B	1,7471B	BV
Nickel, Total	14.2		mg/kg	2.20	0.213	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Potassium, Total	1140		mg/kg	220	12.7	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.76	0.227	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.880	0.249	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Sodium, Total	154	J	mg/kg	176	2.77	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Thallium, Total	0.299	J	mg/kg	1.76	0.277	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Vanadium, Total	17.1		mg/kg	0.880	0.179	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB
Zinc, Total	64.6		mg/kg	4.40	0.258	2	06/21/18 20:37	06/22/18 06:36	EPA 3050B	1,6010C	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822714

Project Number: 0437-017-001 **Report Date:** 06/27/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-13 Batch: WG1128152-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	06/21/18 09:00	06/21/18 19:45	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-13 Batch: WG1128502-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Arsenic, Total	0.104	J	mg/kg	0.400	0.083	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Chromium, Total	0.052	J	mg/kg	0.400	0.038	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Iron, Total	0.684	J	mg/kg	2.00	0.361	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Manganese, Total	0.164	J	mg/kg	0.400	0.064	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.76	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Thallium, Total	0.156	J	mg/kg	0.800	0.126	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/21/18 20:37	06/22/18 04:12	1,6010C	AB

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822714
Report Date: 06/27/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-13 Batch: WG1128152-2 SRM Lot Number: D098-540								
Mercury, Total	91		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-13 Batch: WG1128502-2 SRM Lot Number: D098-540					
Aluminum, Total	79	-	47-153	-	
Antimony, Total	168	-	6-194	-	
Arsenic, Total	98	-	83-117	-	
Barium, Total	96	-	82-118	-	
Beryllium, Total	97	-	83-117	-	
Cadmium, Total	99	-	82-117	-	
Calcium, Total	95	-	81-118	-	
Chromium, Total	96	-	83-119	-	
Cobalt, Total	98	-	84-116	-	
Copper, Total	98	-	84-116	-	
Iron, Total	97	-	60-140	-	
Lead, Total	95	-	82-117	-	
Magnesium, Total	85	-	76-124	-	
Manganese, Total	94	-	82-118	-	
Nickel, Total	96	-	82-117	-	
Potassium, Total	87	-	69-131	-	
Selenium, Total	98	-	78-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	100	-	74-126	-	
Thallium, Total	100	-	80-119	-	
Vanadium, Total	95	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-13 Batch: WG1128502-2 SRM Lot Number: D098-540					
Zinc, Total	96	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1128152-3 WG1128152-4 QC Sample: L1822714-12 Client ID: SB-14 12-16'												
Mercury, Total	0.018J	0.148	0.178	120		0.180	116		80-120	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

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): 01-13 QC Batch ID: WG1128502-3 WG1128502-4 QC Sample: L1822714-12 Client ID: SB-14 12-16'												
Aluminum, Total	9020	185	10100	**584**	Q	9630	**327**	Q	75-125	5		20
Antimony, Total	1.01J	46.2	34.6	75		35.7	76		75-125	3		20
Arsenic, Total	1.69	11.1	15.2	122		10.9	82		75-125	**33**	Q	20
Barium, Total	74.5	185	236	87		226	81		75-125	4		20
Beryllium, Total	0.356J	4.62	4.13	89		4.01	86		75-125	3		20
Cadmium, Total	0.505J	4.71	4.20	89		4.23	89		75-125	1		20
Calcium, Total	65600	924	70500	**530**	Q	80400	**1590**	Q	75-125	13		20
Chromium, Total	14.1	18.5	29.3	82		29.2	81		75-125	0		20
Cobalt, Total	5.29	46.2	40.4	76		40.0	**74**	Q	75-125	1		20
Copper, Total	16.6	23.1	43.4	116		34.6	77		75-125	**23**	Q	20
Iron, Total	16600	92.4	20800	**4540**	Q	16100	**0**	Q	75-125	**25**	Q	20
Lead, Total	7.92	47.1	43.8	76		43.4	75		75-125	1		20
Magnesium, Total	15900	924	18100	**238**	Q	23100	**772**	Q	75-125	**24**	Q	20
Manganese, Total	384.	46.2	476	**199**	Q	467	**178**	Q	75-125	2		20
Nickel, Total	14.4	46.2	49.6	76		49.1	**74**	Q	75-125	1		20
Potassium, Total	1400	924	2510	120		2470	115		75-125	2		20
Selenium, Total	ND	11.1	7.24	**65**	Q	8.25	**74**	Q	75-125	13		20
Silver, Total	ND	27.7	25.5	92		25.6	92		75-125	0		20
Sodium, Total	176.J	924	1010	109		1000	107		75-125	1		20
Thallium, Total	0.374J	11.1	7.68	**69**	Q	8.04	**72**	Q	75-125	5		20
Vanadium, Total	17.3	46.2	61.0	94		56.5	84		75-125	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

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): 01-13 QC Batch ID: WG1128502-3 WG1128502-4 QC Sample: L1822714-12 Client ID: SB-14 12-16'									
Zinc, Total	74.8	46.2	110	76	111	78	75-125	1	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-01
Client ID: SB-9 0-3'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:20
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.1		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-02
Client ID: SB-9 4-8'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-03
Client ID: SB-10 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 13:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.6		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-04
Client ID: SB-10 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 13:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-05
Client ID: SB-11 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 14:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-06
Client ID: SB-11 16-20'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 15:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-07
Client ID: SB-12 0-4'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 09:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-08
Client ID: SB-12 4-8'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 09:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-09
Client ID: SB-13 0-1'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.7		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-10
Client ID: SB-13 8-12'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 10:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-11
Client ID: SB-14 0-0.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-12
Client ID: SB-14 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 11:40
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

SAMPLE RESULTS

Lab ID: L1822714-13
Client ID: BLIND DUP
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/14/18 12:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	06/16/18 12:47	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822714

Report Date: 06/27/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1126700-1 QC Sample: L1822714-12 Client ID: SB-14 12-16'						
Solids, Total	84.4	84.2	%	0		20

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822714-01A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-01B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-01C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-01G	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1822714-01H	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-01I	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-01J	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-01X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-01Y	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-01Z	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-02A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-02B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-02C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-02G	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1822714-02H	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-02I	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822714-02J	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14)
L1822714-02X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-02Y	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-02Z	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-03A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-03B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-03C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-03D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1822714-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-03F	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14)
L1822714-03G	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14)
L1822714-03X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-03Y	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-03Z	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-04A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-04B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-04C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-04G	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1822714-04H	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-04I	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-04J	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-04X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-04Y	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822714-04Z	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-05A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-05B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-05C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-05D	Plastic 2oz unpreserved for TS	A	NA		3.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-05E	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1822714-05X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-05Y	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-05Z	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-06A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-06B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-06C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-06G	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1822714-06H	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-06I	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-06J	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-06X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-06Y	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-06Z	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-07A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-07B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-07C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822714-07G	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1822714-07H	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-07I	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-07J	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-07X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-07Y	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-07Z	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-08A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-08B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-08C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-08D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1822714-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-08F	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14)
L1822714-08X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-08Y	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-08Z	Vial Water preserved split	A	NA		3.8	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-09A	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-09B	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-09C	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-09D	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

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Lab Number: L1822714
Report Date: 06/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822714-09E	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-09F	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14)
L1822714-09X	Vial MeOH preserved split	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-09Y	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-09Z	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-10A	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-10B	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-10C	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-10G	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L1822714-10H	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-10I	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-10J	Glass 250ml/8oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-10X	Vial MeOH preserved split	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-10Y	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-10Z	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:28	NYTCL-8260HLW-R2(14)
L1822714-11A	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-11B	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-11C	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-11D	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L1822714-11E	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
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Lab Number: L1822714
Report Date: 06/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822714-11F	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14)
L1822714-11X	Vial MeOH preserved split	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-11Y	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)
L1822714-11Z	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)
L1822714-12A	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12A1	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12A2	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12B	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12B1	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12B2	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12C	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12C1	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12C2	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12G	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L1822714-12G1	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L1822714-12G2	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L1822714-12H	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-12H1	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-12H2	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-12I	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days

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Report Date: 06/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822714-12I1	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-12I2	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-12J	Glass 250ml/8oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-12J1	Glass 250ml/8oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-12J2	Glass 250ml/8oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-12X	Vial MeOH preserved split	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12X1	Vial MeOH preserved split	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12X2	Vial MeOH preserved split	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-12Y	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)
L1822714-12Y1	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)
L1822714-12Y2	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)
L1822714-12Z	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)
L1822714-12Z1	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)
L1822714-12Z2	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)
L1822714-13A	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-13B	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-13C	5 gram Encore Sampler	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-13G	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L1822714-13H	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822714-13I	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-13J	Glass 250ml/8oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822714-13X	Vial MeOH preserved split	D	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1822714-13Y	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)
L1822714-13Z	Vial Water preserved split	D	NA		3.7	Y	Absent	16-JUN-18 08:54	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

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Lab Number: L1822714
Report Date: 06/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1822714
Project Number:	0437-017-001	**Report Date:**	06/27/18

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1822714
Project Number:	0437-017-001	**Report Date:**	06/27/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 06-16-2018

ALPHA Job #: L1822714

Client Information
Client: Benchmark Env Eng
Address: 2558 Hamburg Turnpike
Buffalo, NY
Phone: 716-856-0599
Fax:
Email:

Project Information
Project Name: 1585 Hertel Ave
Project Location: 1585 Hertel Ave
Project #: 0437-017-001
(Use Project name as Project #) ☑
Project Manager: Chris Borden
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:
CAT B Deliverables

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	Full List VOC	TCL SVOC	TAL Metals	PCB Pest, Herb	TICs - VOCs	TCLP for Solids	Total Bottle	Sample Specific Comments
22714-01	SB-9 0-3'	6/14/18	1220	S	RLO	V	V	V	V	V	V		
-02	SB-9 4-8'		1240			V	V	V			V		
-03	SB-10 0-0.5'		1330			V	V	V		V	V		
-04	SB-10 12-16'		1340			V	V	V	V		V		
-05	SB-11 0-0.5'		1440			V	V	V			V		
-06	SB-11 18-20'		1500			V	V	V	V		V		
-07	SB-12 0-4'		0930			V	V	V	V	V	V		
-08	SB-12 4-8'		0940			V	V	V			V		
-09	SB-13 0-1'		1030			V	V	V			V		
-10	SB-13 8-12'	↓	1040	↓	↓	V	V	V	V	V	V		

Container Type: E | A | A | A | | P
Preservative: A | 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
Chris Borden	6/15/18 7:15	Audrey Tilly AAL	6/15/18 15:15
Audrey Tilly AAL	6/15/18 16:00		

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 & CONSTANTS. (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

Page 2 of 2

Date Rec'd in Lab 06-16-2018

ALPHA Job # L1822714

Client Information

Client: Benchmark Env Eng
Address: 2558 Hamburg Turnpike
Buffalo NY
Phone: 716-856-0599
Fax:
Email:

Project Information

Project Name: 1585 Hertel Ave
Project Location: 1585 Hertel Ave
Project # 0437-017-001
(Use Project name as Project #) ☑
Project Manager: Chris Bruon
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:

CAT B Deliverables

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Full List VOC	TCL SVOC	TAL Metals	PCBs, Pest Herb	TICs VOCs	TCL SVOCs			Sample Specific Comments	Total Bottle
22714-11	SB-14 0-0.5'	6/14/18	1130	S	MD	V	V	V			V				
-12	SB-14 12-16'		1140			V	V	V	V		V				
-13	MS SB-14 12-16'		1140			V	V	V	V		V				
	MSD SB-14 12-16'		1140			V	V	V	V		V				
	BLIND DUP		1200			V	V	V	V		V				

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Container Type	E	A	A	A		P			
Preservative	A	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
Chris Bruon	6/15/18 3:15	Audrey Liley AAL	6/15/18 15:15
Audrey Liley AAL	6/15/18 16:00		6/16/18 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)

ANALYTICAL REPORT

Lab Number:	L1822718
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001
Report Date:	06/22/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1822718-01	MW-1 0-2'	SOIL	1585 HERTEL AVE.	06/15/18 08:10	06/15/18
L1822718-02	MW-1 8-12'	SOIL	1585 HERTEL AVE.	06/15/18 08:30	06/15/18
L1822718-03	MW-2 0-2'	SOIL	1585 HERTEL AVE.	06/15/18 09:00	06/15/18
L1822718-04	MW-2 12-16'	SOIL	1585 HERTEL AVE.	06/15/18 09:22	06/15/18
L1822718-05	MW-3 0-2'	SOIL	1585 HERTEL AVE.	06/15/18 10:00	06/15/18
L1822718-06	MW-3 4-8'	SOIL	1585 HERTEL AVE.	06/15/18 10:30	06/15/18
L1822718-07	MW-4 4-4.5'	SOIL	1585 HERTEL AVE.	06/15/18 11:30	06/15/18
L1822718-08	MW-4 8-10'	SOIL	1585 HERTEL AVE.	06/15/18 12:00	06/15/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

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: 1585 HERTEL AVE. **Lab Number:** L1822718
Project Number: 0437-017-001 **Report Date:** 06/22/18

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.

Semivolatile Organics

L1822718-08: The sample has elevated detection limits due to the dilution required by the sample matrix.

Pesticides

L1822718-01: The sample has elevated detection limits due to the dilution required by the sample matrix.

L1822718-07: The internal standard (IS) response for 1-bromo-2-nitrobenzene was above the acceptance criteria; however, the sample was not re-analyzed due to obvious interferences. The surrogate recovery is outside the method acceptance criteria for decachlorobiphenyl (19%) due to interference with the Internal Standard.

Total Metals

L1822718-01 through -08: 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 Cripps

Title: Technical Director/Representative Date: 06/22/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01 Date Collected: 06/15/18 08:10
Client ID: MW-1 0-2' Date Received: 06/15/18
Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 12:46
Analyst: MKS
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	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	0.34	1
Tetrachloroethene	ND		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	0.22	J	ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.3	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01 Date Collected: 06/15/18 08:10

Client ID: MW-1 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	1.7		ug/kg	1.3	0.22	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.35	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
Methyl Acetate	ND		ug/kg	5.0	1.2	1
Cyclohexane	ND		ug/kg	13	0.69	1
1,4-Dioxane	ND		ug/kg	130	44.	1
Freon-113	ND		ug/kg	5.0	0.88	1
Methyl cyclohexane	ND		ug/kg	5.0	0.76	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-02
Client ID: MW-1 8-12'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/15/18 08:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 13:11
Analyst: MKS
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	3.8	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	3.8	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	3.8	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	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-02 Date Collected: 06/15/18 08:30

Client ID: MW-1 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.18	J	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	8.0	J	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
Bromochloromethane	ND		ug/kg	1.9	0.19	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
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
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	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	3.8	0.89	1
Cyclohexane	ND		ug/kg	9.4	0.51	1
1,4-Dioxane	ND		ug/kg	94	33.	1
Freon-113	ND		ug/kg	3.8	0.65	1
Methyl cyclohexane	ND		ug/kg	3.8	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03
Client ID: MW-2 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 09:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 13:37
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	0.55	J	ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.26	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.22	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.73	1
Ethylbenzene	2.2		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.68	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03 Date Collected: 06/15/18 09:00

Client ID: MW-2 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	6.1		ug/kg	2.7	0.76	1
o-Xylene	0.96	J	ug/kg	1.4	0.39	1
cis-1,2-Dichloroethene	1.3	J	ug/kg	1.4	0.24	1
Styrene	ND		ug/kg	1.4	0.26	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	20		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.1	1
2-Butanone	3.7	J	ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
n-Butylbenzene	0.75	J	ug/kg	1.4	0.22	1
sec-Butylbenzene	0.47	J	ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	1.1	J	ug/kg	1.4	0.15	1
p-Isopropyltoluene	1.1	J	ug/kg	1.4	0.15	1
n-Propylbenzene	1.5		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	28		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	94		ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.4	1.3	1
Cyclohexane	ND		ug/kg	14	0.74	1
1,4-Dioxane	ND		ug/kg	140	47.	1
Freon-113	ND		ug/kg	5.4	0.94	1
Methyl cyclohexane	0.92	J	ug/kg	5.4	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-04
Client ID: MW-2 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 09:22
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 14:02
Analyst: MKS
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	0.16	J	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	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-04 Date Collected: 06/15/18 09:22

Client ID: MW-2 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.59	J	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	4.2	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
Bromochloromethane	ND		ug/kg	1.9	0.19	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
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
n-Propylbenzene	ND		ug/kg	0.94	0.16	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
1,3,5-Trimethylbenzene	0.18	J	ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	0.54	J	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
1,4-Dioxane	ND		ug/kg	94	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	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05
Client ID: MW-3 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 10:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 14:28
Analyst: MKS
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	5.2	0.91	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	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	0.42	J	ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05 Date Collected: 06/15/18 10:00

Client ID: MW-3 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	0.43	J	ug/kg	2.6	0.26	1
p/m-Xylene	1.8	J	ug/kg	2.6	0.74	1
o-Xylene	0.63	J	ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	0.27	J	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	13		ug/kg	13	6.3	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
Bromochloromethane	ND		ug/kg	2.6	0.27	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
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
Methyl Acetate	ND		ug/kg	5.2	1.2	1
Cyclohexane	ND		ug/kg	13	0.72	1
1,4-Dioxane	ND		ug/kg	130	46.	1
Freon-113	ND		ug/kg	5.2	0.91	1
Methyl cyclohexane	ND		ug/kg	5.2	0.79	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-06
Client ID: MW-3 4-8'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 10:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 14:53
Analyst: MKS
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	0.21	J	ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.70	0.28	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.98	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.23	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.82	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.63	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-06 Date Collected: 06/15/18 10:30

Client ID: MW-3 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	1.6	J	ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.78	1
o-Xylene	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	1.1	J	ug/kg	1.4	0.24	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.8	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
Methyl Acetate	ND		ug/kg	5.6	1.3	1
Cyclohexane	ND		ug/kg	14	0.76	1
1,4-Dioxane	ND		ug/kg	140	49.	1
Freon-113	ND		ug/kg	5.6	0.97	1
Methyl cyclohexane	ND		ug/kg	5.6	0.85	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07
Client ID: MW-4 4-4.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 15:19
Analyst: MKS
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.1	4.2	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.26	1
Chloroform	1.4	J	ug/kg	2.7	0.26	1
Carbon tetrachloride	ND		ug/kg	1.8	0.42	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.23	1
Dibromochloromethane	ND		ug/kg	1.8	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.49	1
Tetrachloroethene	ND		ug/kg	0.91	0.36	1
Chlorobenzene	ND		ug/kg	0.91	0.23	1
Trichlorofluoromethane	ND		ug/kg	7.3	1.3	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.47	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	0.30	1
Bromodichloromethane	ND		ug/kg	0.91	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.50	1
cis-1,3-Dichloropropene	ND		ug/kg	0.91	0.29	1
Bromoform	ND		ug/kg	7.3	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.91	0.30	1
Benzene	0.94		ug/kg	0.91	0.30	1
Toluene	4.0		ug/kg	1.8	0.99	1
Ethylbenzene	8.7		ug/kg	1.8	0.26	1
Chloromethane	ND		ug/kg	7.3	1.7	1
Bromomethane	ND		ug/kg	3.6	1.1	1
Vinyl chloride	ND		ug/kg	1.8	0.61	1
Chloroethane	ND		ug/kg	3.6	0.83	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.25	1
Trichloroethene	ND		ug/kg	0.91	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	0.26	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07 Date Collected: 06/15/18 11:30

Client ID: MW-4 4-4.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.6	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	0.31	1
Methyl tert butyl ether	ND		ug/kg	3.6	0.37	1
p/m-Xylene	32		ug/kg	3.6	1.0	1
o-Xylene	19		ug/kg	1.8	0.53	1
cis-1,2-Dichloroethene	11		ug/kg	1.8	0.32	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	18	1.7	1
Acetone	31		ug/kg	18	8.8	1
Carbon disulfide	ND		ug/kg	18	8.3	1
2-Butanone	5.9	J	ug/kg	18	4.1	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.3	1
2-Hexanone	ND		ug/kg	18	2.2	1
Bromochloromethane	ND		ug/kg	3.6	0.38	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.51	1
n-Butylbenzene	1.8		ug/kg	1.8	0.30	1
sec-Butylbenzene	0.61	J	ug/kg	1.8	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	1.8	1
Isopropylbenzene	1.4	J	ug/kg	1.8	0.20	1
p-Isopropyltoluene	0.43	J	ug/kg	1.8	0.20	1
n-Propylbenzene	5.4		ug/kg	1.8	0.31	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.6	0.59	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.6	0.50	1
1,3,5-Trimethylbenzene	13		ug/kg	3.6	0.35	1
1,2,4-Trimethylbenzene	62		ug/kg	3.6	0.61	1
Methyl Acetate	ND		ug/kg	7.3	1.7	1
Cyclohexane	2.2	J	ug/kg	18	1.0	1
1,4-Dioxane	ND		ug/kg	180	64.	1
Freon-113	ND		ug/kg	7.3	1.3	1
Methyl cyclohexane	1.6	J	ug/kg	7.3	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-08
Client ID: MW-4 8-10'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 12:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/21/18 12:20
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	500	230	1
1,1-Dichloroethane	ND		ug/kg	100	14.	1
Chloroform	ND		ug/kg	150	14.	1
Carbon tetrachloride	ND		ug/kg	100	23.	1
1,2-Dichloropropane	ND		ug/kg	100	12.	1
Dibromochloromethane	ND		ug/kg	100	14.	1
1,1,2-Trichloroethane	ND		ug/kg	100	27.	1
Tetrachloroethene	ND		ug/kg	50	20.	1
Chlorobenzene	ND		ug/kg	50	13.	1
Trichlorofluoromethane	ND		ug/kg	400	70.	1
1,2-Dichloroethane	ND		ug/kg	100	26.	1
1,1,1-Trichloroethane	ND		ug/kg	50	17.	1
Bromodichloromethane	ND		ug/kg	50	11.	1
trans-1,3-Dichloropropene	ND		ug/kg	100	27.	1
cis-1,3-Dichloropropene	ND		ug/kg	50	16.	1
Bromoform	ND		ug/kg	400	25.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	17.	1
Benzene	65		ug/kg	50	17.	1
Toluene	560		ug/kg	100	54.	1
Ethylbenzene	1600		ug/kg	100	14.	1
Chloromethane	ND		ug/kg	400	93.	1
Bromomethane	ND		ug/kg	200	58.	1
Vinyl chloride	ND		ug/kg	100	34.	1
Chloroethane	ND		ug/kg	200	45.	1
1,1-Dichloroethene	ND		ug/kg	100	24.	1
trans-1,2-Dichloroethene	ND		ug/kg	150	14.	1
Trichloroethene	ND		ug/kg	50	14.	1
1,2-Dichlorobenzene	ND		ug/kg	200	14.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-08 Date Collected: 06/15/18 12:00

Client ID: MW-4 8-10' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	200	15.	1
1,4-Dichlorobenzene	ND		ug/kg	200	17.	1
Methyl tert butyl ether	ND		ug/kg	200	20.	1
p/m-Xylene	5900		ug/kg	200	56.	1
o-Xylene	2800		ug/kg	100	29.	1
cis-1,2-Dichloroethene	300		ug/kg	100	18.	1
Styrene	ND		ug/kg	100	20.	1
Dichlorodifluoromethane	ND		ug/kg	1000	92.	1
Acetone	ND		ug/kg	1000	480	1
Carbon disulfide	ND		ug/kg	1000	460	1
2-Butanone	ND		ug/kg	1000	220	1
4-Methyl-2-pentanone	ND		ug/kg	1000	130	1
2-Hexanone	ND		ug/kg	1000	120	1
Bromochloromethane	ND		ug/kg	200	20.	1
1,2-Dibromoethane	ND		ug/kg	100	28.	1
n-Butylbenzene	320		ug/kg	100	17.	1
sec-Butylbenzene	110		ug/kg	100	15.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	300	100	1
Isopropylbenzene	240		ug/kg	100	11.	1
p-Isopropyltoluene	68	J	ug/kg	100	11.	1
n-Propylbenzene	910		ug/kg	100	17.	1
1,2,3-Trichlorobenzene	ND		ug/kg	200	32.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	27.	1
1,3,5-Trimethylbenzene	1900		ug/kg	200	19.	1
1,2,4-Trimethylbenzene	7900		ug/kg	200	33.	1
Methyl Acetate	ND		ug/kg	400	95.	1
Cyclohexane	490	J	ug/kg	1000	54.	1
1,4-Dioxane	ND		ug/kg	10000	3500	1
Freon-113	ND		ug/kg	400	69.	1
Methyl cyclohexane	360	J	ug/kg	400	60.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-07 Batch: WG1128317-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-07 Batch: WG1128317-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-07 Batch: WG1128317-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG1128350-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG1128350-5					
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.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
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
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
1,4-Dioxane	ND		ug/kg	5000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/18 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG1128350-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-07 Batch: WG1128317-3 WG1128317-4								
Methylene chloride	117		116		70-130	1		30
1,1-Dichloroethane	119		117		70-130	2		30
Chloroform	114		113		70-130	1		30
Carbon tetrachloride	113		113		70-130	0		30
1,2-Dichloropropane	116		117		70-130	1		30
Dibromochloromethane	94		96		70-130	2		30
1,1,2-Trichloroethane	101		102		70-130	1		30
Tetrachloroethene	98		98		70-130	0		30
Chlorobenzene	99		99		70-130	0		30
Trichlorofluoromethane	**140**	Q	138		70-139	1		30
1,2-Dichloroethane	114		114		70-130	0		30
1,1,1-Trichloroethane	116		115		70-130	1		30
Bromodichloromethane	110		110		70-130	0		30
trans-1,3-Dichloropropene	102		102		70-130	0		30
cis-1,3-Dichloropropene	112		112		70-130	0		30
Bromoform	87		88		70-130	1		30
1,1,2,2-Tetrachloroethane	96		98		70-130	2		30
Benzene	113		112		70-130	1		30
Toluene	100		100		70-130	0		30
Ethylbenzene	104		104		70-130	0		30
Chloromethane	119		117		52-130	2		30
Bromomethane	130		135		57-147	4		30
Vinyl chloride	**132**	Q	**132**	Q	67-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-07 Batch: WG1128317-3 WG1128317-4								
Chloroethane	136		135		50-151	1		30
1,1-Dichloroethene	112		114		65-135	2		30
trans-1,2-Dichloroethene	112		112		70-130	0		30
Trichloroethene	112		112		70-130	0		30
1,2-Dichlorobenzene	94		95		70-130	1		30
1,3-Dichlorobenzene	96		96		70-130	0		30
1,4-Dichlorobenzene	95		96		70-130	1		30
Methyl tert butyl ether	108		109		66-130	1		30
p/m-Xylene	102		102		70-130	0		30
o-Xylene	101		101		70-130	0		30
cis-1,2-Dichloroethene	109		109		70-130	0		30
Styrene	102		103		70-130	1		30
Dichlorodifluoromethane	115		114		30-146	1		30
Acetone	102		102		54-140	0		30
Carbon disulfide	112		111		59-130	1		30
2-Butanone	104		104		70-130	0		30
4-Methyl-2-pentanone	97		99		70-130	2		30
2-Hexanone	87		88		70-130	1		30
Bromochloromethane	107		106		70-130	1		30
1,2-Dibromoethane	97		97		70-130	0		30
n-Butylbenzene	108		109		70-130	1		30
sec-Butylbenzene	104		104		70-130	0		30
1,2-Dibromo-3-chloropropane	78		79		68-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-07 Batch: WG1128317-3 WG1128317-4								
Isopropylbenzene	101		101		70-130	0		30
p-Isopropyltoluene	101		101		70-130	0		30
n-Propylbenzene	105		105		70-130	0		30
1,2,3-Trichlorobenzene	91		90		70-130	1		30
1,2,4-Trichlorobenzene	91		91		70-130	0		30
1,3,5-Trimethylbenzene	100		101		70-130	1		30
1,2,4-Trimethylbenzene	99		99		70-130	0		30
Methyl Acetate	109		108		51-146	1		30
Cyclohexane	123		123		59-142	0		30
1,4-Dioxane	98		100		65-136	2		30
Freon-113	118		117		50-139	1		30
Methyl cyclohexane	118		117		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	99		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1128350-3 WG1128350-4								
Methylene chloride	117		116		70-130	1		30
1,1-Dichloroethane	119		117		70-130	2		30
Chloroform	114		113		70-130	1		30
Carbon tetrachloride	113		113		70-130	0		30
1,2-Dichloropropane	116		117		70-130	1		30
Dibromochloromethane	94		96		70-130	2		30
1,1,2-Trichloroethane	101		102		70-130	1		30
Tetrachloroethene	98		98		70-130	0		30
Chlorobenzene	99		99		70-130	0		30
Trichlorofluoromethane	**140**	Q	138		70-139	1		30
1,2-Dichloroethane	114		114		70-130	0		30
1,1,1-Trichloroethane	116		115		70-130	1		30
Bromodichloromethane	110		110		70-130	0		30
trans-1,3-Dichloropropene	102		102		70-130	0		30
cis-1,3-Dichloropropene	112		112		70-130	0		30
Bromoform	87		88		70-130	1		30
1,1,2,2-Tetrachloroethane	96		98		70-130	2		30
Benzene	113		112		70-130	1		30
Toluene	100		100		70-130	0		30
Ethylbenzene	104		104		70-130	0		30
Chloromethane	119		117		52-130	2		30
Bromomethane	130		135		57-147	4		30
Vinyl chloride	**132**	Q	**132**	Q	67-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1128350-3 WG1128350-4								
Chloroethane	136		135		50-151	1		30
1,1-Dichloroethene	112		114		65-135	2		30
trans-1,2-Dichloroethene	112		112		70-130	0		30
Trichloroethene	112		112		70-130	0		30
1,2-Dichlorobenzene	94		95		70-130	1		30
1,3-Dichlorobenzene	96		96		70-130	0		30
1,4-Dichlorobenzene	95		96		70-130	1		30
Methyl tert butyl ether	108		109		66-130	1		30
p/m-Xylene	102		102		70-130	0		30
o-Xylene	101		101		70-130	0		30
cis-1,2-Dichloroethene	109		109		70-130	0		30
Styrene	102		103		70-130	1		30
Dichlorodifluoromethane	115		114		30-146	1		30
Acetone	102		102		54-140	0		30
Carbon disulfide	112		111		59-130	1		30
2-Butanone	104		104		70-130	0		30
4-Methyl-2-pentanone	97		99		70-130	2		30
2-Hexanone	87		88		70-130	1		30
Bromochloromethane	107		106		70-130	1		30
1,2-Dibromoethane	97		97		70-130	0		30
n-Butylbenzene	108		109		70-130	1		30
sec-Butylbenzene	104		104		70-130	0		30
1,2-Dibromo-3-chloropropane	78		79		68-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1128350-3 WG1128350-4								
Isopropylbenzene	101		101		70-130	0		30
p-Isopropyltoluene	101		101		70-130	0		30
n-Propylbenzene	105		105		70-130	0		30
1,2,3-Trichlorobenzene	91		90		70-130	1		30
1,2,4-Trichlorobenzene	91		91		70-130	0		30
1,3,5-Trimethylbenzene	100		101		70-130	1		30
1,2,4-Trimethylbenzene	99		99		70-130	0		30
Methyl Acetate	109		108		51-146	1		30
Cyclohexane	123		123		59-142	0		30
1,4-Dioxane	98		100		65-136	2		30
Freon-113	118		117		50-139	1		30
Methyl cyclohexane	118		117		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	99		100		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01
Client ID: MW-1 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 08:10
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/21/18 02:27
Analyst: EK
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	59.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	75.	1
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01 Date Collected: 06/15/18 08:10

Client ID: MW-1 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	52	J	ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	35	J	ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	47	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	33	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	91.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	33.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	73.	1
2-Nitrophenol	ND		ug/kg	480	83.	1
4-Nitrophenol	ND		ug/kg	310	90.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	110	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Carbazole	ND		ug/kg	220	21.	1
Atrazine	ND		ug/kg	180	77.	1
Benzaldehyde	ND		ug/kg	290	60.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01 Date Collected: 06/15/18 08:10

Client ID: MW-1 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	220	67.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	220	45.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	65		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-02
Client ID: MW-1 8-12'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 08:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 22:11
Analyst: EK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

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	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	ND		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	ND		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	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	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	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-02 Date Collected: 06/15/18 08:30

Client ID: MW-1 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	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	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	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	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	75.	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	ND		ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	ND		ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-02 Date Collected: 06/15/18 08:30

Client ID: MW-1 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	64		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	62		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03
Client ID: MW-2 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 09:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 21:20
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		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	ND		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	ND		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	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03 Date Collected: 06/15/18 09:00

Client ID: MW-2 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	45.	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	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		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	65.	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	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	ND		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	68.	1
Benzaldehyde	ND		ug/kg	260	53.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03 Date Collected: 06/15/18 09:00

Client ID: MW-2 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	55		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	60		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-04
Client ID: MW-2 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 09:22
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 23:28
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

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	49	J	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	ND		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	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	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-04 Date Collected: 06/15/18 09:22

Client ID: MW-2 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	ND		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	38	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	41	J	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	ND		ug/kg	190	18.	1
2-Methylnaphthalene	34	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	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	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	65.	1
Benzaldehyde	ND		ug/kg	250	50.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-04 Date Collected: 06/15/18 09:22

Client ID: MW-2 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	68		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	76		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05
Client ID: MW-3 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 10:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 21:45
Analyst: EK
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

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	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	23	J	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	ND		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	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	69.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05 Date Collected: 06/15/18 10:00

Client ID: MW-3 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	22	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	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	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	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	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	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	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	71.	1
Benzaldehyde	ND		ug/kg	270	55.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05 Date Collected: 06/15/18 10:00

Client ID: MW-3 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	61		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	62		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-06
Client ID: MW-3 4-8'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 10:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/20/18 22:37
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

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	32.	1
Fluoranthene	89	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	24.	1
Naphthalene	ND		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	65.	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	64.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	52	J	ug/kg	110	21.	1
Benzo(a)pyrene	52	J	ug/kg	150	46.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-06 Date Collected: 06/15/18 10:30

Client ID: MW-3 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	77	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	52	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	43	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	42	J	ug/kg	150	26.	1
Pyrene	83	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	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	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	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: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-06 Date Collected: 06/15/18 10:30

Client ID: MW-3 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	58		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	63		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07
Client ID: MW-4 4-4.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/21/18 02:44
Analyst: EK
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

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	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	ND		ug/kg	120	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	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	38	J	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	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	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07 Date Collected: 06/15/18 11:30

Client ID: MW-4 4-4.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	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	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	27	J	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	63.	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	ND		ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	52.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07 Date Collected: 06/15/18 11:30

Client ID: MW-4 4-4.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	63		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	74		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-08 D
Client ID: MW-4 8-10'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 12:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/22/18 03:26
Analyst: PS
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	790	100	5
Hexachlorobenzene	ND		ug/kg	590	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	890	130	5
2-Chloronaphthalene	ND		ug/kg	980	98.	5
3,3'-Dichlorobenzidine	ND		ug/kg	980	260	5
2,4-Dinitrotoluene	ND		ug/kg	980	200	5
2,6-Dinitrotoluene	ND		ug/kg	980	170	5
Fluoranthene	420	J	ug/kg	590	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	980	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	980	150	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	170	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	99.	5
Hexachlorobutadiene	ND		ug/kg	980	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2800	890	5
Hexachloroethane	ND		ug/kg	790	160	5
Isophorone	ND		ug/kg	890	130	5
Naphthalene	900	J	ug/kg	980	120	5
Nitrobenzene	ND		ug/kg	890	140	5
NDPA/DPA	ND		ug/kg	790	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	980	150	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	980	340	5
Butyl benzyl phthalate	ND		ug/kg	980	250	5
Di-n-butylphthalate	ND		ug/kg	980	190	5
Di-n-octylphthalate	ND		ug/kg	980	330	5
Diethyl phthalate	ND		ug/kg	980	91.	5
Dimethyl phthalate	ND		ug/kg	980	210	5
Benzo(a)anthracene	270	J	ug/kg	590	110	5
Benzo(a)pyrene	280	J	ug/kg	790	240	5

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-08 D Date Collected: 06/15/18 12:00
Client ID: MW-4 8-10' Date Received: 06/15/18
Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	350	J	ug/kg	590	160	5
Benzo(k)fluoranthene	ND		ug/kg	590	160	5
Chrysene	250	J	ug/kg	590	100	5
Acenaphthylene	ND		ug/kg	790	150	5
Anthracene	ND		ug/kg	590	190	5
Benzo(ghi)perylene	360	J	ug/kg	790	120	5
Fluorene	ND		ug/kg	980	96.	5
Phenanthrene	310	J	ug/kg	590	120	5
Dibenzo(a,h)anthracene	ND		ug/kg	590	110	5
Indeno(1,2,3-cd)pyrene	230	J	ug/kg	790	140	5
Pyrene	440	J	ug/kg	590	98.	5
Biphenyl	ND		ug/kg	2200	230	5
4-Chloroaniline	ND		ug/kg	980	180	5
2-Nitroaniline	ND		ug/kg	980	190	5
3-Nitroaniline	ND		ug/kg	980	180	5
4-Nitroaniline	ND		ug/kg	980	410	5
Dibenzofuran	ND		ug/kg	980	93.	5
2-Methylnaphthalene	1400		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	980	100	5
Acetophenone	ND		ug/kg	980	120	5
2,4,6-Trichlorophenol	ND		ug/kg	590	190	5
p-Chloro-m-cresol	ND		ug/kg	980	150	5
2-Chlorophenol	ND		ug/kg	980	120	5
2,4-Dichlorophenol	ND		ug/kg	890	160	5
2,4-Dimethylphenol	ND		ug/kg	980	320	5
2-Nitrophenol	ND		ug/kg	2100	370	5
4-Nitrophenol	ND		ug/kg	1400	400	5
2,4-Dinitrophenol	ND		ug/kg	4700	460	5
4,6-Dinitro-o-cresol	ND		ug/kg	2600	470	5
Pentachlorophenol	ND		ug/kg	790	220	5
Phenol	ND		ug/kg	980	150	5
2-Methylphenol	ND		ug/kg	980	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5
2,4,5-Trichlorophenol	ND		ug/kg	980	190	5
Carbazole	ND		ug/kg	980	96.	5
Atrazine	ND		ug/kg	790	340	5
Benzaldehyde	ND		ug/kg	1300	260	5

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-08 D Date Collected: 06/15/18 12:00
Client ID: MW-4 8-10' Date Received: 06/15/18
Sample Location: 1585 HERTEL AVE. 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	980	300	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	980	200	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	44		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	68		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/20/18 18:01
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1127606-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	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	99	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	27.
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	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/20/18 18:01
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1127606-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	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	99	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	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/20/18 18:01
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1127606-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	60		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1127606-2 WG1127606-3								
Acenaphthene	62		56		31-137	10		50
Hexachlorobenzene	59		51		40-140	15		50
Bis(2-chloroethyl)ether	61		57		40-140	7		50
2-Chloronaphthalene	63		57		40-140	10		50
3,3'-Dichlorobenzidine	52		45		40-140	14		50
2,4-Dinitrotoluene	69		62		40-132	11		50
2,6-Dinitrotoluene	77		69		40-140	11		50
Fluoranthene	65		57		40-140	13		50
4-Chlorophenyl phenyl ether	61		54		40-140	12		50
4-Bromophenyl phenyl ether	62		54		40-140	14		50
Bis(2-chloroisopropyl)ether	65		59		40-140	10		50
Bis(2-chloroethoxy)methane	65		58		40-117	11		50
Hexachlorobutadiene	56		52		40-140	7		50
Hexachlorocyclopentadiene	54		49		40-140	10		50
Hexachloroethane	59		54		40-140	9		50
Isophorone	65		59		40-140	10		50
Naphthalene	60		55		40-140	9		50
Nitrobenzene	67		62		40-140	8		50
NDPA/DPA	65		57		36-157	13		50
n-Nitrosodi-n-propylamine	65		59		32-121	10		50
Bis(2-ethylhexyl)phthalate	70		62		40-140	12		50
Butyl benzyl phthalate	75		64		40-140	16		50
Di-n-butylphthalate	68		59		40-140	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1127606-2 WG1127606-3								
Di-n-octylphthalate	74		66		40-140	11		50
Diethyl phthalate	65		57		40-140	13		50
Dimethyl phthalate	65		58		40-140	11		50
Benzo(a)anthracene	63		57		40-140	10		50
Benzo(a)pyrene	65		60		40-140	8		50
Benzo(b)fluoranthene	64		57		40-140	12		50
Benzo(k)fluoranthene	63		57		40-140	10		50
Chrysene	61		55		40-140	10		50
Acenaphthylene	66		60		40-140	10		50
Anthracene	64		57		40-140	12		50
Benzo(ghi)perylene	63		57		40-140	10		50
Fluorene	64		57		40-140	12		50
Phenanthrene	62		56		40-140	10		50
Dibenzo(a,h)anthracene	62		55		40-140	12		50
Indeno(1,2,3-cd)pyrene	64		58		40-140	10		50
Pyrene	64		57		35-142	12		50
Biphenyl	65		59		54-104	10		50
4-Chloroaniline	53		48		40-140	10		50
2-Nitroaniline	79		71		47-134	11		50
3-Nitroaniline	66		60		26-129	10		50
4-Nitroaniline	73		64		41-125	13		50
Dibenzofuran	61		54		40-140	12		50
2-Methylnaphthalene	63		58		40-140	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1127606-2 WG1127606-3								
1,2,4,5-Tetrachlorobenzene	62		56		40-117	10		50
Acetophenone	62		58		14-144	7		50
2,4,6-Trichlorophenol	69		62		30-130	11		50
p-Chloro-m-cresol	68		62		26-103	9		50
2-Chlorophenol	64		58		25-102	10		50
2,4-Dichlorophenol	66		59		30-130	11		50
2,4-Dimethylphenol	68		62		30-130	9		50
2-Nitrophenol	80		72		30-130	11		50
4-Nitrophenol	79		68		11-114	15		50
2,4-Dinitrophenol	59		52		4-130	13		50
4,6-Dinitro-o-cresol	82		70		10-130	16		50
Pentachlorophenol	44		38		17-109	15		50
Phenol	62		57		26-90	8		50
2-Methylphenol	67		59		30-130.	13		50
3-Methylphenol/4-Methylphenol	67		61		30-130	9		50
2,4,5-Trichlorophenol	68		62		30-130	9		50
Carbazole	64		57		54-128	12		50
Atrazine	71		60		40-140	17		50
Benzaldehyde	60		54		40-140	11		50
Caprolactam	76		69		15-130	10		50
2,3,4,6-Tetrachlorophenol	66		59		40-140	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1127606-2 WG1127606-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	66		59		25-120
Phenol-d6	66		59		10-120
Nitrobenzene-d5	69		61		23-120
2-Fluorobiphenyl	64		56		30-120
2,4,6-Tribromophenol	65		56		10-136
4-Terphenyl-d14	65		55		18-120

PCBS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01
Client ID: MW-1 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 08:10
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/21/18 19:39
Analyst: HT
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:53
Cleanup Method: EPA 3665A
Cleanup Date: 06/20/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.9	4.98	1	A
Aroclor 1221	ND		ug/kg	43.9	6.68	1	A
Aroclor 1232	ND		ug/kg	43.9	4.32	1	A
Aroclor 1242	ND		ug/kg	43.9	5.37	1	A
Aroclor 1248	ND		ug/kg	43.9	4.92	1	A
Aroclor 1254	ND		ug/kg	43.9	3.58	1	A
Aroclor 1260	8.65	J	ug/kg	43.9	4.58	1	B
Aroclor 1262	ND		ug/kg	43.9	3.61	1	A
Aroclor 1268	ND		ug/kg	43.9	3.11	1	A
PCBs, Total	8.65	J	ug/kg	43.9	3.11	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03
Client ID: MW-2 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 09:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/21/18 19:52
Analyst: HT
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:53
Cleanup Method: EPA 3665A
Cleanup Date: 06/20/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.1	4.43	1	A
Aroclor 1221	ND		ug/kg	39.1	5.95	1	A
Aroclor 1232	ND		ug/kg	39.1	3.85	1	A
Aroclor 1242	ND		ug/kg	39.1	4.78	1	A
Aroclor 1248	ND		ug/kg	39.1	4.38	1	A
Aroclor 1254	ND		ug/kg	39.1	3.19	1	A
Aroclor 1260	ND		ug/kg	39.1	4.08	1	A
Aroclor 1262	ND		ug/kg	39.1	3.21	1	A
Aroclor 1268	ND		ug/kg	39.1	2.77	1	A
PCBs, Total	ND		ug/kg	39.1	2.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05
Client ID: MW-3 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 10:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/21/18 20:04
Analyst: HT
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:53
Cleanup Method: EPA 3665A
Cleanup Date: 06/20/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.4	4.58	1	A
Aroclor 1221	ND		ug/kg	40.4	6.15	1	A
Aroclor 1232	ND		ug/kg	40.4	3.98	1	A
Aroclor 1242	ND		ug/kg	40.4	4.95	1	A
Aroclor 1248	ND		ug/kg	40.4	4.54	1	A
Aroclor 1254	3.92	J	ug/kg	40.4	3.30	1	B
Aroclor 1260	ND		ug/kg	40.4	4.22	1	A
Aroclor 1262	ND		ug/kg	40.4	3.32	1	A
Aroclor 1268	ND		ug/kg	40.4	2.86	1	A
PCBs, Total	3.92	J	ug/kg	40.4	2.86	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07
Client ID: MW-4 4-4.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/21/18 20:16
Analyst: HT
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:53
Cleanup Method: EPA 3665A
Cleanup Date: 06/20/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.3	4.34	1	A
Aroclor 1221	ND		ug/kg	38.3	5.83	1	A
Aroclor 1232	ND		ug/kg	38.3	3.77	1	A
Aroclor 1242	ND		ug/kg	38.3	4.69	1	A
Aroclor 1248	ND		ug/kg	38.3	4.30	1	A
Aroclor 1254	4.43	J	ug/kg	38.3	3.13	1	B
Aroclor 1260	ND		ug/kg	38.3	4.00	1	B
Aroclor 1262	ND		ug/kg	38.3	3.15	1	A
Aroclor 1268	ND		ug/kg	38.3	2.71	1	A
PCBs, Total	4.43	J	ug/kg	38.3	2.71	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/19/18 17:01
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 06/19/18 03:37
Cleanup Method: EPA 3665A
Cleanup Date: 06/19/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03,05,07 Batch: WG1127290-1						
Aroclor 1016	ND		ug/kg	33.1	3.75	A
Aroclor 1221	ND		ug/kg	33.1	5.04	A
Aroclor 1232	ND		ug/kg	33.1	3.26	A
Aroclor 1242	ND		ug/kg	33.1	4.05	A
Aroclor 1248	ND		ug/kg	33.1	3.71	A
Aroclor 1254	ND		ug/kg	33.1	2.70	A
Aroclor 1260	ND		ug/kg	33.1	3.45	A
Aroclor 1262	ND		ug/kg	33.1	2.72	A
Aroclor 1268	ND		ug/kg	33.1	2.34	A
PCBs, Total	ND		ug/kg	33.1	2.34	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03,05,07 Batch: WG1127290-2 WG1127290-3									
Aroclor 1016	74		80		40-140	8		50	A
Aroclor 1260	73		76		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		87		30-150	A
Decachlorobiphenyl	67		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		87		30-150	B
Decachlorobiphenyl	72		74		30-150	B

PESTICIDES

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01
Client ID: MW-1 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 08:10
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/21/18 18:13
Analyst: KB
Percent Solids: 75%
Methylation Date: 06/20/18 21:28

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	220	13.8	1	A
2,4,5-T	ND		ug/kg	220	6.82	1	A
2,4,5-TP (Silvex)	ND		ug/kg	220	5.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	104		30-150	A
DCAA	90		30-150	B

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01 D
Client ID: MW-1 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 08:10
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/21/18 22:38
Analyst: KEG
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:43
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	10.4	2.04	5	A
Lindane	ND		ug/kg	4.33	1.94	5	A
Alpha-BHC	ND		ug/kg	4.33	1.23	5	A
Beta-BHC	ND		ug/kg	10.4	3.94	5	A
Heptachlor	ND		ug/kg	5.20	2.33	5	A
Aldrin	ND		ug/kg	10.4	3.66	5	A
Heptachlor epoxide	ND		ug/kg	19.5	5.85	5	A
Endrin	ND		ug/kg	4.33	1.78	5	A
Endrin aldehyde	ND		ug/kg	13.0	4.55	5	A
Endrin ketone	ND		ug/kg	10.4	2.68	5	A
Dieldrin	ND		ug/kg	6.50	3.25	5	A
4,4'-DDE	ND		ug/kg	10.4	2.40	5	A
4,4'-DDD	ND		ug/kg	10.4	3.71	5	A
4,4'-DDT	ND		ug/kg	19.5	8.36	5	A
Endosulfan I	ND		ug/kg	10.4	2.46	5	A
Endosulfan II	ND		ug/kg	10.4	3.47	5	A
Endosulfan sulfate	ND		ug/kg	4.33	2.06	5	A
Methoxychlor	ND		ug/kg	19.5	6.06	5	A
Toxaphene	ND		ug/kg	195	54.6	5	A
cis-Chlordane	ND		ug/kg	13.0	3.62	5	A
trans-Chlordane	ND		ug/kg	13.0	3.43	5	A
Chlordane	ND		ug/kg	84.5	34.4	5	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01 D
Client ID: MW-1 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 08:10
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	**158**	Q	30-150	A
Decachlorobiphenyl	81		30-150	A

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03
Client ID: MW-2 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 09:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/21/18 22:25
Analyst: KEG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:43
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.87	0.366	1	A
Lindane	ND		ug/kg	0.779	0.348	1	A
Alpha-BHC	ND		ug/kg	0.779	0.221	1	A
Beta-BHC	ND		ug/kg	1.87	0.709	1	A
Heptachlor	ND		ug/kg	0.934	0.419	1	A
Aldrin	ND		ug/kg	1.87	0.658	1	A
Heptachlor epoxide	ND		ug/kg	3.50	1.05	1	A
Endrin	ND		ug/kg	0.779	0.319	1	A
Endrin aldehyde	ND		ug/kg	2.34	0.818	1	A
Endrin ketone	ND		ug/kg	1.87	0.481	1	A
Dieldrin	ND		ug/kg	1.17	0.584	1	A
4,4'-DDE	ND		ug/kg	1.87	0.432	1	A
4,4'-DDD	ND		ug/kg	1.87	0.666	1	A
4,4'-DDT	ND		ug/kg	3.50	1.50	1	A
Endosulfan I	ND		ug/kg	1.87	0.442	1	A
Endosulfan II	ND		ug/kg	1.87	0.624	1	A
Endosulfan sulfate	ND		ug/kg	0.779	0.371	1	A
Methoxychlor	ND		ug/kg	3.50	1.09	1	A
Toxaphene	ND		ug/kg	35.0	9.81	1	A
cis-Chlordane	ND		ug/kg	2.34	0.651	1	A
trans-Chlordane	ND		ug/kg	2.34	0.617	1	A
Chlordane	ND		ug/kg	15.2	6.19	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03 Date Collected: 06/15/18 09:00

Client ID: MW-2 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03
Client ID: MW-2 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 09:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/21/18 18:32
Analyst: KB
Percent Solids: 84%
Methylation Date: 06/20/18 21:28

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	12.3	1	A
2,4,5-T	ND		ug/kg	196	6.07	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	5.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	86		30-150	B

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05
Client ID: MW-3 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 10:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/21/18 22:12
Analyst: KEG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:43
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.91	0.374	1	A
Lindane	ND		ug/kg	0.795	0.355	1	A
Alpha-BHC	ND		ug/kg	0.795	0.226	1	A
Beta-BHC	ND		ug/kg	1.91	0.723	1	A
Heptachlor	ND		ug/kg	0.954	0.428	1	A
Aldrin	ND		ug/kg	1.91	0.672	1	A
Heptachlor epoxide	ND		ug/kg	3.58	1.07	1	A
Endrin	ND		ug/kg	0.795	0.326	1	A
Endrin aldehyde	ND		ug/kg	2.38	0.835	1	A
Endrin ketone	ND		ug/kg	1.91	0.491	1	A
Dieldrin	ND		ug/kg	1.19	0.596	1	A
4,4'-DDE	ND		ug/kg	1.91	0.441	1	A
4,4'-DDD	ND		ug/kg	1.91	0.680	1	A
4,4'-DDT	ND		ug/kg	3.58	1.53	1	A
Endosulfan I	ND		ug/kg	1.91	0.451	1	A
Endosulfan II	ND		ug/kg	1.91	0.638	1	A
Endosulfan sulfate	ND		ug/kg	0.795	0.378	1	A
Methoxychlor	ND		ug/kg	3.58	1.11	1	A
Toxaphene	ND		ug/kg	35.8	10.0	1	A
cis-Chlordane	ND		ug/kg	2.38	0.664	1	A
trans-Chlordane	ND		ug/kg	2.38	0.630	1	A
Chlordane	ND		ug/kg	15.5	6.32	1	A

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05 Date Collected: 06/15/18 10:00

Client ID: MW-3 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05
Client ID: MW-3 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 10:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/21/18 18:51
Analyst: KB
Percent Solids: 81%
Methylation Date: 06/20/18 21:28

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	200	12.6	1	A
2,4,5-T	ND		ug/kg	200	6.21	1	A
2,4,5-TP (Silvex)	ND		ug/kg	200	5.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	114		30-150	A
DCAA	93		30-150	B

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07
Client ID: MW-4 4-4.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/21/18 21:47
Analyst: KEG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/19/18 17:43
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	B
Lindane	ND		ug/kg	0.740	0.331	1	B
Alpha-BHC	ND		ug/kg	0.740	0.210	1	B
Beta-BHC	ND		ug/kg	1.78	0.674	1	B
Heptachlor	ND		ug/kg	0.888	0.398	1	B
Aldrin	ND		ug/kg	1.78	0.625	1	B
Heptachlor epoxide	ND		ug/kg	3.33	0.999	1	B
Endrin	ND		ug/kg	0.740	0.303	1	B
Endrin aldehyde	ND		ug/kg	2.22	0.777	1	B
Endrin ketone	ND		ug/kg	1.78	0.457	1	B
Dieldrin	ND		ug/kg	1.11	0.555	1	B
4,4'-DDE	ND		ug/kg	1.78	0.411	1	B
4,4'-DDD	ND		ug/kg	1.78	0.634	1	B
4,4'-DDT	ND		ug/kg	3.33	1.43	1	B
Endosulfan I	ND		ug/kg	1.78	0.420	1	B
Endosulfan II	ND		ug/kg	1.78	0.594	1	B
Endosulfan sulfate	ND		ug/kg	0.740	0.352	1	B
Methoxychlor	ND		ug/kg	3.33	1.04	1	B
Toxaphene	ND		ug/kg	33.3	9.33	1	B
cis-Chlordane	ND		ug/kg	2.22	0.619	1	B
trans-Chlordane	ND		ug/kg	2.22	0.586	1	B
Chlordane	ND		ug/kg	14.4	5.88	1	B

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07 Date Collected: 06/15/18 11:30

Client ID: MW-4 4-4.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	**19**	Q	30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07
Client ID: MW-4 4-4.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/21/18 19:10
Analyst: KB
Percent Solids: 85%
Methylation Date: 06/20/18 21:28

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.02	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.16	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	130		30-150	A
DCAA	94		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/21/18 15:12
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 06/19/18 13:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03,05,07 Batch: WG1127519-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.656	0.293	A
Alpha-BHC	ND		ug/kg	0.656	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.597	A
Heptachlor	ND		ug/kg	0.787	0.353	A
Aldrin	ND		ug/kg	1.57	0.554	A
Heptachlor epoxide	ND		ug/kg	2.95	0.886	A
Endrin	ND		ug/kg	0.656	0.269	A
Endrin aldehyde	ND		ug/kg	1.97	0.689	A
Endrin ketone	ND		ug/kg	1.57	0.406	A
Dieldrin	ND		ug/kg	0.984	0.492	A
4,4'-DDE	ND		ug/kg	1.57	0.364	A
4,4'-DDD	ND		ug/kg	1.57	0.562	A
4,4'-DDT	ND		ug/kg	2.95	1.27	A
Endosulfan I	ND		ug/kg	1.57	0.372	A
Endosulfan II	ND		ug/kg	1.57	0.526	A
Endosulfan sulfate	ND		ug/kg	0.656	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.919	A
Toxaphene	ND		ug/kg	29.5	8.27	A
cis-Chlordane	ND		ug/kg	1.97	0.548	A
trans-Chlordane	ND		ug/kg	1.97	0.520	A
Chlordane	ND		ug/kg	12.8	5.22	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/21/18 15:12
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 06/19/18 13:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03,05,07 Batch: WG1127519-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/21/18 17:16
Analyst: KB

Extraction Method: EPA 8151A
Extraction Date: 06/19/18 15:31

Methylation Date: 06/20/18 21:28

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01,03,05,07 Batch: WG1127568-1						
2,4-D	ND		ug/kg	161	10.2	A
2,4,5-T	ND		ug/kg	161	5.00	A
2,4,5-TP (Silvex)	ND		ug/kg	161	4.29	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	140		30-150	A
DCAA	104		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03,05,07 Batch: WG1127519-2 WG1127519-3									
Delta-BHC	77		72		30-150	7		30	A
Lindane	78		72		30-150	8		30	A
Alpha-BHC	85		77		30-150	10		30	A
Beta-BHC	70		66		30-150	6		30	A
Heptachlor	81		72		30-150	12		30	A
Aldrin	84		76		30-150	10		30	A
Heptachlor epoxide	77		70		30-150	10		30	A
Endrin	81		74		30-150	9		30	A
Endrin aldehyde	49		51		30-150	4		30	A
Endrin ketone	55		58		30-150	5		30	A
Dieldrin	86		79		30-150	8		30	A
4,4'-DDE	83		77		30-150	8		30	A
4,4'-DDD	82		76		30-150	8		30	A
4,4'-DDT	82		76		30-150	8		30	A
Endosulfan I	79		72		30-150	9		30	A
Endosulfan II	69		65		30-150	6		30	A
Endosulfan sulfate	46		46		30-150	0		30	A
Methoxychlor	64		62		30-150	3		30	A
cis-Chlordane	69		63		30-150	9		30	A
trans-Chlordane	55		51		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03,05,07 Batch: WG1127519-2 WG1127519-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		56		30-150	B
Decachlorobiphenyl	60		57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		53		30-150	A
Decachlorobiphenyl	58		49		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01,03,05,07 Batch: WG1127568-2 WG1127568-3									
2,4-D	127		137		30-150	8		30	A
2,4,5-T	93		92		30-150	1		30	A
2,4,5-TP (Silvex)	106		104		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	102		98		30-150	A
DCAA	100		96		30-150	B

METALS

Project Name: 1585 HERTEL AVE.
Lab Number: L1822718
Project Number: 0437-017-001
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01
Client ID: MW-1 0-2'
Sample Location: 1585 HERTEL AVE.
Date Collected: 06/15/18 08:10
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7630		mg/kg	10.3	2.78	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Antimony, Total	1.21	J	mg/kg	5.16	0.392	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Arsenic, Total	6.02		mg/kg	1.03	0.214	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Barium, Total	67.0		mg/kg	1.03	0.179	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Beryllium, Total	0.402	J	mg/kg	0.516	0.034	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	1.03	0.101	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Calcium, Total	121000		mg/kg	103	36.1	20	06/21/18 07:55	06/22/18 02:49	EPA 3050B	1,6010C	MC
Chromium, Total	11.4		mg/kg	1.03	0.099	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Cobalt, Total	5.95		mg/kg	2.06	0.171	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Copper, Total	21.6		mg/kg	1.03	0.266	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Iron, Total	21200		mg/kg	5.16	0.931	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Lead, Total	54.0		mg/kg	5.16	0.276	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Magnesium, Total	20900		mg/kg	10.3	1.59	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Manganese, Total	505		mg/kg	1.03	0.164	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Mercury, Total	0.031	J	mg/kg	0.085	0.018	1	06/21/18 10:00	06/21/18 16:22	EPA 7471B	1,7471B	BV
Nickel, Total	16.5		mg/kg	2.58	0.250	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Potassium, Total	1010		mg/kg	258	14.8	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	2.06	0.266	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	1.03	0.292	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Sodium, Total	237		mg/kg	206	3.25	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	2.06	0.325	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Vanadium, Total	16.3		mg/kg	1.03	0.209	2	06/21/18 07:55	06/21/18 19:24	EPA 3050B	1,6010C	MC
Zinc, Total	4430		mg/kg	51.6	3.02	20	06/21/18 07:55	06/22/18 02:49	EPA 3050B	1,6010C	MC

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-02 Date Collected: 06/15/18 08:30

Client ID: MW-1 8-12' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	4690		mg/kg	9.66	2.61	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Antimony, Total	0.734	J	mg/kg	4.83	0.367	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Arsenic, Total	3.50		mg/kg	0.966	0.201	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Barium, Total	38.9		mg/kg	0.966	0.168	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Beryllium, Total	0.261	J	mg/kg	0.483	0.032	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.966	0.095	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Calcium, Total	116000		mg/kg	96.6	33.8	20	06/21/18 07:55	06/22/18 02:54	EPA 3050B	1,6010C	MC
Chromium, Total	8.62		mg/kg	0.966	0.093	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Cobalt, Total	3.52		mg/kg	1.93	0.160	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Copper, Total	16.6		mg/kg	0.966	0.249	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Iron, Total	10200		mg/kg	4.83	0.872	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Lead, Total	40.2		mg/kg	4.83	0.259	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Magnesium, Total	20400		mg/kg	9.66	1.49	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Manganese, Total	304		mg/kg	0.966	0.154	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Mercury, Total	0.023	J	mg/kg	0.079	0.017	1	06/21/18 10:00	06/21/18 16:24	EPA 7471B	1,7471B	BV
Nickel, Total	8.78		mg/kg	2.42	0.234	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Potassium, Total	612		mg/kg	242	13.9	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.93	0.249	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.966	0.273	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Sodium, Total	221		mg/kg	193	3.04	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.93	0.304	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Vanadium, Total	11.8		mg/kg	0.966	0.196	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC
Zinc, Total	114		mg/kg	4.83	0.283	2	06/21/18 07:55	06/21/18 19:29	EPA 3050B	1,6010C	MC

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03 Date Collected: 06/15/18 09:00

Client ID: MW-2 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	12000		mg/kg	9.05	2.44	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Antimony, Total	0.462	J	mg/kg	4.52	0.344	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Arsenic, Total	1.27		mg/kg	0.905	0.188	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Barium, Total	108		mg/kg	0.905	0.157	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Beryllium, Total	0.507		mg/kg	0.452	0.030	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.905	0.089	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Calcium, Total	3370		mg/kg	9.05	3.17	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Chromium, Total	15.6		mg/kg	0.905	0.087	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Cobalt, Total	6.42		mg/kg	1.81	0.150	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Copper, Total	13.8		mg/kg	0.905	0.233	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Iron, Total	15000		mg/kg	4.52	0.817	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Lead, Total	8.91		mg/kg	4.52	0.242	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Magnesium, Total	4160		mg/kg	9.05	1.39	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Manganese, Total	172		mg/kg	0.905	0.144	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Mercury, Total	0.017	J	mg/kg	0.078	0.017	1	06/21/18 10:00	06/21/18 16:26	EPA 7471B	1,7471B	BV
Nickel, Total	16.6		mg/kg	2.26	0.219	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Potassium, Total	834		mg/kg	226	13.0	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.81	0.233	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.905	0.256	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Sodium, Total	326		mg/kg	181	2.85	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.81	0.285	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Vanadium, Total	16.2		mg/kg	0.905	0.184	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC
Zinc, Total	63.8		mg/kg	4.52	0.265	2	06/21/18 07:55	06/21/18 19:34	EPA 3050B	1,6010C	MC

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-04 Date Collected: 06/15/18 09:22

Client ID: MW-2 12-16' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	9410		mg/kg	9.03	2.44	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Antimony, Total	0.984	J	mg/kg	4.52	0.343	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Arsenic, Total	3.31		mg/kg	0.903	0.188	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Barium, Total	79.5		mg/kg	0.903	0.157	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Beryllium, Total	0.424	J	mg/kg	0.452	0.030	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.903	0.089	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Calcium, Total	54200		mg/kg	9.03	3.16	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Chromium, Total	20.5		mg/kg	0.903	0.087	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Cobalt, Total	7.17		mg/kg	1.81	0.150	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Copper, Total	20.5		mg/kg	0.903	0.233	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Iron, Total	19400		mg/kg	4.52	0.816	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Lead, Total	8.90		mg/kg	4.52	0.242	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Magnesium, Total	15600		mg/kg	9.03	1.39	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Manganese, Total	438		mg/kg	0.903	0.144	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Mercury, Total	ND		mg/kg	0.072	0.015	1	06/21/18 10:00	06/21/18 16:28	EPA 7471B	1,7471B	BV
Nickel, Total	18.0		mg/kg	2.26	0.218	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Potassium, Total	1480		mg/kg	226	13.0	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.81	0.233	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.903	0.256	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Sodium, Total	168	J	mg/kg	181	2.84	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.81	0.284	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Vanadium, Total	20.6		mg/kg	0.903	0.183	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC
Zinc, Total	69.8		mg/kg	4.52	0.265	2	06/21/18 07:55	06/21/18 19:39	EPA 3050B	1,6010C	MC

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05 Date Collected: 06/15/18 10:00

Client ID: MW-3 0-2' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	16800		mg/kg	9.51	2.57	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Antimony, Total	0.951	J	mg/kg	4.75	0.361	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Arsenic, Total	3.87		mg/kg	0.951	0.198	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Barium, Total	134		mg/kg	0.951	0.165	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Beryllium, Total	0.856		mg/kg	0.475	0.031	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.951	0.093	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Calcium, Total	4440		mg/kg	9.51	3.33	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Chromium, Total	22.1		mg/kg	0.951	0.091	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Cobalt, Total	10.0		mg/kg	1.90	0.158	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Copper, Total	26.8		mg/kg	0.951	0.245	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Iron, Total	28700		mg/kg	4.75	0.859	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Lead, Total	10.8		mg/kg	4.75	0.255	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Magnesium, Total	6210		mg/kg	9.51	1.46	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Manganese, Total	583		mg/kg	0.951	0.151	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Mercury, Total	0.018	J	mg/kg	0.081	0.017	1	06/21/18 10:00	06/21/18 16:29	EPA 7471B	1,7471B	BV
Nickel, Total	25.9		mg/kg	2.38	0.230	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Potassium, Total	1240		mg/kg	238	13.7	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.90	0.245	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.951	0.269	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Sodium, Total	398		mg/kg	190	3.00	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.90	0.300	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Vanadium, Total	31.9		mg/kg	0.951	0.193	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC
Zinc, Total	89.2		mg/kg	4.75	0.278	2	06/21/18 07:55	06/21/18 19:44	EPA 3050B	1,6010C	MC

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-06 Date Collected: 06/15/18 10:30

Client ID: MW-3 4-8' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	9770		mg/kg	8.98	2.42	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Antimony, Total	0.978	J	mg/kg	4.49	0.341	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Arsenic, Total	4.58		mg/kg	0.898	0.187	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Barium, Total	117		mg/kg	0.898	0.156	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Beryllium, Total	0.458		mg/kg	0.449	0.030	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.898	0.088	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Calcium, Total	94400		mg/kg	89.8	31.4	20	06/21/18 07:55	06/22/18 02:59	EPA 3050B	1,6010C	MC
Chromium, Total	14.7		mg/kg	0.898	0.086	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Cobalt, Total	8.22		mg/kg	1.80	0.149	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Copper, Total	21.7		mg/kg	0.898	0.232	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Iron, Total	21100		mg/kg	4.49	0.810	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Lead, Total	8.75		mg/kg	4.49	0.240	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Magnesium, Total	20400		mg/kg	8.98	1.38	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Manganese, Total	510		mg/kg	0.898	0.143	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Mercury, Total	ND		mg/kg	0.077	0.016	1	06/21/18 10:00	06/21/18 16:31	EPA 7471B	1,7471B	BV
Nickel, Total	19.0		mg/kg	2.24	0.217	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Potassium, Total	1250		mg/kg	224	12.9	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.80	0.232	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.898	0.254	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Sodium, Total	186		mg/kg	180	2.83	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.80	0.283	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Vanadium, Total	22.1		mg/kg	0.898	0.182	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC
Zinc, Total	60.5		mg/kg	4.49	0.263	2	06/21/18 07:55	06/21/18 19:49	EPA 3050B	1,6010C	MC

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07 Date Collected: 06/15/18 11:30

Client ID: MW-4 4-4.5' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	10700		mg/kg	8.87	2.40	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Antimony, Total	1.07	J	mg/kg	4.44	0.337	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Arsenic, Total	3.49		mg/kg	0.887	0.184	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Barium, Total	97.8		mg/kg	0.887	0.154	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Beryllium, Total	0.577		mg/kg	0.444	0.029	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.887	0.087	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Calcium, Total	57100		mg/kg	8.87	3.10	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Chromium, Total	17.2		mg/kg	0.887	0.085	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Cobalt, Total	7.54		mg/kg	1.77	0.147	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Copper, Total	33.3		mg/kg	0.887	0.229	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Iron, Total	19600		mg/kg	4.44	0.801	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Lead, Total	33.1		mg/kg	4.44	0.238	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Magnesium, Total	13700		mg/kg	8.87	1.37	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Manganese, Total	502		mg/kg	0.887	0.141	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Mercury, Total	0.023	J	mg/kg	0.076	0.016	1	06/21/18 10:00	06/21/18 16:37	EPA 7471B	1,7471B	BV
Nickel, Total	18.2		mg/kg	2.22	0.215	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Potassium, Total	1500		mg/kg	222	12.8	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.77	0.229	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.887	0.251	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Sodium, Total	142	J	mg/kg	177	2.79	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.77	0.279	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Vanadium, Total	21.0		mg/kg	0.887	0.180	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC
Zinc, Total	91.7		mg/kg	4.44	0.260	2	06/21/18 07:55	06/21/18 19:55	EPA 3050B	1,6010C	MC

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-08 Date Collected: 06/15/18 12:00

Client ID: MW-4 8-10' Date Received: 06/15/18

Sample Location: 1585 HERTEL AVE. 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	10100		mg/kg	9.17	2.48	2	06/21/18 07:55	06/21/18 20:49	EPA 3050B	1,6010C	MC
Antimony, Total	1.14	J	mg/kg	4.59	0.348	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Arsenic, Total	3.82		mg/kg	0.917	0.191	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Barium, Total	83.7		mg/kg	0.917	0.160	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Beryllium, Total	0.523		mg/kg	0.459	0.030	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.917	0.090	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Calcium, Total	122000		mg/kg	91.7	32.1	20	06/21/18 07:55	06/22/18 03:04	EPA 3050B	1,6010C	MC
Chromium, Total	14.7		mg/kg	0.917	0.088	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Cobalt, Total	7.00		mg/kg	1.83	0.152	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Copper, Total	24.3		mg/kg	0.917	0.237	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Iron, Total	16400		mg/kg	4.59	0.828	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Lead, Total	28.4		mg/kg	4.59	0.246	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Magnesium, Total	8420		mg/kg	9.17	1.41	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Manganese, Total	362		mg/kg	0.917	0.146	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Mercury, Total	0.024	J	mg/kg	0.075	0.016	1	06/21/18 10:00	06/21/18 16:39	EPA 7471B	1,7471B	BV
Nickel, Total	17.3		mg/kg	2.29	0.222	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Potassium, Total	1280		mg/kg	229	13.2	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.83	0.237	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.917	0.260	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Sodium, Total	142	J	mg/kg	183	2.89	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.83	0.289	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Vanadium, Total	19.6		mg/kg	0.917	0.186	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC
Zinc, Total	85.4		mg/kg	4.59	0.269	2	06/21/18 07:55	06/21/18 23:20	EPA 3050B	1,6010C	MC

Project Name: 1585 HERTEL AVE. **Lab Number:** L1822718

Project Number: 0437-017-001 **Report Date:** 06/22/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1128153-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	06/21/18 10:00	06/21/18 11:49	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1128172-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Calcium, Total	3.44	J	mg/kg	4.00	1.40	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Iron, Total	1.56	J	mg/kg	2.00	0.361	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Magnesium, Total	1.29	J	mg/kg	4.00	0.616	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Manganese, Total	0.332	J	mg/kg	0.400	0.064	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Potassium, Total	ND		mg/kg	100	5.76	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/21/18 07:55	06/21/18 11:47	1,6010C	LC

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001
Lab Number: L1822718
Report Date: 06/22/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1128153-2 SRM Lot Number: D098-540								
Mercury, Total	110		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1128172-2 SRM Lot Number: D098-540					
Aluminum, Total	80	-	47-153	-	
Antimony, Total	161	-	6-194	-	
Arsenic, Total	108	-	83-117	-	
Barium, Total	99	-	82-118	-	
Beryllium, Total	99	-	83-117	-	
Cadmium, Total	100	-	82-117	-	
Calcium, Total	93	-	81-118	-	
Chromium, Total	104	-	83-119	-	
Cobalt, Total	100	-	84-116	-	
Copper, Total	104	-	84-116	-	
Iron, Total	106	-	60-140	-	
Lead, Total	102	-	82-117	-	
Magnesium, Total	90	-	76-124	-	
Manganese, Total	94	-	82-118	-	
Nickel, Total	100	-	82-117	-	
Potassium, Total	92	-	69-131	-	
Selenium, Total	108	-	78-121	-	
Silver, Total	106	-	80-120	-	
Sodium, Total	98	-	74-126	-	
Thallium, Total	103	-	80-119	-	
Vanadium, Total	103	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1128172-2 SRM Lot Number: D098-540					
Zinc, Total	104	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1128153-3 QC Sample: L1821791-01 Client ID: MS Sample												
Mercury, Total	0.365	0.562	1.08	**127**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

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): 01-08 QC Batch ID: WG1128172-3 WG1128172-4 QC Sample: L1822703-16 Client ID: MS Sample												
Aluminum, Total	8980	187	8240	**0**	Q	9290	**163**	Q	75-125	12		20
Antimony, Total	1.06J	46.8	42.0	90		41.6	88		75-125	1		20
Arsenic, Total	9.89	11.2	19.7	87		21.8	104		75-125	10		20
Barium, Total	108.	187	292	98		340	122		75-125	15		20
Beryllium, Total	0.432J	4.68	4.58	98		4.63	97		75-125	1		20
Cadmium, Total	ND	4.77	4.66	98		6.05	125		75-125	**26**	Q	20
Calcium, Total	6860	936	10700	**410**	Q	30200	**2460**	Q	75-125	**95**	Q	20
Chromium, Total	12.2	18.7	28.6	88		29.5	91		75-125	3		20
Cobalt, Total	7.43	46.8	47.5	86		48.1	86		75-125	1		20
Copper, Total	49.8	23.4	58.4	**37**	Q	64.6	**62**	Q	75-125	10		20
Iron, Total	18400	93.6	16000	**0**	Q	17000	**0**	Q	75-125	6		20
Lead, Total	211.	47.7	328	**245**	Q	341	**268**	Q	75-125	4		20
Magnesium, Total	2380	936	3050	**72**	Q	4020	**172**	Q	75-125	**27**	Q	20
Manganese, Total	446.	46.8	449	**6**	Q	635	**398**	Q	75-125	**34**	Q	20
Nickel, Total	17.2	46.8	56.5	84		56.8	83		75-125	1		20
Potassium, Total	802.	936	1670	93		1780	103		75-125	6		20
Selenium, Total	ND	11.2	10.4	93		10.9	96		75-125	5		20
Silver, Total	ND	28.1	27.2	97		28.9	101		75-125	6		20
Sodium, Total	306.	936	1270	103		1490	124		75-125	16		20
Thallium, Total	ND	11.2	8.37	**74**	Q	7.89	**69**	Q	75-125	6		20
Vanadium, Total	15.5	46.8	56.0	86		59.5	92		75-125	6		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

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): 01-08 QC Batch ID: WG1128172-3 WG1128172-4 QC Sample: L1822703-16 Client ID: MS Sample												
Zinc, Total	224.	46.8	357	**284**	Q	681	**962**	Q	75-125	**62**	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1128153-4 QC Sample: L1821791-01 Client ID: DUP Sample						
Mercury, Total	0.365	0.547	mg/kg	**40**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-01
Client ID: MW-1 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 08:10
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.6		%	0.100	NA	1	-	06/16/18 12:09	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-02
Client ID: MW-1 8-12'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 08:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	06/16/18 12:09	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-03
Client ID: MW-2 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 09:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.1		%	0.100	NA	1	-	06/16/18 12:09	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-04
Client ID: MW-2 12-16'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 09:22
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	06/16/18 12:09	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-05
Client ID: MW-3 0-2'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 10:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	06/16/18 12:09	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-06
Client ID: MW-3 4-8'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 10:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	06/16/18 12:09	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-07
Client ID: MW-4 4-4.5'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 11:30
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	06/16/18 12:09	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

SAMPLE RESULTS

Lab ID: L1822718-08
Client ID: MW-4 8-10'
Sample Location: 1585 HERTEL AVE.

Date Collected: 06/15/18 12:00
Date Received: 06/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	06/16/18 12:09	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001

Lab Number: L1822718

Report Date: 06/22/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1126697-1 QC Sample: L1822647-01 Client ID: DUP Sample						
Solids, Total	93.7	91.9	%	2		20

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822718-01A	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-01B	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-01C	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-01D	Plastic 2oz unpreserved for TS	B	NA		2.9	Y	Absent		TS(7)
L1822718-01E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.9	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822718-01F	Glass 120ml/4oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822718-01G	Glass 250ml/8oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822718-01X	Vial MeOH preserved split	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-01Y	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-01Z	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-02A	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-02B	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-02C	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-02D	Plastic 2oz unpreserved for TS	B	NA		2.9	Y	Absent		TS(7)
L1822718-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.9	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822718-02F	Glass 120ml/4oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14)
L1822718-02X	Vial MeOH preserved split	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822718-02Y	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-02Z	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-03A	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-03B	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-03C	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-03D	Plastic 2oz unpreserved for TS	B	NA		2.9	Y	Absent		TS(7)
L1822718-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.9	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822718-03F	Glass 120ml/4oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822718-03G	Glass 250ml/8oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822718-03X	Vial MeOH preserved split	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-03Y	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-03Z	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-04A	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-04B	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-04C	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-04D	Plastic 2oz unpreserved for TS	B	NA		2.9	Y	Absent		TS(7)
L1822718-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.9	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822718-04F	Glass 120ml/4oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14)
L1822718-04X	Vial MeOH preserved split	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-04Y	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-04Z	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-05A	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-05B	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822718-05C	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-05D	Plastic 2oz unpreserved for TS	B	NA		2.9	Y	Absent		TS(7)
L1822718-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.9	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822718-05F	Glass 120ml/4oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822718-05G	Glass 250ml/8oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822718-05X	Vial MeOH preserved split	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-05Y	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-05Z	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-06A	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-06B	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-06C	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-06D	Plastic 2oz unpreserved for TS	B	NA		2.9	Y	Absent		TS(7)
L1822718-06E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.9	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822718-06F	Glass 120ml/4oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14)
L1822718-06X	Vial MeOH preserved split	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-06Y	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-06Z	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-07A	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-07B	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-07C	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-07D	Plastic 2oz unpreserved for TS	B	NA		2.9	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1822718-07E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.9	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822718-07F	Glass 120ml/4oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822718-07G	Glass 250ml/8oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1822718-07X	Vial MeOH preserved split	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-07Y	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-07Z	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-08A	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-08B	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-08C	5 gram Encore Sampler	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-08D	Plastic 2oz unpreserved for TS	B	NA		2.9	Y	Absent		TS(7)
L1822718-08E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.9	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1822718-08F	Glass 120ml/4oz unpreserved	B	NA		2.9	Y	Absent		NYTCL-8270(14)
L1822718-08X	Vial MeOH preserved split	B	NA		2.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1822718-08Y	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)
L1822718-08Z	Vial Water preserved split	B	NA		2.9	Y	Absent	16-JUN-18 12:45	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1822718
Project Number:	0437-017-001	**Report Date:**	06/22/18

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

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Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1822718
Project Number:	0437-017-001	**Report Date:**	06/22/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 6/16/18

ALPHA Job #: L1822718

Client Information
Client: Benchmark Env Eng
Address: 2558 Hamburg Turnpike Buffalo, NY
Phone: 716-856-0599
Fax:
Email:

Project Information
Project Name: 1585 Hertel Ave
Project Location: 1585 Hertel Ave
Project #: 0437-017-001
(Use Project name as Project #) ☐
Project Manager: Chris Boron
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:
CAT B Deliverables

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	Full List VOCs	TCL SVOC	TAL Metals	PCB, Pest, Herb	TOT Solids	Total Bottle	Sample Specific Comments
22718-01	MW-1 0-2'	6/15/18	0810	S	RW	✓	✓	✓	✓	✓		
02	MW-1 8-12'	6/15/18	0830			✓	✓	✓		✓		
03	MW-2 0-2'	6/15/18	0900			✓	✓	✓	✓	✓		
04	MW-2 12-16'	6/15/18	0921			✓	✓	✓		✓		
05	MW-3 0-2'	6/15/18	1000			✓	✓	✓	✓	✓		
06	MW-3 4-8'	6/15/18	1030			✓	✓	✓		✓		
07	MW-4 4-4.5	6/15/18	1130			✓	✓	✓	✓	✓		
08	MW-4 8-10'	6/15/18	1200	↓	↓	✓	✓	✓		✓		
	SS-2											
	SS-3											

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

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

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

Container Type												
Preservative												

Relinquished By:	Date/Time	Received By:	Date/Time
Chris Boron	6/15/18 3:15	Audrey Tilley ABC	6/15/18 15:15
Audrey Tilley ABC	6/15/18 16:00		6/16/18 8:10

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)

ANALYTICAL REPORT

Lab Number:	L1823203
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE. SITE
Project Number:	0437-017-001-003
Report Date:	06/28/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1823203-01	SS-2	SOIL	BUFFALO, NY	06/19/18 12:10	06/20/18
L1823203-02	SS-3	SOIL	BUFFALO, NY	06/19/18 12:20	06/20/18

Project Name:	1585 HERTEL AVE. SITE	**Lab Number:**	L1823203
Project Number:	0437-017-001-003	**Report Date:**	06/28/18

Case Narrative

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

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

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

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

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

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

Project Name: 1585 HERTEL AVE. SITE **Lab Number:** L1823203
Project Number: 0437-017-001-003 **Report Date:** 06/28/18

Case Narrative (continued)

Report Submission

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

Semivolatile Organics

L1823203-02: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Pesticides

L1823203-01 and -02: The sample has elevated detection limits due to the dilution required by the sample matrix.

Herbicides

L1823203-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L1823203-02: The surrogate recoveries are below the acceptance criteria for dcaa (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total Metals

L1823203-01 and -02: 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.

The WG1129068-1 Method Blank, associated with L1823203-01 and -02, has a concentration above the reporting limit for Manganese. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

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

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 06/28/18

ORGANICS

SEMIVOLATILES

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01 D2
Client ID: SS-2
Sample Location: BUFFALO, NY

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/26/18 22:03
Analyst: PS
Percent Solids: 38%

Date Collected: 06/19/18 12:10
Date Received: 06/20/18
Field Prep: Not Specified

Extraction Method: EPA 3546
Extraction Date: 06/24/18 15:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	51000		ug/kg	2000	390	8
Benzo(b)fluoranthene	35000		ug/kg	2000	570	8
Pyrene	42000		ug/kg	2000	340	8

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01 D
Client ID: SS-2
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:10
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/25/18 18:01
Analyst: CB
Percent Solids: 38%

Extraction Method: EPA 3546
Extraction Date: 06/24/18 15:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1300		ug/kg	680	88.	2
Hexachlorobenzene	ND		ug/kg	510	95.	2
Bis(2-chloroethyl)ether	ND		ug/kg	770	120	2
2-Chloronaphthalene	ND		ug/kg	850	84.	2
3,3'-Dichlorobenzidine	ND		ug/kg	850	230	2
2,4-Dinitrotoluene	ND		ug/kg	850	170	2
2,6-Dinitrotoluene	ND		ug/kg	850	150	2
Fluoranthene	62000	E	ug/kg	510	98.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	850	91.	2
4-Bromophenyl phenyl ether	ND		ug/kg	850	130	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	1000	140	2
Bis(2-chloroethoxy)methane	ND		ug/kg	920	85.	2
Hexachlorobutadiene	ND		ug/kg	850	120	2
Hexachlorocyclopentadiene	ND		ug/kg	2400	770	2
Hexachloroethane	ND		ug/kg	680	140	2
Isophorone	ND		ug/kg	770	110	2
Naphthalene	250	J	ug/kg	850	100	2
Nitrobenzene	ND		ug/kg	770	130	2
NDPA/DPA	ND		ug/kg	680	97.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	850	130	2
Bis(2-ethylhexyl)phthalate	520	J	ug/kg	850	290	2
Butyl benzyl phthalate	ND		ug/kg	850	210	2
Di-n-butylphthalate	ND		ug/kg	850	160	2
Di-n-octylphthalate	ND		ug/kg	850	290	2
Diethyl phthalate	ND		ug/kg	850	79.	2
Dimethyl phthalate	ND		ug/kg	850	180	2
Benzo(a)anthracene	18000		ug/kg	510	96.	2
Benzo(a)pyrene	29000		ug/kg	680	210	2

Project Name: 1585 HERTEL AVE. SITE **Lab Number:** L1823203

Project Number: 0437-017-001-003 **Report Date:** 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01 D Date Collected: 06/19/18 12:10
Client ID: SS-2 Date Received: 06/20/18
Sample Location: 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	47000	E	ug/kg	510	140	2
Benzo(k)fluoranthene	12000		ug/kg	510	140	2
Chrysene	24000		ug/kg	510	88.	2
Acenaphthylene	580	J	ug/kg	680	130	2
Anthracene	4900		ug/kg	510	170	2
Benzo(ghi)perylene	28000		ug/kg	680	100	2
Fluorene	1700		ug/kg	850	83.	2
Phenanthrene	28000		ug/kg	510	100	2
Dibenzo(a,h)anthracene	6200		ug/kg	510	98.	2
Indeno(1,2,3-cd)pyrene	29000		ug/kg	680	120	2
Pyrene	52000	E	ug/kg	510	85.	2
Biphenyl	ND		ug/kg	1900	200	2
4-Chloroaniline	ND		ug/kg	850	150	2
2-Nitroaniline	ND		ug/kg	850	160	2
3-Nitroaniline	ND		ug/kg	850	160	2
4-Nitroaniline	ND		ug/kg	850	350	2
Dibenzofuran	780	J	ug/kg	850	80.	2
2-Methylnaphthalene	150	J	ug/kg	1000	100	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	850	89.	2
Acetophenone	120	J	ug/kg	850	100	2
2,4,6-Trichlorophenol	ND		ug/kg	510	160	2
p-Chloro-m-cresol	ND		ug/kg	850	130	2
2-Chlorophenol	ND		ug/kg	850	100	2
2,4-Dichlorophenol	ND		ug/kg	770	140	2
2,4-Dimethylphenol	ND		ug/kg	850	280	2
2-Nitrophenol	ND		ug/kg	1800	320	2
4-Nitrophenol	ND		ug/kg	1200	350	2
2,4-Dinitrophenol	ND		ug/kg	4100	400	2
4,6-Dinitro-o-cresol	ND		ug/kg	2200	410	2
Pentachlorophenol	ND		ug/kg	680	190	2
Phenol	ND		ug/kg	850	130	2
2-Methylphenol	ND		ug/kg	850	130	2
3-Methylphenol/4-Methylphenol	500	J	ug/kg	1200	130	2
2,4,5-Trichlorophenol	ND		ug/kg	850	160	2
Carbazole	2700		ug/kg	850	83.	2
Atrazine	ND		ug/kg	680	300	2
Benzaldehyde	230	J	ug/kg	1100	230	2

Project Name: 1585 HERTEL AVE. SITE **Lab Number:** L1823203

Project Number: 0437-017-001-003 **Report Date:** 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01 D
Client ID: SS-2
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:10
Date Received: 06/20/18
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	850	260	2
2,3,4,6-Tetrachlorophenol	ND		ug/kg	850	170	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		25-120
Phenol-d6	44		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	45		18-120

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-02
Client ID: SS-3
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:20
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/27/18 14:56
Analyst: ALS
Percent Solids: 51%

Extraction Method: EPA 3546
Extraction Date: 06/24/18 18:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	770	99.	1
Hexachlorobenzene	ND		ug/kg	580	110	1
Bis(2-chloroethyl)ether	ND		ug/kg	860	130	1
2-Chloronaphthalene	ND		ug/kg	960	95.	1
3,3'-Dichlorobenzidine	ND		ug/kg	960	260	1
2,4-Dinitrotoluene	ND		ug/kg	960	190	1
2,6-Dinitrotoluene	ND		ug/kg	960	160	1
Fluoranthene	4400		ug/kg	580	110	1
4-Chlorophenyl phenyl ether	ND		ug/kg	960	100	1
4-Bromophenyl phenyl ether	ND		ug/kg	960	150	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	160	1
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	96.	1
Hexachlorobutadiene	ND		ug/kg	960	140	1
Hexachlorocyclopentadiene	ND		ug/kg	2700	870	1
Hexachloroethane	ND		ug/kg	770	160	1
Isophorone	ND		ug/kg	860	120	1
Naphthalene	ND		ug/kg	960	120	1
Nitrobenzene	ND		ug/kg	860	140	1
NDPA/DPA	ND		ug/kg	770	110	1
n-Nitrosodi-n-propylamine	ND		ug/kg	960	150	1
Bis(2-ethylhexyl)phthalate	520	J	ug/kg	960	330	1
Butyl benzyl phthalate	ND		ug/kg	960	240	1
Di-n-butylphthalate	ND		ug/kg	960	180	1
Di-n-octylphthalate	ND		ug/kg	960	330	1
Diethyl phthalate	ND		ug/kg	960	89.	1
Dimethyl phthalate	ND		ug/kg	960	200	1
Benzo(a)anthracene	1500		ug/kg	580	110	1
Benzo(a)pyrene	2100		ug/kg	770	230	1

Project Name: 1585 HERTEL AVE. SITE **Lab Number:** L1823203

Project Number: 0437-017-001-003 **Report Date:** 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-02 Date Collected: 06/19/18 12:20

Client ID: SS-3 Date Received: 06/20/18

Sample Location: 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	3800		ug/kg	580	160	1
Benzo(k)fluoranthene	1200		ug/kg	580	150	1
Chrysene	2700		ug/kg	580	100	1
Acenaphthylene	ND		ug/kg	770	150	1
Anthracene	280	J	ug/kg	580	190	1
Benzo(ghi)perylene	2100		ug/kg	770	110	1
Fluorene	93	J	ug/kg	960	93.	1
Phenanthrene	1500		ug/kg	580	120	1
Dibenzo(a,h)anthracene	410	J	ug/kg	580	110	1
Indeno(1,2,3-cd)pyrene	2100		ug/kg	770	130	1
Pyrene	3500		ug/kg	580	95.	1
Biphenyl	ND		ug/kg	2200	220	1
4-Chloroaniline	ND		ug/kg	960	170	1
2-Nitroaniline	ND		ug/kg	960	180	1
3-Nitroaniline	ND		ug/kg	960	180	1
4-Nitroaniline	ND		ug/kg	960	400	1
Dibenzofuran	ND		ug/kg	960	91.	1
2-Methylnaphthalene	ND		ug/kg	1200	120	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	960	100	1
Acetophenone	190	J	ug/kg	960	120	1
2,4,6-Trichlorophenol	ND		ug/kg	580	180	1
p-Chloro-m-cresol	ND		ug/kg	960	140	1
2-Chlorophenol	ND		ug/kg	960	110	1
2,4-Dichlorophenol	ND		ug/kg	860	150	1
2,4-Dimethylphenol	ND		ug/kg	960	320	1
2-Nitrophenol	ND		ug/kg	2100	360	1
4-Nitrophenol	ND		ug/kg	1300	390	1
2,4-Dinitrophenol	ND		ug/kg	4600	450	1
4,6-Dinitro-o-cresol	ND		ug/kg	2500	460	1
Pentachlorophenol	ND		ug/kg	770	210	1
Phenol	ND		ug/kg	960	140	1
2-Methylphenol	ND		ug/kg	960	150	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	1
2,4,5-Trichlorophenol	ND		ug/kg	960	180	1
Carbazole	360	J	ug/kg	960	93.	1
Atrazine	ND		ug/kg	770	340	1
Benzaldehyde	610	J	ug/kg	1300	260	1

Project Name: 1585 HERTEL AVE. SITE **Lab Number:** L1823203

Project Number: 0437-017-001-003 **Report Date:** 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-02 Date Collected: 06/19/18 12:20

Client ID: SS-3 Date Received: 06/20/18

Sample Location: 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	960	290	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	960	190	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		25-120
Phenol-d6	42		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	40		30-120
2,4,6-Tribromophenol	41		10-136
4-Terphenyl-d14	43		18-120

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/25/18 09:05
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 06/24/18 15:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1129251-1					
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	43.
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	17.
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	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
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: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/25/18 09:05
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 06/24/18 15:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1129251-1					
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	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
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	61.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/25/18 09:05
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 06/24/18 15:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1129251-1					
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.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	75		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1129251-2 WG1129251-3								
Acenaphthene	54		57		31-137	5		50
Hexachlorobenzene	69		73		40-140	6		50
Bis(2-chloroethyl)ether	55		58		40-140	5		50
2-Chloronaphthalene	66		69		40-140	4		50
3,3'-Dichlorobenzidine	45		46		40-140	2		50
2,4-Dinitrotoluene	60		64		40-132	6		50
2,6-Dinitrotoluene	64		68		40-140	6		50
Fluoranthene	60		63		40-140	5		50
4-Chlorophenyl phenyl ether	64		69		40-140	8		50
4-Bromophenyl phenyl ether	71		72		40-140	1		50
Bis(2-chloroisopropyl)ether	**36**	Q	**38**	Q	40-140	5		50
Bis(2-chloroethoxy)methane	59		62		40-117	5		50
Hexachlorobutadiene	82		84		40-140	2		50
Hexachlorocyclopentadiene	66		68		40-140	3		50
Hexachloroethane	63		66		40-140	5		50
Isophorone	65		68		40-140	5		50
Naphthalene	55		58		40-140	5		50
Nitrobenzene	65		71		40-140	9		50
NDPA/DPA	60		64		36-157	6		50
n-Nitrosodi-n-propylamine	65		70		32-121	7		50
Bis(2-ethylhexyl)phthalate	46		48		40-140	4		50
Butyl benzyl phthalate	58		60		40-140	3		50
Di-n-butylphthalate	58		59		40-140	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1129251-2 WG1129251-3								
Di-n-octylphthalate	45		47		40-140	4		50
Diethyl phthalate	63		66		40-140	5		50
Dimethyl phthalate	69		71		40-140	3		50
Benzo(a)anthracene	55		58		40-140	5		50
Benzo(a)pyrene	49		52		40-140	6		50
Benzo(b)fluoranthene	49		51		40-140	4		50
Benzo(k)fluoranthene	49		52		40-140	6		50
Chrysene	49		51		40-140	4		50
Acenaphthylene	62		65		40-140	5		50
Anthracene	55		56		40-140	2		50
Benzo(ghi)perylene	53		57		40-140	7		50
Fluorene	59		62		40-140	5		50
Phenanthrene	54		56		40-140	4		50
Dibenzo(a,h)anthracene	54		57		40-140	5		50
Indeno(1,2,3-cd)pyrene	51		56		40-140	9		50
Pyrene	60		62		35-142	3		50
Biphenyl	66		68		54-104	3		50
4-Chloroaniline	60		62		40-140	3		50
2-Nitroaniline	59		62		47-134	5		50
3-Nitroaniline	45		47		26-129	4		50
4-Nitroaniline	49		52		41-125	6		50
Dibenzofuran	57		61		40-140	7		50
2-Methylnaphthalene	59		62		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1129251-2 WG1129251-3								
1,2,4,5-Tetrachlorobenzene	79		83		40-117	5		50
Acetophenone	58		63		14-144	8		50
2,4,6-Trichlorophenol	69		74		30-130	7		50
p-Chloro-m-cresol	68		71		26-103	4		50
2-Chlorophenol	54		58		25-102	7		50
2,4-Dichlorophenol	62		66		30-130	6		50
2,4-Dimethylphenol	68		72		30-130	6		50
2-Nitrophenol	55		59		30-130	7		50
4-Nitrophenol	69		72		11-114	4		50
2,4-Dinitrophenol	47		48		4-130	2		50
4,6-Dinitro-o-cresol	59		64		10-130	8		50
Pentachlorophenol	53		57		17-109	7		50
Phenol	56		59		26-90	5		50
2-Methylphenol	58		62		30-130.	7		50
3-Methylphenol/4-Methylphenol	63		66		30-130	5		50
2,4,5-Trichlorophenol	72		73		30-130	1		50
Carbazole	**52**	Q	55		54-128	6		50
Atrazine	68		74		40-140	8		50
Benzaldehyde	50		53		40-140	6		50
Caprolactam	47		50		15-130	6		50
2,3,4,6-Tetrachlorophenol	68		71		40-140	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1129251-2 WG1129251-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		59		25-120
Phenol-d6	60		62		10-120
Nitrobenzene-d5	68		73		23-120
2-Fluorobiphenyl	65		69		30-120
2,4,6-Tribromophenol	70		70		10-136
4-Terphenyl-d14	70		72		18-120

PCBS

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01
Client ID: SS-2
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:10
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/26/18 04:37
Analyst: HT
Percent Solids: 38%

Extraction Method: EPA 3546
Extraction Date: 06/24/18 23:50
Cleanup Method: EPA 3665A
Cleanup Date: 06/25/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/25/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	87.5	9.93	1	A
Aroclor 1221	ND		ug/kg	87.5	13.3	1	A
Aroclor 1232	ND		ug/kg	87.5	8.61	1	A
Aroclor 1242	ND		ug/kg	87.5	10.7	1	A
Aroclor 1248	ND		ug/kg	87.5	9.82	1	A
Aroclor 1254	53.3	J	ug/kg	87.5	7.14	1	A
Aroclor 1260	22.4	J	ug/kg	87.5	9.14	1	A
Aroclor 1262	ND		ug/kg	87.5	7.20	1	A
Aroclor 1268	ND		ug/kg	87.5	6.20	1	A
PCBs, Total	75.7	J	ug/kg	87.5	6.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	135		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	130		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-02
Client ID: SS-3
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:20
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/26/18 04:49
Analyst: HT
Percent Solids: 51%

Extraction Method: EPA 3546
Extraction Date: 06/24/18 23:50
Cleanup Method: EPA 3665A
Cleanup Date: 06/25/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/25/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	63.3	7.18	1	A
Aroclor 1221	ND		ug/kg	63.3	9.63	1	A
Aroclor 1232	ND		ug/kg	63.3	6.23	1	A
Aroclor 1242	ND		ug/kg	63.3	7.75	1	A
Aroclor 1248	ND		ug/kg	63.3	7.10	1	A
Aroclor 1254	70.1		ug/kg	63.3	5.16	1	B
Aroclor 1260	25.3	J	ug/kg	63.3	6.61	1	A
Aroclor 1262	ND		ug/kg	63.3	5.20	1	A
Aroclor 1268	ND		ug/kg	63.3	4.48	1	A
PCBs, Total	95.4	J	ug/kg	63.3	4.48	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	139		30-150	A
Decachlorobiphenyl	111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**200**	Q	30-150	B
Decachlorobiphenyl	148		30-150	B

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/26/18 03:59
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 06/24/18 23:50
Cleanup Method: EPA 3665A
Cleanup Date: 06/25/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/25/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1129285-1						
Aroclor 1016	ND		ug/kg	32.9	3.73	A
Aroclor 1221	ND		ug/kg	32.9	5.00	A
Aroclor 1232	ND		ug/kg	32.9	3.23	A
Aroclor 1242	ND		ug/kg	32.9	4.02	A
Aroclor 1248	ND		ug/kg	32.9	3.69	A
Aroclor 1254	ND		ug/kg	32.9	2.68	A
Aroclor 1260	ND		ug/kg	32.9	3.43	A
Aroclor 1262	ND		ug/kg	32.9	2.70	A
Aroclor 1268	ND		ug/kg	32.9	2.33	A
PCBs, Total	ND		ug/kg	32.9	2.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**181**	Q	30-150	A
Decachlorobiphenyl	133		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**206**	Q	30-150	B
Decachlorobiphenyl	146		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1129285-2 WG1129285-3									
Aroclor 1016	82		86		40-140	5		50	A
Aroclor 1260	72		74		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**189**	Q	**192**	Q	30-150	A
Decachlorobiphenyl	143		149		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**213**	Q	**217**	Q	30-150	B
Decachlorobiphenyl	**153**	Q	**161**	Q	30-150	B

PESTICIDES

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01
Client ID: SS-2
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:10
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/27/18 04:55
Analyst: SL
Percent Solids: 38%
Methylation Date: 06/26/18 06:56

Extraction Method: EPA 8151A
Extraction Date: 06/25/18 01:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	435	27.4	1	A
2,4,5-T	ND		ug/kg	435	13.5	1	A
2,4,5-TP (Silvex)	ND		ug/kg	435	11.6	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	98		30-150	B

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01 D
Client ID: SS-2
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:10
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/26/18 14:14
Analyst: JW
Percent Solids: 38%

Extraction Method: EPA 3546
Extraction Date: 06/25/18 05:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/25/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	42.0	8.23	10	A
Lindane	ND		ug/kg	17.5	7.83	10	A
Alpha-BHC	ND		ug/kg	17.5	4.98	10	A
Beta-BHC	ND		ug/kg	42.0	15.9	10	A
Heptachlor	ND		ug/kg	21.0	9.43	10	A
Aldrin	ND		ug/kg	42.0	14.8	10	A
Heptachlor epoxide	ND		ug/kg	78.8	23.6	10	A
Endrin	ND		ug/kg	17.5	7.18	10	A
Endrin aldehyde	ND		ug/kg	52.6	18.4	10	A
Endrin ketone	ND		ug/kg	42.0	10.8	10	A
Dieldrin	ND		ug/kg	26.3	13.1	10	A
4,4'-DDE	ND		ug/kg	42.0	9.72	10	A
4,4'-DDD	ND		ug/kg	42.0	15.0	10	A
4,4'-DDT	ND		ug/kg	78.8	33.8	10	A
Endosulfan I	ND		ug/kg	42.0	9.93	10	A
Endosulfan II	ND		ug/kg	42.0	14.0	10	A
Endosulfan sulfate	ND		ug/kg	17.5	8.34	10	A
Methoxychlor	ND		ug/kg	78.8	24.5	10	A
Toxaphene	ND		ug/kg	788	221.	10	A
cis-Chlordane	ND		ug/kg	52.6	14.6	10	A
trans-Chlordane	ND		ug/kg	52.6	13.9	10	A
Chlordane	ND		ug/kg	342	139.	10	A

Project Name: 1585 HERTEL AVE. SITE **Lab Number:** L1823203

Project Number: 0437-017-001-003 **Report Date:** 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01 D
Client ID: SS-2
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:10
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	141		30-150	A

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-02 D
Client ID: SS-3
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:20
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/26/18 14:26
Analyst: JW
Percent Solids: 51%

Extraction Method: EPA 3546
Extraction Date: 06/25/18 05:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/25/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	29.6	5.80	10	A
Lindane	ND		ug/kg	12.3	5.51	10	A
Alpha-BHC	ND		ug/kg	12.3	3.50	10	A
Beta-BHC	ND		ug/kg	29.6	11.2	10	A
Heptachlor	ND		ug/kg	14.8	6.64	10	A
Aldrin	ND		ug/kg	29.6	10.4	10	A
Heptachlor epoxide	ND		ug/kg	55.5	16.6	10	A
Endrin	ND		ug/kg	12.3	5.06	10	A
Endrin aldehyde	ND		ug/kg	37.0	13.0	10	A
Endrin ketone	ND		ug/kg	29.6	7.62	10	A
Dieldrin	ND		ug/kg	18.5	9.25	10	A
4,4'-DDE	ND		ug/kg	29.6	6.85	10	A
4,4'-DDD	ND		ug/kg	29.6	10.6	10	A
4,4'-DDT	ND		ug/kg	55.5	23.8	10	A
Endosulfan I	ND		ug/kg	29.6	7.00	10	A
Endosulfan II	ND		ug/kg	29.6	9.89	10	A
Endosulfan sulfate	ND		ug/kg	12.3	5.87	10	A
Methoxychlor	ND		ug/kg	55.5	17.3	10	A
Toxaphene	ND		ug/kg	555	155.	10	A
cis-Chlordane	ND		ug/kg	37.0	10.3	10	A
trans-Chlordane	ND		ug/kg	37.0	9.77	10	A
Chlordane	ND		ug/kg	240	98.1	10	A

Project Name: 1585 HERTEL AVE. SITE **Lab Number:** L1823203

Project Number: 0437-017-001-003 **Report Date:** 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-02 D
Client ID: SS-3
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:20
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	37		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	61		30-150	A

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-02 D
Client ID: SS-3
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:20
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/27/18 18:20
Analyst: KEG
Percent Solids: 51%
Methylation Date: 06/26/18 23:19

Extraction Method: EPA 8151A
Extraction Date: 06/25/18 14:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	6330	399.	20	A
2,4,5-T	ND		ug/kg	6330	196.	20	A
2,4,5-TP (Silvex)	ND		ug/kg	6330	168.	20	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**0**	Q	30-150	A
DCAA	**0**	Q	30-150	B

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/26/18 13:11
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 06/25/18 05:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/25/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1129286-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.634	0.283	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.4	5.04	A

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/26/18 13:11
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 06/25/18 05:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/25/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1129286-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	114		30-150	A

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/27/18 03:59
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 06/25/18 01:16

Methylation Date: 06/26/18 06:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1129296-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.03	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	127		30-150	B

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/27/18 17:21
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 06/25/18 14:48

Methylation Date: 06/26/18 23:19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02 Batch: WG1129496-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	64		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1129286-2 WG1129286-3									
Delta-BHC	110		99		30-150	11		30	A
Lindane	106		97		30-150	9		30	A
Alpha-BHC	107		98		30-150	9		30	A
Beta-BHC	97		91		30-150	6		30	A
Heptachlor	91		81		30-150	12		30	A
Aldrin	103		91		30-150	12		30	A
Heptachlor epoxide	101		88		30-150	14		30	A
Endrin	109		98		30-150	11		30	A
Endrin aldehyde	102		86		30-150	17		30	A
Endrin ketone	120		106		30-150	12		30	A
Dieldrin	113		101		30-150	11		30	A
4,4'-DDE	107		95		30-150	12		30	A
4,4'-DDD	110		98		30-150	12		30	A
4,4'-DDT	115		102		30-150	12		30	A
Endosulfan I	105		94		30-150	11		30	A
Endosulfan II	112		99		30-150	12		30	A
Endosulfan sulfate	108		97		30-150	11		30	A
Methoxychlor	104		94		30-150	10		30	A
cis-Chlordane	94		86		30-150	9		30	A
trans-Chlordane	105		96		30-150	9		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1129286-2 WG1129286-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		71		30-150	B
Decachlorobiphenyl	113		100		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		77		30-150	A
Decachlorobiphenyl	131		108		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1129296-2 WG1129296-3									
2,4-D	112		144		30-150	25		30	A
2,4,5-T	79		84		30-150	6		30	A
2,4,5-TP (Silvex)	142		150		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	105		117		30-150	A
DCAA	87		91		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1129496-2 WG1129496-3									
2,4-D	68		65		30-150	5		30	A
2,4,5-T	71		69		30-150	3		30	A
2,4,5-TP (Silvex)	77		83		30-150	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	72		83		30-150	A
DCAA	80		65		30-150	B

METALS

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01
Client ID: SS-2
Sample Location: BUFFALO, NY
Date Collected: 06/19/18 12:10
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 38%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3860		mg/kg	20.7	5.59	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Antimony, Total	3.75	J	mg/kg	10.4	0.787	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Arsenic, Total	6.94		mg/kg	2.07	0.431	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Barium, Total	125		mg/kg	2.07	0.360	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Beryllium, Total	0.435	J	mg/kg	1.04	0.068	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Cadmium, Total	1.76	J	mg/kg	2.07	0.203	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Calcium, Total	53400		mg/kg	20.7	7.25	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Chromium, Total	45.9		mg/kg	2.07	0.199	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Cobalt, Total	3.95	J	mg/kg	4.14	0.344	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Copper, Total	253		mg/kg	2.07	0.534	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Iron, Total	20500		mg/kg	10.4	1.87	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Lead, Total	285		mg/kg	10.4	0.555	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Magnesium, Total	6820		mg/kg	20.7	3.19	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Manganese, Total	397		mg/kg	2.07	0.329	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Mercury, Total	0.153	J	mg/kg	0.165	0.035	1	06/23/18 09:00	06/25/18 14:29	EPA 7471B	1,7471B	MG
Nickel, Total	21.3		mg/kg	5.18	0.501	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Potassium, Total	1070		mg/kg	518	29.8	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Selenium, Total	0.973	J	mg/kg	4.14	0.534	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	2.07	0.586	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Sodium, Total	508		mg/kg	414	6.52	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	4.14	0.652	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Vanadium, Total	6.42		mg/kg	2.07	0.420	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC
Zinc, Total	844		mg/kg	10.4	0.607	2	06/23/18 11:00	06/25/18 19:56	EPA 3050B	1,6010C	LC

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-02
Client ID: SS-3
Sample Location: BUFFALO, NY
Date Collected: 06/19/18 12:20
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 51%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4710		mg/kg	15.0	4.04	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Antimony, Total	2.17	J	mg/kg	7.48	0.569	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Arsenic, Total	7.54		mg/kg	1.50	0.311	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Barium, Total	148		mg/kg	1.50	0.260	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Beryllium, Total	0.269	J	mg/kg	0.748	0.049	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Cadmium, Total	7.45		mg/kg	1.50	0.147	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Calcium, Total	27900		mg/kg	15.0	5.24	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Chromium, Total	47.0		mg/kg	1.50	0.144	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Cobalt, Total	20.0		mg/kg	2.99	0.248	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Copper, Total	201		mg/kg	1.50	0.386	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Iron, Total	12500		mg/kg	7.48	1.35	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Lead, Total	801		mg/kg	7.48	0.401	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Magnesium, Total	8540		mg/kg	15.0	2.30	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Manganese, Total	359		mg/kg	1.50	0.238	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Mercury, Total	3.14		mg/kg	0.122	0.026	1	06/23/18 09:00	06/25/18 14:31	EPA 7471B	1,7471B	MG
Nickel, Total	42.0		mg/kg	3.74	0.362	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Potassium, Total	658		mg/kg	374	21.6	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Selenium, Total	1.44	J	mg/kg	2.99	0.386	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	1.50	0.424	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Sodium, Total	235	J	mg/kg	299	4.71	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	2.99	0.471	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Vanadium, Total	17.2		mg/kg	1.50	0.304	2	06/23/18 11:00	06/25/18 20:00	EPA 3050B	1,6010C	LC
Zinc, Total	10000		mg/kg	74.8	4.38	20	06/23/18 11:00	06/26/18 00:56	EPA 3050B	1,6010C	LC

Project Name: 1585 HERTEL AVE. SITE **Lab Number:** L1823203

Project Number: 0437-017-001-003 **Report Date:** 06/28/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1129027-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	06/23/18 09:00	06/25/18 12:24	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1129068-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Calcium, Total	2.54	J	mg/kg	4.00	1.40	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Iron, Total	0.544	J	mg/kg	2.00	0.361	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Manganese, Total	0.456		mg/kg	0.400	0.064	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Potassium, Total	ND		mg/kg	100	5.76	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/23/18 11:00	06/26/18 10:59	1,6010C	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/23/18 11:00	06/25/18 09:10	1,6010C	LC

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003
Lab Number: L1823203
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1129027-2 SRM Lot Number: D098-540								
Mercury, Total	108		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1129068-2 SRM Lot Number: D098-540					
Aluminum, Total	60	-	47-153	-	
Antimony, Total	128	-	6-194	-	
Arsenic, Total	103	-	83-117	-	
Barium, Total	86	-	82-118	-	
Beryllium, Total	91	-	83-117	-	
Cadmium, Total	100	-	82-117	-	
Calcium, Total	91	-	81-118	-	
Chromium, Total	91	-	83-119	-	
Cobalt, Total	103	-	84-116	-	
Copper, Total	103	-	84-116	-	
Iron, Total	78	-	60-140	-	
Lead, Total	96	-	82-117	-	
Magnesium, Total	85	-	76-124	-	
Manganese, Total	88	-	82-118	-	
Nickel, Total	100	-	82-117	-	
Potassium, Total	79	-	69-131	-	
Selenium, Total	107	-	78-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	91	-	74-126	-	
Thallium, Total	100	-	80-119	-	
Vanadium, Total	87	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1129068-2 SRM Lot Number: D098-540					
Zinc, Total	96	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1129027-3 WG1129027-4 QC Sample: L1823823-08 Client ID: MS Sample												
Mercury, Total	0.256	0.141	0.474	**155**	Q	0.468	**148**	Q	80-120	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

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): 01-02 QC Batch ID: WG1129068-3 WG1129068-4 QC Sample: L1823823-08 Client ID: MS Sample											
Aluminum, Total	7060	177	8310	**708**	Q	8100	**598**	Q	75-125	3	20
Antimony, Total	ND	44.2	35.7	81		32.8	75		75-125	8	20
Arsenic, Total	8.27	10.6	18.6	97		18.6	99		75-125	0	20
Barium, Total	91.5	177	278	106		258	96		75-125	7	20
Beryllium, Total	0.348J	4.42	4.32	98		4.15	95		75-125	4	20
Cadmium, Total	ND	4.5	3.62	80		3.46	78		75-125	5	20
Calcium, Total	32200	883	9240	**0**	Q	7780	**0**	Q	75-125	17	20
Chromium, Total	9.61	17.7	27.0	98		26.2	95		75-125	3	20
Cobalt, Total	6.24	44.2	47.4	93		45.5	90		75-125	4	20
Copper, Total	32.7	22.1	55.3	102		52.0	89		75-125	6	20
Iron, Total	17900	88.3	18000	113		17600	**0**	Q	75-125	2	20
Lead, Total	74.6	45	115	90		111	82		75-125	4	20
Magnesium, Total	2370	883	3560	**135**	Q	3050	78		75-125	15	20
Manganese, Total	487.	44.2	508	**48**	Q	559	**166**	Q	75-125	10	20
Nickel, Total	11.8	44.2	53.6	95		51.7	92		75-125	4	20
Potassium, Total	533.	883	1420	100		1390	98		75-125	2	20
Selenium, Total	0.226J	10.6	10.1	95		9.85	94		75-125	3	20
Silver, Total	ND	26.5	29.6	112		28.3	108		75-125	4	20
Sodium, Total	454.	883	1450	113		1310	98		75-125	10	20
Thallium, Total	ND	10.6	8.46	80		8.21	79		75-125	3	20
Vanadium, Total	11.8	44.2	51.9	91		49.4	86		75-125	5	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

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): 01-02 QC Batch ID: WG1129068-3 WG1129068-4 QC Sample: L1823823-08 Client ID: MS Sample										
Zinc, Total	86.3	44.2	144	**131**	Q	136	114	75-125	6	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-01
Client ID: SS-2
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:10
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	38.0		%	0.100	NA	1	-	06/21/18 13:07	121,2540G	RI

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823203-02
Client ID: SS-3
Sample Location: BUFFALO, NY

Date Collected: 06/19/18 12:20
Date Received: 06/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	51.4		%	0.100	NA	1	-	06/21/18 13:07	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE. SITE

Project Number: 0437-017-001-003

Lab Number: L1823203

Report Date: 06/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1128386-1 QC Sample: L1823391-01 Client ID: DUP Sample						
Solids, Total	92.1	92.4	%	0		20

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

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(*)
L1823203-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1823203-01B	Vial Large Septa unpreserved (4oz)	A	NA		2.6	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1823203-01C	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1823203-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1823203-02B	Vial Large Septa unpreserved (4oz)	A	NA		2.6	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1823203-02C	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE. SITE	**Lab Number:**	L1823203
Project Number:	0437-017-001-003	**Report Date:**	06/28/18

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE. SITE	**Lab Number:**	L1823203
Project Number:	0437-017-001-003	**Report Date:**	06/28/18

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE. SITE	**Lab Number:**	L1823203
Project Number:	0437-017-001-003	**Report Date:**	06/28/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 6/21/18

ALPHA Job #: L1823203

Client Information
Client: Benchmark Env.
Address: 2558 Hamburg Turnpike Suite 300 Lackawanna NY 14218
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: TBlack@TurnkeyNe.com

Project Information
Project Name: 1585 Hertel Ave Site
Project Location: Buffalo NY
Project #: 0437-017-001-0003
(Use Project name as Project #): X
Project Manager: Chris Bauer
ALPHAQuote #:

Turn-Around Time
Standard: X — 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:
CAT B

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	TCL SVOC	PEST, Herb, PCB	TAL METALS	Sample Specific Comments	Total Bottle
23203-01	SS-2	6/19/18	1210	Soil	TMB	X	X	X		3
02	SS-3	6/19/18	1220	Soil	TMB	X	X	X		

Container Type: A A A
Preservative: 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
	6/19/18 1700		
DAL 6/20/18 1017		DAL 6/20/18 0935	
			6/21/18 0100

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:	L1825323
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL GWM
Project Number:	B0437-017-001-005
Report Date:	07/27/18

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

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1825323-01	MW-1	WATER	BUFFALO, NY	07/02/18 12:43	07/03/18
L1825323-02	MW-2	WATER	BUFFALO, NY	07/02/18 10:39	07/03/18
L1825323-03	BLIND DUP	WATER	BUFFALO, NY	07/02/18 12:00	07/03/18
L1825323-04	MW-3	WATER	BUFFALO, NY	07/02/18 09:50	07/03/18
L1825323-05	MW-4	WATER	BUFFALO, NY	07/02/18 13:15	07/03/18
L1825323-06	FIELD BLANK	WATER	BUFFALO, NY	07/02/18 09:30	07/03/18
L1825323-07	MW-1	WATER	BUFFALO, NY	07/18/18 10:46	07/19/18
L1825323-08	MW-2	WATER	BUFFALO, NY	07/18/18 07:48	07/19/18
L1825323-09	BLIND DUP	WATER	BUFFALO, NY	07/18/18 12:00	07/19/18
L1825323-10	MW-3	WATER	BUFFALO, NY	07/18/18 10:00	07/19/18
L1825323-11	MW-4	WATER	BUFFALO, NY	07/18/18 11:16	07/19/18
L1825323-12	TRIP BLANK	WATER	BUFFALO, NY	07/18/18 00:00	07/19/18

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Case Narrative

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

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

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

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

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

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

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323
Project Number: B0437-017-001-005 **Report Date:** 07/27/18

Case Narrative (continued)

Report Submission
July 27, 2018: This final report includes the results of all requested analyses.
July 23, 2018: This preliminary report includes the Herbicide results.
July 23, 2018: This is a preliminary report.

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

Perfluorinated Alkyl Acids by Isotope Dilution
L1825323 and WG1135994: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
The WG1135994-2/-3 LCS/LCSD RPD, associated with L1825323-01, -02, -03, and -06, is above the acceptance criteria for perfluorooctanesulfonamide (fosa) (32%).
WG1136327 CCALS: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Since the associated target analytes were within acceptance criteria, no actions were taken and analysis proceeded.
The WG1136327-2 and WG1136327-4 continuing calibration standards, associated with L1825323 and the associated QC, had the responses for Perfluorodecanesulfonic Acid (PFDS) (69.1%D and 65.2%D, respectively) outside the acceptance criteria for the method. This compound represented less than 10% of the total analytes evaluated, and the %D were within 60-140%, therefore, analysis proceeded.

Semivolatile Organics
The WG1138010-4/-5 MS/MSD recoveries, performed on L1825323-08, are below the acceptance criteria for 3,3'-dichlorobenzidine (0%/0%) due to the concentration of this compound falling below the reported detection limit.

PCBs
L1825323-01 through -05 were extracted with the method required holding time exceeded.

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

Case Narrative (continued)

Total Metals

The WG1134646-3/-4 MS/MSD recoveries for calcium (380%/340%), magnesium (362%/342%), and sodium (430%/370%), performed on L1825323-02, do not apply because the sample concentrations are greater than four times the spike amounts added.

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

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 07/27/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07
Client ID: MW-1
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:46
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/22/18 16:56
Analyst: PD

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: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07 Date Collected: 07/18/18 10:46

Client ID: MW-1 Date Received: 07/19/18

Sample Location: 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	2.2	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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08
Client ID: MW-2
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 07:48
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/22/18 17:21
Analyst: PD

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: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08 Date Collected: 07/18/18 07:48

Client ID: MW-2 Date Received: 07/19/18

Sample Location: 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	2.2	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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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

Tentatively Identified Compounds				
Total TIC Compounds	3.81	J	ug/l	1
1-Propene, 2-methyl-	1.95	NJ	ug/l	1
Unknown	1.86	J	ug/l	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08 Date Collected: 07/18/18 07:48

Client ID: MW-2 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09
Client ID: BLIND DUP
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 12:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/22/18 17:46
Analyst: PD

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: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09
Client ID: BLIND DUP
Sample Location: BUFFALO, NY
Date Collected: 07/18/18 12:00
Date Received: 07/19/18
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	2.3	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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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

Tentatively Identified Compounds				
Total TIC Compounds	1.90	J	ug/l	1
Dimethyl ether	1.90	NJ	ug/l	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09 Date Collected: 07/18/18 12:00

Client ID: BLIND DUP Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/22/18 18:11
Analyst: PD

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: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10 Date Collected: 07/18/18 10:00

Client ID: MW-3 Date Received: 07/19/18

Sample Location: 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	3.0	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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11
Client ID: MW-4
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 11:16
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/22/18 18:36
Analyst: PD

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: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11 Date Collected: 07/18/18 11:16

Client ID: MW-4 Date Received: 07/19/18

Sample Location: 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	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	1.1	J	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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-12
Client ID: TRIP BLANK
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 00:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/22/18 16:30
Analyst: PD

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: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-12 Date Collected: 07/18/18 00:00

Client ID: TRIP BLANK Date Received: 07/19/18

Sample Location: 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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	100		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/22/18 15:15
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-12 Batch: WG1138340-5					
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: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/22/18 15:15
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-12 Batch: WG1138340-5					
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
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	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: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/22/18 15:15
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-12 Batch: WG1138340-5					
Tentatively Identified Compounds					
Total TIC Compounds	2.15	J	ug/l		
Unknown	2.15	J	ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-12 Batch: WG1138340-3 WG1138340-4								
Methylene chloride	98		99		70-130	1		20
1,1-Dichloroethane	90		89		70-130	1		20
Chloroform	91		89		70-130	2		20
Carbon tetrachloride	87		83		63-132	5		20
1,2-Dichloropropane	91		89		70-130	2		20
Dibromochloromethane	83		83		63-130	0		20
1,1,2-Trichloroethane	92		92		70-130	0		20
Tetrachloroethene	83		82		70-130	1		20
Chlorobenzene	90		91		75-130	1		20
Trichlorofluoromethane	95		92		62-150	3		20
1,2-Dichloroethane	92		92		70-130	0		20
1,1,1-Trichloroethane	89		87		67-130	2		20
Bromodichloromethane	92		91		67-130	1		20
trans-1,3-Dichloropropene	91		91		70-130	0		20
cis-1,3-Dichloropropene	91		90		70-130	1		20
Bromoform	88		87		54-136	1		20
1,1,2,2-Tetrachloroethane	90		90		67-130	0		20
Benzene	86		86		70-130	0		20
Toluene	88		89		70-130	1		20
Ethylbenzene	89		89		70-130	0		20
Chloromethane	82		81		64-130	1		20
Bromomethane	75		75		39-139	0		20
Vinyl chloride	86		85		55-140	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-12 Batch: WG1138340-3 WG1138340-4								
Chloroethane	95		96		55-138	1		20
1,1-Dichloroethene	84		83		61-145	1		20
trans-1,2-Dichloroethene	86		84		70-130	2		20
Trichloroethene	82		80		70-130	2		20
1,2-Dichlorobenzene	91		93		70-130	2		20
1,3-Dichlorobenzene	93		93		70-130	0		20
1,4-Dichlorobenzene	92		94		70-130	2		20
Methyl tert butyl ether	87		86		63-130	1		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	88		87		70-130	1		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	84		80		36-147	5		20
Acetone	95		91		58-148	4		20
Carbon disulfide	87		86		51-130	1		20
2-Butanone	86		86		63-138	0		20
4-Methyl-2-pentanone	82		82		59-130	0		20
2-Hexanone	80		80		57-130	0		20
Bromochloromethane	91		88		70-130	3		20
1,2-Dibromoethane	84		86		70-130	2		20
n-Butylbenzene	89		91		53-136	2		20
sec-Butylbenzene	86		87		70-130	1		20
1,2-Dibromo-3-chloropropane	79		80		41-144	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-12 Batch: WG1138340-3 WG1138340-4								
Isopropylbenzene	90		90		70-130	0		20
p-Isopropyltoluene	88		88		70-130	0		20
n-Propylbenzene	91		92		69-130	1		20
1,2,3-Trichlorobenzene	80		79		70-130	1		20
1,2,4-Trichlorobenzene	85		85		70-130	0		20
1,3,5-Trimethylbenzene	93		92		64-130	1		20
1,2,4-Trimethylbenzene	94		95		70-130	1		20
Methyl Acetate	85		83		70-130	2		20
Cyclohexane	86		82		70-130	5		20
1,4-Dioxane	96		94		56-162	2		20
Freon-113	87		82		70-130	6		20
Methyl cyclohexane	77		72		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	104		103		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

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 Associated sample(s): 07-12 QC Batch ID: WG1138340-6 WG1138340-7 QC Sample: L1825323-08 Client ID: MW-2												
Methylene chloride	ND	10	10	100		11	110		70-130	10		20
1,1-Dichloroethane	ND	10	9.6	96		10	100		70-130	4		20
Chloroform	ND	10	9.5	95		10	100		70-130	5		20
Carbon tetrachloride	ND	10	9.2	92		10	100		63-132	8		20
1,2-Dichloropropane	ND	10	9.3	93		10	100		70-130	7		20
Dibromochloromethane	ND	10	7.8	78		8.8	88		63-130	12		20
1,1,2-Trichloroethane	ND	10	9.2	92		10	100		70-130	8		20
Tetrachloroethene	ND	10	9.0	90		9.5	95		70-130	5		20
Chlorobenzene	ND	10	9.4	94		10	100		75-130	6		20
Trichlorofluoromethane	ND	10	11	110		12	120		62-150	9		20
1,2-Dichloroethane	ND	10	9.1	91		10	100		70-130	9		20
1,1,1-Trichloroethane	ND	10	9.4	94		10	100		67-130	6		20
Bromodichloromethane	ND	10	9.0	90		9.9	99		67-130	10		20
trans-1,3-Dichloropropene	ND	10	8.6	86		9.5	95		70-130	10		20
cis-1,3-Dichloropropene	ND	10	8.4	84		9.3	93		70-130	10		20
Bromoform	ND	10	7.8	78		8.9	89		54-136	13		20
1,1,2,2-Tetrachloroethane	ND	10	8.6	86		9.7	97		67-130	12		20
Benzene	ND	10	9.2	92		9.9	99		70-130	7		20
Toluene	ND	10	9.5	95		10	100		70-130	5		20
Ethylbenzene	ND	10	9.6	96		10	100		70-130	4		20
Chloromethane	ND	10	9.8	98		10	100		64-130	2		20
Bromomethane	ND	10	6.9	69		7.9	79		39-139	14		20
Vinyl chloride	ND	10	10	100		11	110		55-140	10		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

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 Associated sample(s): 07-12 QC Batch ID: WG1138340-6 WG1138340-7 QC Sample: L1825323-08 Client ID: MW-2												
Chloroethane	ND	10	11	110		11	110		55-138	0		20
1,1-Dichloroethene	ND	10	9.4	94		10	100		61-145	6		20
trans-1,2-Dichloroethene	ND	10	9.1	91		9.8	98		70-130	7		20
Trichloroethene	ND	10	8.6	86		9.5	95		70-130	10		20
1,2-Dichlorobenzene	ND	10	9.2	92		10	100		70-130	8		20
1,3-Dichlorobenzene	ND	10	9.5	95		10	100		70-130	5		20
1,4-Dichlorobenzene	ND	10	9.5	95		10	100		70-130	5		20
Methyl tert butyl ether	ND	10	8.2	82		9.2	92		63-130	11		20
p/m-Xylene	ND	20	19	95		20	100		70-130	5		20
o-Xylene	ND	20	19	95		20	100		70-130	5		20
cis-1,2-Dichloroethene	ND	10	9.1	91		9.6	96		70-130	5		20
Styrene	ND	20	19	95		20	100		70-130	5		20
Dichlorodifluoromethane	ND	10	9.7	97		10	100		36-147	3		20
Acetone	2.2J	10	9.9	99		12	120		58-148	19		20
Carbon disulfide	ND	10	9.8	98		10	100		51-130	2		20
2-Butanone	ND	10	8.1	81		9.5	95		63-138	16		20
4-Methyl-2-pentanone	ND	10	7.7	77		8.9	89		59-130	14		20
2-Hexanone	ND	10	7.5	75		8.5	85		57-130	13		20
Bromochloromethane	ND	10	9.0	90		9.9	99		70-130	10		20
1,2-Dibromoethane	ND	10	8.2	82		9.1	91		70-130	10		20
n-Butylbenzene	ND	10	9.6	96		10	100		53-136	4		20
sec-Butylbenzene	ND	10	9.4	94		10	100		70-130	6		20
1,2-Dibromo-3-chloropropane	ND	10	6.6	66		8.1	81		41-144	20		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

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 Associated sample(s): 07-12 QC Batch ID: WG1138340-6 WG1138340-7 QC Sample: L1825323-08 Client ID: MW-2												
Isopropylbenzene	ND	10	9.6	96		10	100		70-130	4		20
p-Isopropyltoluene	ND	10	9.5	95		10	100		70-130	5		20
n-Propylbenzene	ND	10	9.9	99		10	100		69-130	1		20
1,2,3-Trichlorobenzene	ND	10	6.7	**67**	Q	8.5	85		70-130	**24**	Q	20
1,2,4-Trichlorobenzene	ND	10	7.8	78		9.1	91		70-130	15		20
1,3,5-Trimethylbenzene	ND	10	10	100		11	110		64-130	10		20
1,2,4-Trimethylbenzene	ND	10	10	100		11	110		70-130	10		20
Methyl Acetate	ND	10	7.3	73		8.3	83		70-130	13		20
Cyclohexane	ND	10	9.8J	98		10	100		70-130	2		20
1,4-Dioxane	ND	500	320	64		500	100		56-162	**44**	Q	20
Freon-113	ND	10	9.7	97		10	100		70-130	3		20
Methyl cyclohexane	ND	10	8.6J	86		9.1J	91		70-130	6		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	101		102		70-130
Toluene-d8	103		103		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-01
Client ID: MW-1
Sample Location: BUFFALO, NY

Date Collected: 07/02/18 12:43
Date Received: 07/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 07/17/18 16:27
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 07/16/18 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	22.2		ng/l	2.00	0.131	1
Perfluoropentanoic Acid (PFPeA)	1.57	J	ng/l	2.00	0.086	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.110	1
Perfluorohexanoic Acid (PFHxA)	2.33		ng/l	2.00	0.126	1
Perfluoroheptanoic Acid (PFHpA)	1.20	J	ng/l	2.00	0.092	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.108	1
Perfluorooctanoic Acid (PFOA)	1.80	J	ng/l	2.00	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.276	J	ng/l	2.00	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.155	1
Perfluorononanoic Acid (PFNA)	0.668	J	ng/l	2.00	0.101	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.112	1
Perfluorodecanoic Acid (PFDA)	1.07	J	ng/l	2.00	0.190	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	0.291	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.250	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.191	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.222	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.227	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.373	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.092	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.090	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.072	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-01 Date Collected: 07/02/18 12:43

Client ID: MW-1 Date Received: 07/03/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	79		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	69		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**206**	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**172**	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	118		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**41**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	120		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		50-150

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-02
Client ID: MW-2
Sample Location: BUFFALO, NY

Date Collected: 07/02/18 10:39
Date Received: 07/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 07/17/18 16:44
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 07/16/18 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	15.9		ng/l	2.00	0.131	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.086	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.110	1
Perfluorohexanoic Acid (PFHxA)	0.936	J	ng/l	2.00	0.126	1
Perfluoroheptanoic Acid (PFHpA)	0.912	J	ng/l	2.00	0.092	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.108	1
Perfluorooctanoic Acid (PFOA)	1.02	J	ng/l	2.00	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.676	J	ng/l	2.00	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.155	1
Perfluorononanoic Acid (PFNA)	0.484	J	ng/l	2.00	0.101	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.112	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.190	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	0.291	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.250	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.191	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.222	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.227	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.373	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.092	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.090	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.072	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-02 Date Collected: 07/02/18 10:39

Client ID: MW-2 Date Received: 07/03/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	79		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**204**	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**158**	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	90		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**37**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	126		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		50-150

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-03
Client ID: BLIND DUP
Sample Location: BUFFALO, NY

Date Collected: 07/02/18 12:00
Date Received: 07/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 07/17/18 17:33
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 07/16/18 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	5.53		ng/l	1.92	0.126	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.92	0.082	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.92	0.106	1
Perfluorohexanoic Acid (PFHxA)	1.27	J	ng/l	1.92	0.122	1
Perfluoroheptanoic Acid (PFHpA)	0.804	J	ng/l	1.92	0.089	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.92	0.103	1
Perfluorooctanoic Acid (PFOA)	0.915	J	ng/l	1.92	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.454	J	ng/l	1.92	0.186	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.92	0.149	1
Perfluorononanoic Acid (PFNA)	0.377	J	ng/l	1.92	0.097	1
Perfluorooctanesulfonic Acid (PFOS)	0.438	J	ng/l	1.92	0.107	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.92	0.183	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.92	0.280	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.92	0.241	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.92	0.184	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.92	0.214	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.92	0.218	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.915	J	ng/l	1.92	0.358	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.92	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.92	0.087	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.92	0.069	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-03 Date Collected: 07/02/18 12:00

Client ID: BLIND DUP Date Received: 07/03/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	80		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**195**	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**176**	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	115		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**39**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**238**	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		50-150

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-06
Client ID: FIELD BLANK
Sample Location: BUFFALO, NY

Date Collected: 07/02/18 09:30
Date Received: 07/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 07/17/18 11:45
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 07/16/18 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.389	J	ng/l	1.85	0.121	1
Perfluoropentanoic Acid (PFPeA)	0.400	J	ng/l	1.85	0.079	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.85	0.102	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.85	0.117	1
Perfluoroheptanoic Acid (PFHpA)	0.196	J	ng/l	1.85	0.086	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.85	0.100	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.85	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.556	J	ng/l	1.85	0.180	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.85	0.144	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.85	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.85	0.103	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.85	0.176	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.85	0.269	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.85	0.232	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.85	0.177	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.85	0.206	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.85	0.210	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.85	0.345	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.85	0.085	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.85	0.084	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.85	0.067	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-06 Date Collected: 07/02/18 09:30

Client ID: FIELD BLANK Date Received: 07/03/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	72		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	101		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**222**	Q	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**2**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**172**	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		50-150

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07
Client ID: MW-1
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:46
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/22/18 19:30
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 08:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.5	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07
Client ID: MW-1
Sample Location: BUFFALO, NY
Date Collected: 07/18/18 10:46
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	7.2	J	ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	29		10-120
4-Terphenyl-d14	104		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07
Client ID: MW-1
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:46
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/22/18 17:36
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.05	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.10		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.07	J	ug/l	0.10	0.01	1
Phenanthrene	0.10	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.01	J	ug/l	0.10	0.01	1
Pyrene	0.05	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07 Date Collected: 07/18/18 10:46

Client ID: MW-1 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	27		10-120
4-Terphenyl-d14	104		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07
Client ID: MW-1
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:46
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/26/18 18:46
Analyst: TJ

Extraction Method: EPA 3510C
Extraction Date: 07/24/18 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	69.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	17		15-110

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08
Client ID: MW-2
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 07:48
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/22/18 19:56
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 08:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08 Date Collected: 07/18/18 07:48

Client ID: MW-2 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08
Client ID: MW-2
Sample Location: BUFFALO, NY
Date Collected: 07/18/18 07:48
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	46.4	J	ug/l			1
Aldol Condensates	11.1	J	ug/l			1
Unknown	2.29	J	ug/l			1
Unknown	1.96	J	ug/l			1
Unknown	2.25	J	ug/l			1
Unknown Ketone	2.54	J	ug/l			1
Unknown	2.29	J	ug/l			1
Unknown	2.73	J	ug/l			1
Unknown	2.80	J	ug/l			1
Unknown	6.62	J	ug/l			1
Unknown Ketone	1.85	J	ug/l			1
Unknown Organic Acid	1.71	J	ug/l			1
Unknown	1.64	J	ug/l			1
Unknown Thiazole	1.67	J	ug/l			1
Unknown Phenol	2.76	J	ug/l			1
Unknown	2.22	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	**130**	Q	10-120
4-Terphenyl-d14	109		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08
Client ID: MW-2
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 07:48
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/22/18 18:03
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.10		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.06	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08 Date Collected: 07/18/18 07:48

Client ID: MW-2 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	102		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08
Client ID: MW-2
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 07:48
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/26/18 19:07
Analyst: TJ

Extraction Method: EPA 3510C
Extraction Date: 07/24/18 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	142	70.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	22		15-110

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09
Client ID: BLIND DUP
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 12:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/22/18 20:22
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 08:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09 Date Collected: 07/18/18 12:00

Client ID: BLIND DUP Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09
Client ID: BLIND DUP
Sample Location: BUFFALO, NY
Date Collected: 07/18/18 12:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	72.6	J	ug/l			1
Unknown	1.49	J	ug/l			1
Unknown	1.74	J	ug/l			1
Unknown Organic Acid	1.53	J	ug/l			1
Unknown	2.07	J	ug/l			1
Unknown	2.07	J	ug/l			1
Unknown	3.67	J	ug/l			1
Unknown	1.45	J	ug/l			1
Unknown	4.11	J	ug/l			1
Aldol Condensates	40.3	J	ug/l			1
Unknown	1.93	J	ug/l			1
Unknown	1.56	J	ug/l			1
Unknown	4.87	J	ug/l			1
Unknown	2.54	J	ug/l			1
Unknown	1.71	J	ug/l			1
Unknown Alkane	1.53	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	102		15-120
2,4,6-Tribromophenol	**133**	Q	10-120
4-Terphenyl-d14	112		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09
Client ID: BLIND DUP
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 12:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/22/18 18:30
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.13		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.06	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.09	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.03	J	ug/l	0.10	0.01	1
Pyrene	0.08	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09 Date Collected: 07/18/18 12:00

Client ID: BLIND DUP Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	107		10-120
4-Terphenyl-d14	113		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09
Client ID: BLIND DUP
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 12:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/26/18 20:07
Analyst: TJ

Extraction Method: EPA 3510C
Extraction Date: 07/24/18 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	72.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	20		15-110

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/22/18 20:49
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 08:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10 Date Collected: 07/18/18 10:00

Client ID: MW-3 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	114		10-120
4-Terphenyl-d14	106		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/22/18 18:57
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.10		ug/l	0.10	0.02	1
Hexachlorobutadiene	0.05	J	ug/l	0.50	0.05	1
Naphthalene	3.4		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.07	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.05	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.10		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Chrysene	0.05	J	ug/l	0.10	0.01	1
Acenaphthylene	0.01	J	ug/l	0.10	0.01	1
Anthracene	0.03	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.04	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01	1
Pyrene	0.10	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.64		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10 Date Collected: 07/18/18 10:00

Client ID: MW-3 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	97		10-120
4-Terphenyl-d14	108		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/26/18 20:28
Analyst: TJ

Extraction Method: EPA 3510C
Extraction Date: 07/24/18 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	72.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	18		15-110

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11
Client ID: MW-4
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 11:16
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/22/18 21:15
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 08:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11
Client ID: MW-4
Sample Location: BUFFALO, NY
Date Collected: 07/18/18 11:16
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	4.2	J	ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	99		15-120
2,4,6-Tribromophenol	**125**	Q	10-120
4-Terphenyl-d14	113		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11
Client ID: MW-4
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 11:16
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/22/18 19:24
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11 Date Collected: 07/18/18 11:16

Client ID: MW-4 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	111		10-120
4-Terphenyl-d14	107		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11
Client ID: MW-4
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 11:16
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/26/18 20:48
Analyst: TJ

Extraction Method: EPA 3510C
Extraction Date: 07/24/18 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	69.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	17		15-110

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 07/17/18 10:39
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 07/16/18 10:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03,06 Batch: WG1135994-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.131
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.086
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.110
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.126
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.092
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.108
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.050
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	0.194
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.155
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.101
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.112
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.190
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	0.291
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.956	J	ng/l	2.00	0.250
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.191
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.222
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.227
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.373
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.092
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.090
Perfluorotetradecanoic Acid (PFTA)	0.300	J	ng/l	2.00	0.072

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 07/17/18 10:39
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 07/16/18 10:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03,06 Batch: WG1135994-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	96		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	82		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**3**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	81		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		50-150

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/22/18 15:58
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 01:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-11 Batch: WG1138010-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/22/18 15:58
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 01:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-11 Batch: WG1138010-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	4.87	J	ug/l
Aldol Condensates	4.87	J	ug/l

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/22/18 15:58
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 01:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-11 Batch: WG1138010-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	98		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/22/18 15:20
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-11 Batch: WG1138082-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/22/18 15:20
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-11 Batch: WG1138082-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	99		41-149

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/26/18 17:47
Analyst: TJ

Extraction Method: EPA 3510C
Extraction Date: 07/24/18 14:30

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 07-11 Batch: WG1138774-1					
1,4-Dioxane	ND		ng/l	150	75.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	25		15-110

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03,06 Batch: WG1135994-2 WG1135994-3								
Perfluorobutanoic Acid (PFBA)	109		116		50-150	6		30
Perfluoropentanoic Acid (PFPeA)	116		122		50-150	5		30
Perfluorobutanesulfonic Acid (PFBS)	117		121		50-150	3		30
Perfluorohexanoic Acid (PFHxA)	120		128		50-150	6		30
Perfluoroheptanoic Acid (PFHpA)	107		107		50-150	0		30
Perfluorohexanesulfonic Acid (PFHxS)	125		125		50-150	0		30
Perfluorooctanoic Acid (PFOA)	110		113		50-150	3		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	123		122		50-150	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	115		126		50-150	9		30
Perfluorononanoic Acid (PFNA)	115		126		50-150	9		30
Perfluorooctanesulfonic Acid (PFOS)	106		113		50-150	6		30
Perfluorodecanoic Acid (PFDA)	120		130		50-150	8		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	122		131		50-150	7		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	111		121		50-150	9		30
Perfluoroundecanoic Acid (PFUnA)	122		117		50-150	4		30
Perfluorodecanesulfonic Acid (PFDS)	105		79		50-150	28		30
Perfluorooctanesulfonamide (FOSA)	88		121		50-150	**32**	Q	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	109		119		50-150	9		30
Perfluorododecanoic Acid (PFDoA)	119		117		50-150	2		30
Perfluorotridecanoic Acid (PFTrDA)	98		94		50-150	4		30
Perfluorotetradecanoic Acid (PFTA)	109		120		50-150	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03,06 Batch: WG1135994-2 WG1135994-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	54		69		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	71		88		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		90		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	64		76		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	69		79		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		95		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76		85		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	82		94		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	76		82		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		84		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		85		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	140		95		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	118		**175**	Q	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	72		93		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**5**	Q	**6**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60		**164**	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		82		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		68		50-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-11 Batch: WG1138010-2 WG1138010-3								
Bis(2-chloroethyl)ether	64		70		40-140	9		30
3,3'-Dichlorobenzidine	80		82		40-140	2		30
2,4-Dinitrotoluene	88		94		48-143	7		30
2,6-Dinitrotoluene	96		101		40-140	5		30
4-Chlorophenyl phenyl ether	84		91		40-140	8		30
4-Bromophenyl phenyl ether	89		97		40-140	9		30
Bis(2-chloroisopropyl)ether	50		56		40-140	11		30
Bis(2-chloroethoxy)methane	69		73		40-140	6		30
Hexachlorocyclopentadiene	75		77		40-140	3		30
Isophorone	72		77		40-140	7		30
Nitrobenzene	65		72		40-140	10		30
NDPA/DPA	87		92		40-140	6		30
n-Nitrosodi-n-propylamine	70		78		29-132	11		30
Bis(2-ethylhexyl)phthalate	81		84		40-140	4		30
Butyl benzyl phthalate	87		93		40-140	7		30
Di-n-butylphthalate	83		88		40-140	6		30
Di-n-octylphthalate	85		92		40-140	8		30
Diethyl phthalate	86		90		40-140	5		30
Dimethyl phthalate	97		98		40-140	1		30
Biphenyl	86		92		40-140	7		30
4-Chloroaniline	65		59		40-140	10		30
2-Nitroaniline	92		99		52-143	7		30
3-Nitroaniline	78		79		25-145	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-11 Batch: WG1138010-2 WG1138010-3								
4-Nitroaniline	82		84		51-143	2		30
Dibenzofuran	79		87		40-140	10		30
1,2,4,5-Tetrachlorobenzene	88		94		2-134	7		30
Acetophenone	73		79		39-129	8		30
2,4,6-Trichlorophenol	102		110		30-130	8		30
p-Chloro-m-cresol	90		96		23-97	6		30
2-Chlorophenol	72		77		27-123	7		30
2,4-Dichlorophenol	84		90		30-130	7		30
2,4-Dimethylphenol	78		80		30-130	3		30
2-Nitrophenol	80		89		30-130	11		30
4-Nitrophenol	67		76		10-80	13		30
2,4-Dinitrophenol	20		32		20-130	**46**	Q	30
4,6-Dinitro-o-cresol	45		66		20-164	**38**	Q	30
Phenol	56		60		12-110	7		30
3-Methylphenol/4-Methylphenol	79		86		30-130	8		30
2,4,5-Trichlorophenol	100		106		30-130	6		30
Carbazole	84		88		55-144	5		30
Atrazine	124		130		40-140	5		30
Benzaldehyde	67		75		40-140	11		30
Caprolactam	42		46		10-130	9		30
2,3,4,6-Tetrachlorophenol	89		102		40-140	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-11 Batch: WG1138010-2 WG1138010-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61		68		21-120
Phenol-d6	55		61		10-120
Nitrobenzene-d5	66		73		23-120
2-Fluorobiphenyl	88		95		15-120
2,4,6-Tribromophenol	102		106		10-120
4-Terphenyl-d14	95		101		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-11 Batch: WG1138082-2 WG1138082-3								
Acenaphthene	69		86		40-140	22		40
2-Chloronaphthalene	63		86		40-140	31		40
Fluoranthene	97		96		40-140	1		40
Hexachlorobutadiene	48		79		40-140	**49**	Q	40
Naphthalene	49		77		40-140	**44**	Q	40
Benzo(a)anthracene	93		91		40-140	2		40
Benzo(a)pyrene	99		98		40-140	1		40
Benzo(b)fluoranthene	100		96		40-140	4		40
Benzo(k)fluoranthene	92		89		40-140	3		40
Chrysene	93		91		40-140	2		40
Acenaphthylene	79		100		40-140	23		40
Anthracene	86		92		40-140	7		40
Benzo(ghi)perylene	112		108		40-140	4		40
Fluorene	82		95		40-140	15		40
Phenanthrene	80		86		40-140	7		40
Dibenzo(a,h)anthracene	114		111		40-140	3		40
Indeno(1,2,3-cd)pyrene	109		103		40-140	6		40
Pyrene	103		102		40-140	1		40
2-Methylnaphthalene	58		83		40-140	35		40
Pentachlorophenol	47		51		40-140	8		40
Hexachlorobenzene	80		88		40-140	10		40
Hexachloroethane	44		76		40-140	**53**	Q	40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-11 Batch: WG1138082-2 WG1138082-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	43		67		21-120
Phenol-d6	41		56		10-120
Nitrobenzene-d5	57		88		23-120
2-Fluorobiphenyl	60		77		15-120
2,4,6-Tribromophenol	77		82		10-120
4-Terphenyl-d14	98		99		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab	Associated sample(s): 07-11		Batch: WG1138774-2		WG1138774-3			
1,4-Dioxane	117		119		40-140	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	24		25		15-110

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03,06 QC Batch ID: WG1135994-4 WG1135994-5 QC Sample: L1825323-02 Client ID: MW-2												
Perfluorobutanoic Acid (PFBA)	15.9	41.7	52.5	88		55.8	104		50-150	6		30
Perfluoropentanoic Acid (PFPeA)	ND	41.7	48.4	116		44.6	116		50-150	8		30
Perfluorobutanesulfonic Acid (PFBS)	ND	41.7	50.7	122		44.9	117		50-150	12		30
Perfluorohexanoic Acid (PFHxA)	0.936J	41.7	52.2	125		47.1	122		50-150	10		30
Perfluoroheptanoic Acid (PFHpA)	0.912J	41.7	45.8	110		41.0	107		50-150	11		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	41.7	49.6	119		49.4	128		50-150	0		30
Perfluorooctanoic Acid (PFOA)	1.02J	41.7	47.2	113		46.1	120		50-150	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.676J	41.7	47.7	114		44.8	116		50-150	6		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	41.7	49.2	118		44.8	116		50-150	9		30
Perfluorononanoic Acid (PFNA)	0.484J	41.7	48.6	117		47.8	124		50-150	2		30
Perfluorooctanesulfonic Acid (PFOS)	ND	41.7	48.4	116		39.6	103		50-150	20		30
Perfluorodecanoic Acid (PFDA)	ND	41.7	51.9	125		47.4	123		50-150	9		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	41.7	48.4	116		44.4	115		50-150	9		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	41.7	47.0	113		52.6	137		50-150	11		30
Perfluoroundecanoic Acid (PFUnA)	ND	41.7	51.4	123		42.8	111		50-150	18		30
Perfluorodecanesulfonic Acid (PFDS)	ND	41.7	34.2	82		31.7	82		50-150	8		30
Perfluorooctanesulfonamide (FOSA)	ND	41.7	44.7	107		40.5	105		50-150	10		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	41.7	44.4	107		42.7	111		50-150	4		30
Perfluorododecanoic Acid (PFDoA)	ND	41.7	44.6	107		42.4	110		50-150	5		30
Perfluorotridecanoic Acid (PFTrDA)	ND	41.7	49.8	120		50.4	131		50-150	1		30
Perfluorotetradecanoic Acid (PFTA)	ND	41.7	47.4	114		48.2	125		50-150	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03,06 QC Batch ID: WG1135994-4 WG1135994-5 QC Sample: L1825323-02 Client ID: MW-2

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**187**	Q	**155**	Q	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**212**	Q	**196**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**160**	Q	**221**	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	99		97		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	82		103		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		98		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75		75		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		86		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		91		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	76		82		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		99		50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		92		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	79		82		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**37**	Q	**40**	Q	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		87		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		86		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		92		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		86		50-150

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1138010-4 WG1138010-5 QC Sample: L1825323-08 Client ID: MW-2												
Bis(2-chloroethyl)ether	ND	18.2	14	77		12	66		40-140	15		30
3,3'-Dichlorobenzidine	ND	18.2	ND	**0**	Q	ND	**0**	Q	40-140	NC		30
2,4-Dinitrotoluene	ND	18.2	18	99		18	99		48-143	0		30
2,6-Dinitrotoluene	ND	18.2	21	120		19	100		40-140	10		30
4-Chlorophenyl phenyl ether	ND	18.2	17	94		16	88		40-140	6		30
4-Bromophenyl phenyl ether	ND	18.2	19	100		18	99		40-140	5		30
Bis(2-chloroisopropyl)ether	ND	18.2	11	61		9.4	52		40-140	16		30
Bis(2-chloroethoxy)methane	ND	18.2	15	83		13	72		40-140	14		30
Hexachlorocyclopentadiene	ND	18.2	18J	99		16.J	88		40-140	12		30
Isophorone	ND	18.2	15	83		14	77		40-140	7		30
Nitrobenzene	ND	18.2	14	77		12	66		40-140	15		30
NDPA/DPA	ND	18.2	18	99		16	88		40-140	12		30
n-Nitrosodi-n-propylamine	ND	18.2	15	83		13	72		29-132	14		30
Bis(2-ethylhexyl)phthalate	ND	18.2	17	94		16	88		40-140	6		30
Butyl benzyl phthalate	ND	18.2	21	120		19	100		40-140	10		30
Di-n-butylphthalate	ND	18.2	19	100		18	99		40-140	5		30
Di-n-octylphthalate	ND	18.2	20	110		19	100		40-140	5		30
Diethyl phthalate	ND	18.2	18	99		17	94		40-140	6		30
Dimethyl phthalate	ND	18.2	20	110		18	99		40-140	11		30
Biphenyl	ND	18.2	18	99		16	88		40-140	12		30
4-Chloroaniline	ND	18.2	7.0	**39**	Q	7.1	**39**	Q	40-140	1		30
2-Nitroaniline	ND	18.2	20	110		20	110		52-143	0		30
3-Nitroaniline	ND	18.2	7.1	39		8.4	46		25-145	17		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1138010-4 WG1138010-5 QC Sample: L1825323-08 Client ID: MW-2												
4-Nitroaniline	ND	18.2	9.0	**50**	Q	10	55		51-143	11		30
Dibenzofuran	ND	18.2	16	88		14	77		40-140	13		30
1,2,4,5-Tetrachlorobenzene	ND	18.2	18	99		16	88		2-134	12		30
Acetophenone	ND	18.2	15	83		14	77		39-129	7		30
2,4,6-Trichlorophenol	ND	18.2	22	120		20	110		30-130	10		30
p-Chloro-m-cresol	ND	18.2	20	**110**	Q	19	**100**	Q	23-97	5		30
2-Chlorophenol	ND	18.2	15	83		13	72		27-123	14		30
2,4-Dichlorophenol	ND	18.2	18	99		16	88		30-130	12		30
2,4-Dimethylphenol	ND	18.2	17	94		16	88		30-130	6		30
2-Nitrophenol	ND	18.2	17	94		16	88		30-130	6		30
4-Nitrophenol	ND	18.2	19	**100**	Q	17	**94**	Q	10-80	11		30
2,4-Dinitrophenol	ND	18.2	18J	99		17.J	94		20-130	6		30
4,6-Dinitro-o-cresol	ND	18.2	19	100		18	99		20-164	5		30
Phenol	ND	18.2	12	66		11	61		12-110	9		30
3-Methylphenol/4-Methylphenol	ND	18.2	16	88		15	83		30-130	6		30
2,4,5-Trichlorophenol	ND	18.2	24	130		22	120		30-130	9		30
Carbazole	ND	18.2	18	99		16	88		55-144	12		30
Atrazine	ND	18.2	26	140		25	140		40-140	4		30
Benzaldehyde	ND	18.2	14	77		13	72		40-140	7		30
Caprolactam	ND	18.2	10	55		11	61		10-130	10		30
2,3,4,6-Tetrachlorophenol	ND	18.2	22	120		20	110		40-140	10		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1138010-4 WG1138010-5 QC Sample: L1825323-08 Client ID: MW-2												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
2,4,6-Tribromophenol	**127**	Q	119		10-120
2-Fluorobiphenyl	103		90		15-120
2-Fluorophenol	72		66		21-120
4-Terphenyl-d14	111		100		41-149
Nitrobenzene-d5	81		67		23-120
Phenol-d6	68		62		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1138082-4 WG1138082-5 QC Sample: L1825323-08 Client ID: MW-2												
Acenaphthene	ND	18.2	12	66		11	61		40-140	9		40
2-Chloronaphthalene	ND	18.2	11	61		10	55		40-140	10		40
Fluoranthene	0.10	18.2	13	72		13	72		40-140	0		40
Hexachlorobutadiene	ND	18.2	11	61		9.2	51		40-140	18		40
Naphthalene	ND	18.2	10	55		9.0	50		40-140	11		40
Benzo(a)anthracene	0.05J	18.2	11	61		11	61		40-140	0		40
Benzo(a)pyrene	0.02J	18.2	12	66		12	66		40-140	0		40
Benzo(b)fluoranthene	0.03J	18.2	12	66		12	66		40-140	0		40
Benzo(k)fluoranthene	0.01J	18.2	11	61		11	61		40-140	0		40
Chrysene	0.02J	18.2	11	61		11	61		40-140	0		40
Acenaphthylene	ND	18.2	13	72		12	66		40-140	8		40
Anthracene	0.04J	18.2	13	72		12	66		40-140	8		40
Benzo(ghi)perylene	0.02J	18.2	14	77		13	72		40-140	7		40
Fluorene	ND	18.2	13	72		12	66		40-140	8		40
Phenanthrene	0.06J	18.2	11	61		11	61		40-140	0		40
Dibenzo(a,h)anthracene	ND	18.2	14	77		14	77		40-140	0		40
Indeno(1,2,3-cd)pyrene	0.02J	18.2	14	77		13	72		40-140	7		40
Pyrene	0.04J	18.2	14	77		14	77		40-140	0		40
2-Methylnaphthalene	0.03J	18.2	11	61		9.7	53		40-140	13		40
Pentachlorophenol	ND	18.2	16	88		15	83		40-140	6		40
Hexachlorobenzene	ND	18.2	12	66		12	66		40-140	0		40
Hexachloroethane	ND	18.2	10	55		8.7	48		40-140	14		40

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1138082-4 WG1138082-5 QC Sample: L1825323-08 Client ID: MW-2												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	73		69		10-120
2-Fluorobiphenyl	64		57		15-120
2-Fluorophenol	54		49		21-120
4-Terphenyl-d14	77		73		41-149
Nitrobenzene-d5	65		57		23-120
Phenol-d6	47		44		10-120

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 07-11 QC Batch ID: WG1138774-4 WG1138774-5 QC Sample: L1825323-08 Client ID: MW-2												
1,4-Dioxane	ND	4810	5820	121		5700	121		40-140	2		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,4-Dioxane-d8	20		19		15-110

PCBS

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-01
Client ID: MW-1
Sample Location: BUFFALO, NY

Date Collected: 07/02/18 12:43
Date Received: 07/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/19/18 05:00
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/11/18 19:13
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	118		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	115		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-02
Client ID: MW-2
Sample Location: BUFFALO, NY

Date Collected: 07/02/18 10:39
Date Received: 07/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/19/18 04:22
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/11/18 19:13
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	113		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	117		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-03
Client ID: BLIND DUP
Sample Location: BUFFALO, NY

Date Collected: 07/02/18 12:00
Date Received: 07/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/19/18 07:36
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/11/18 19:13
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	115		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-04
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 07/02/18 09:50
Date Received: 07/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/19/18 07:49
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/11/18 19:13
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-05
Client ID: MW-4
Sample Location: BUFFALO, NY

Date Collected: 07/02/18 13:15
Date Received: 07/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/19/18 08:01
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/11/18 19:13
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	118		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/11/18 18:07
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/11/18 05:31
Cleanup Method: EPA 3665A
Cleanup Date: 07/11/18
Cleanup Method: EPA 3660B
Cleanup Date: 07/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1134436-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	65		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1134436-2 WG1134436-3									
Aroclor 1016	74		81		40-140	9		50	A
Aroclor 1260	54		58		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		87		30-150	A
Decachlorobiphenyl	60		63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		86		30-150	B
Decachlorobiphenyl	68		70		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1134436-4 WG1134436-5 QC Sample: L1825323-02 Client ID: MW-2													
Aroclor 1016	ND	2.6	2.50	96		2.52	97		40-140	1		50	A
Aroclor 1260	ND	2.6	2.16	83		2.20	84		40-140	2		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	115		114		30-150	A
Decachlorobiphenyl	73		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	105		108		30-150	B
Decachlorobiphenyl	70		74		30-150	B

PESTICIDES

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07
Client ID: MW-1
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:46
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/22/18 16:00
Analyst: CD

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	0.048	PI	ug/l	0.014	0.004	1	B
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07 Date Collected: 07/18/18 10:46

Client ID: MW-1 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-07
Client ID: MW-1
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:46
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 07/22/18 16:01
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 07/20/18 21:34

Methylation Date: 07/21/18 11:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	63		30-150	A
DCAA	61		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08
Client ID: MW-2
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 07:48
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/22/18 15:22
Analyst: CD

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	0.070	PI	ug/l	0.014	0.004	1	B
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08 Date Collected: 07/18/18 07:48

Client ID: MW-2 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-08
Client ID: MW-2
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 07:48
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 07/22/18 14:46
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 07/20/18 21:34

Methylation Date: 07/21/18 11:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	62		30-150	A
DCAA	63		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09
Client ID: BLIND DUP
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 12:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/22/18 16:12
Analyst: CD

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	0.065	PI	ug/l	0.014	0.004	1	B
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09 Date Collected: 07/18/18 12:00

Client ID: BLIND DUP Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-09
Client ID: BLIND DUP
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 12:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 07/22/18 16:20
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 07/20/18 21:34

Methylation Date: 07/21/18 11:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	130		30-150	A
DCAA	104		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/22/18 16:25
Analyst: CD

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	0.027	PI	ug/l	0.014	0.004	1	B
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10 Date Collected: 07/18/18 10:00

Client ID: MW-3 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-10
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 10:00
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 07/22/18 16:39
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 07/20/18 21:34

Methylation Date: 07/21/18 11:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	112		30-150	A
DCAA	93		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11
Client ID: MW-4
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 11:16
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/22/18 16:37
Analyst: CD

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	0.040	PI	ug/l	0.014	0.004	1	B
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1585 HERTEL GWM **Lab Number:** L1825323

Project Number: B0437-017-001-005 **Report Date:** 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11 Date Collected: 07/18/18 11:16

Client ID: MW-4 Date Received: 07/19/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-11
Client ID: MW-4
Sample Location: BUFFALO, NY

Date Collected: 07/18/18 11:16
Date Received: 07/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 07/22/18 16:57
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 07/20/18 21:34

Methylation Date: 07/21/18 11:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	56		30-150	A
DCAA	58		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 07/22/18 13:50
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 07/20/18 16:15

Methylation Date: 07/21/18 11:47

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 07-11 Batch: WG1137898-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	81		30-150	B

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/22/18 14:44
Analyst: CD

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07-11 Batch: WG1138087-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/22/18 14:44
Analyst: CD

Extraction Method: EPA 3510C
Extraction Date: 07/21/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07-11 Batch: WG1138087-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	36		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 07-11 Batch: WG1137898-2 WG1137898-3									
2,4-D	134		122		30-150	9		25	A
2,4,5-T	113		102		30-150	10		25	A
2,4,5-TP (Silvex)	132		120		30-150	10		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	116		103		30-150	A
DCAA	100		92		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-11 Batch: WG1138087-2 WG1138087-3									
Delta-BHC	90		94		30-150	3		20	A
Lindane	81		85		30-150	5		20	A
Alpha-BHC	82		88		30-150	7		20	A
Beta-BHC	77		81		30-150	6		20	A
Heptachlor	71		76		30-150	7		20	A
Aldrin	82		88		30-150	7		20	A
Heptachlor epoxide	85		92		30-150	8		20	A
Endrin	89		96		30-150	8		20	A
Endrin aldehyde	75		80		30-150	6		20	A
Endrin ketone	90		100		30-150	10		20	A
Dieldrin	98		109		30-150	10		20	A
4,4'-DDE	86		97		30-150	11		20	A
4,4'-DDD	90		97		30-150	8		20	A
4,4'-DDT	82		89		30-150	8		20	A
Endosulfan I	84		94		30-150	11		20	A
Endosulfan II	81		90		30-150	10		20	A
Endosulfan sulfate	82		90		30-150	9		20	A
Methoxychlor	92		99		30-150	8		20	A
cis-Chlordane	79		88		30-150	10		20	A
trans-Chlordane	80		89		30-150	10		20	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-11 Batch: WG1138087-2 WG1138087-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		80		30-150	A
Decachlorobiphenyl	55		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		67		30-150	B
Decachlorobiphenyl	52		62		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1137898-6 WG1137898-7 QC Sample: L1825323-08 Client ID: MW-2													
2,4-D	ND	5	3.93J	79		4.33J	87		30-150	10		25	A
2,4,5-T	ND	5	3.20	64		3.16	63		30-150	1		25	A
2,4,5-TP (Silvex)	ND	5	3.21	64		3.32	66		30-150	3		25	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	63		67		30-150	A
DCAA	64		66		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1138087-4 WG1138087-5 QC Sample: L1825323-08 Client ID: MW-2													
Delta-BHC	ND	0.357	0.323	90		0.292	82		30-150	10		30	A
Lindane	ND	0.357	0.245	69		0.207	58		30-150	17		30	A
Alpha-BHC	ND	0.357	0.281	79		0.228	64		30-150	21		30	A
Beta-BHC	0.070	0.357	0.292	62		0.268	55		30-150	9		30	B
Heptachlor	ND	0.357	0.303	85		0.270	76		30-150	12		30	A
Aldrin	ND	0.357	0.255	71		0.220	62		30-150	15		30	A
Heptachlor epoxide	ND	0.357	0.260	73		0.217	61		30-150	18		30	A
Endrin	ND	0.357	0.372	104		0.296	83		30-150	23		30	A
Endrin aldehyde	ND	0.357	0.295	83		0.255	71		30-150	15		30	A
Endrin ketone	ND	0.357	0.331	93		0.287	80		30-150	14		30	A
Dieldrin	ND	0.357	0.366	102		0.318	89		30-150	14		30	A
4,4'-DDE	ND	0.357	0.352	99		0.304	85		30-150	15		30	A
4,4'-DDD	ND	0.357	0.327	92		0.282	79		30-150	15		30	A
4,4'-DDT	ND	0.357	0.308	86		0.271	76		30-150	13		30	A
Endosulfan I	ND	0.357	0.339	95		0.281	79		30-150	19		30	A
Endosulfan II	ND	0.357	0.286	80		0.248	69		30-150	14		30	A
Endosulfan sulfate	ND	0.357	0.317	89		0.276	77		30-150	14		30	A
Methoxychlor	ND	0.357	0.394	110		0.361	101		30-150	9		30	A
cis-Chlordane	ND	0.357	0.257	72		0.212	59		30-150	19		30	A
trans-Chlordane	ND	0.357	0.259	72		0.224	63		30-150	14		30	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1138087-4 WG1138087-5 QC Sample: L1825323-08 Client ID: MW-2												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		68		30-150	A
Decachlorobiphenyl	69		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		49		30-150	B
Decachlorobiphenyl	63		53		30-150	B

METALS

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-01
Client ID: MW-1
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/02/18 12:43
Date Received: 07/03/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.112		mg/l	0.0100	0.00327	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Antimony, Total	0.00294	J	mg/l	0.00400	0.00042	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00181		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Barium, Total	0.03569		mg/l	0.00050	0.00017	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00013	J	mg/l	0.00020	0.00005	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Calcium, Total	208.		mg/l	0.200	0.0394	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Chromium, Total	0.00291		mg/l	0.00100	0.00017	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00373		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Copper, Total	0.00539		mg/l	0.00100	0.00038	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Iron, Total	0.352		mg/l	0.0500	0.0191	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Lead, Total	0.00040	J	mg/l	0.00100	0.00034	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Magnesium, Total	234.		mg/l	0.0700	0.0242	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Manganese, Total	0.4680		mg/l	0.00100	0.00044	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	07/12/18 12:04	07/13/18 14:06	EPA 7470A	1,7470A	MG
Nickel, Total	0.01075		mg/l	0.00200	0.00055	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Potassium, Total	13.6		mg/l	0.100	0.0309	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Selenium, Total	0.00335	J	mg/l	0.00500	0.00173	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Sodium, Total	203.		mg/l	0.100	0.0293	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Thallium, Total	0.00037	J	mg/l	0.00050	0.00014	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM
Zinc, Total	0.00345	J	mg/l	0.01000	0.00341	1	07/11/18 14:30	07/12/18 13:50	EPA 3005A	1,6020B	AM

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-02
Client ID: MW-2
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/02/18 10:39
Date Received: 07/03/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.175		mg/l	0.0100	0.00327	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Antimony, Total	0.00190	J	mg/l	0.00400	0.00042	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00128		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Barium, Total	0.03112		mg/l	0.00050	0.00017	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Calcium, Total	250.		mg/l	0.200	0.0394	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Chromium, Total	0.00191		mg/l	0.00100	0.00017	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00070		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Copper, Total	0.00414		mg/l	0.00100	0.00038	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Iron, Total	0.528		mg/l	0.0500	0.0191	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Magnesium, Total	84.8		mg/l	0.0700	0.0242	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Manganese, Total	0.3197		mg/l	0.00100	0.00044	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	07/12/18 12:04	07/13/18 14:00	EPA 7470A	1,7470A	MG
Nickel, Total	0.00204		mg/l	0.00200	0.00055	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Potassium, Total	31.4		mg/l	0.100	0.0309	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Sodium, Total	141.		mg/l	0.100	0.0293	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Thallium, Total	0.00017	J	mg/l	0.00050	0.00014	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/11/18 14:30	07/12/18 13:02	EPA 3005A	1,6020B	AM

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-03
Client ID: BLIND DUP
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/02/18 12:00
Date Received: 07/03/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.201		mg/l	0.0100	0.00327	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Antimony, Total	0.00128	J	mg/l	0.00400	0.00042	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00145		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Barium, Total	0.03098		mg/l	0.00050	0.00017	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Calcium, Total	252.		mg/l	0.200	0.0394	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Chromium, Total	0.00194		mg/l	0.00100	0.00017	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00075		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Copper, Total	0.00422		mg/l	0.00100	0.00038	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Iron, Total	0.571		mg/l	0.0500	0.0191	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Magnesium, Total	84.0		mg/l	0.0700	0.0242	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Manganese, Total	0.3275		mg/l	0.00100	0.00044	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	07/12/18 12:04	07/13/18 14:07	EPA 7470A	1,7470A	MG
Nickel, Total	0.00205		mg/l	0.00200	0.00055	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Potassium, Total	30.9		mg/l	0.100	0.0309	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Sodium, Total	140.		mg/l	0.100	0.0293	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Thallium, Total	0.00016	J	mg/l	0.00050	0.00014	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/11/18 14:30	07/12/18 13:54	EPA 3005A	1,6020B	AM

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-04
Client ID: MW-3
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/02/18 09:50
Date Received: 07/03/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.309		mg/l	0.0100	0.00327	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Antimony, Total	0.00108	J	mg/l	0.00400	0.00042	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00208		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Barium, Total	0.04176		mg/l	0.00050	0.00017	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Calcium, Total	136.		mg/l	0.200	0.0394	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Chromium, Total	0.00138		mg/l	0.00100	0.00017	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00117		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Copper, Total	0.00346		mg/l	0.00100	0.00038	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Iron, Total	0.773		mg/l	0.0500	0.0191	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Lead, Total	0.00074	J	mg/l	0.00100	0.00034	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Magnesium, Total	128.		mg/l	0.0700	0.0242	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Manganese, Total	0.3294		mg/l	0.00100	0.00044	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	07/12/18 12:04	07/13/18 14:12	EPA 7470A	1,7470A	MG
Nickel, Total	0.00303		mg/l	0.00200	0.00055	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Potassium, Total	10.4		mg/l	0.100	0.0309	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Selenium, Total	0.00289	J	mg/l	0.00500	0.00173	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Sodium, Total	128.		mg/l	0.100	0.0293	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Thallium, Total	0.00028	J	mg/l	0.00050	0.00014	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM
Zinc, Total	0.00498	J	mg/l	0.01000	0.00341	1	07/11/18 14:30	07/12/18 15:31	EPA 3005A	1,6020B	AM

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

SAMPLE RESULTS

Lab ID: L1825323-05
Client ID: MW-4
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/02/18 13:15
Date Received: 07/03/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0436		mg/l	0.0100	0.00327	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Antimony, Total	0.00114	J	mg/l	0.00400	0.00042	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00152		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Barium, Total	0.02095		mg/l	0.00050	0.00017	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Calcium, Total	140.		mg/l	0.200	0.0394	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Chromium, Total	0.00107		mg/l	0.00100	0.00017	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00243		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Copper, Total	0.00243		mg/l	0.00100	0.00038	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Iron, Total	0.236		mg/l	0.0500	0.0191	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Magnesium, Total	190.		mg/l	0.0700	0.0242	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Manganese, Total	0.3003		mg/l	0.00100	0.00044	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	07/12/18 12:04	07/13/18 14:14	EPA 7470A	1,7470A	MG
Nickel, Total	0.00402		mg/l	0.00200	0.00055	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Potassium, Total	6.02		mg/l	0.100	0.0309	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Sodium, Total	138.		mg/l	0.100	0.0293	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM
Zinc, Total	0.00714	J	mg/l	0.01000	0.00341	1	07/11/18 14:30	07/12/18 15:35	EPA 3005A	1,6020B	AM

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
Lab Number: L1825323
Report Date: 07/27/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1134646-1										
Aluminum, Total	0.00528	J	mg/l	0.0100	0.00327	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Calcium, Total	0.194	J	mg/l	0.200	0.0394	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Sodium, Total	0.0301	J	mg/l	0.100	0.0293	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/11/18 14:30	07/12/18 12:06	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1134962-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	07/12/18 12:04	07/13/18 13:57	1,7470A	MG

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005
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Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1134646-2								
Aluminum, Total	106		-		80-120	-		
Antimony, Total	83		-		80-120	-		
Arsenic, Total	101		-		80-120	-		
Barium, Total	101		-		80-120	-		
Beryllium, Total	114		-		80-120	-		
Cadmium, Total	106		-		80-120	-		
Calcium, Total	98		-		80-120	-		
Chromium, Total	97		-		80-120	-		
Cobalt, Total	98		-		80-120	-		
Copper, Total	100		-		80-120	-		
Iron, Total	108		-		80-120	-		
Lead, Total	101		-		80-120	-		
Magnesium, Total	103		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	100		-		80-120	-		
Potassium, Total	98		-		80-120	-		
Selenium, Total	101		-		80-120	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	106		-		80-120	-		
Thallium, Total	97		-		80-120	-		
Vanadium, Total	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL GWM

Project Number: B0437-017-001-005

Lab Number: L1825323

Report Date: 07/27/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1134646-2					
Zinc, Total	106	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1134962-2					
Mercury, Total	94	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1134646-3 WG1134646-4 QC Sample: L1825323-02 Client ID: MW-2												
Aluminum, Total	0.175	2	2.24	103		2.27	105		75-125	1		20
Antimony, Total	0.00190J	0.5	0.5586	112		0.5665	113		75-125	1		20
Arsenic, Total	0.00128	0.12	0.1310	108		0.1305	108		75-125	0		20
Barium, Total	0.03112	2	2.193	108		2.207	109		75-125	1		20
Beryllium, Total	ND	0.05	0.04650	93		0.04666	93		75-125	0		20
Cadmium, Total	ND	0.051	0.05547	109		0.05488	108		75-125	1		20
Calcium, Total	250.	10	288	**380**	Q	284	**340**	Q	75-125	1		20
Chromium, Total	0.00191	0.2	0.2090	104		0.2080	103		75-125	0		20
Cobalt, Total	0.00070	0.5	0.5014	100		0.5113	102		75-125	2		20
Copper, Total	0.00414	0.25	0.2662	105		0.2645	104		75-125	1		20
Iron, Total	0.528	1	1.61	108		1.64	111		75-125	2		20
Lead, Total	ND	0.51	0.5630	110		0.5640	110		75-125	0		20
Magnesium, Total	84.8	10	121	**362**	Q	119	**342**	Q	75-125	2		20
Manganese, Total	0.3197	0.5	0.8515	106		0.8605	108		75-125	1		20
Nickel, Total	0.00204	0.5	0.5133	102		0.5074	101		75-125	1		20
Potassium, Total	31.4	10	42.5	111		42.3	109		75-125	0		20
Selenium, Total	ND	0.12	0.126	105		0.122	102		75-125	3		20
Silver, Total	ND	0.05	0.05344	107		0.05464	109		75-125	2		20
Sodium, Total	141.	10	184	**430**	Q	178	**370**	Q	75-125	3		20
Thallium, Total	0.00017J	0.12	0.1259	105		0.1291	108		75-125	3		20
Vanadium, Total	ND	0.5	0.5156	103		0.5173	103		75-125	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

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): 01-05 QC Batch ID: WG1134646-3 WG1134646-4 QC Sample: L1825323-02 Client ID: MW-2									
Zinc, Total	ND	0.5	0.5336	107	0.5315	106	75-125	0	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

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): 01-05 QC Batch ID: WG1134646-7 WG1134646-8 QC Sample: L1825885-01 Client ID: MS Sample											
Aluminum, Total	0.0269	2	2.06	102		2.06	102		75-125	0	20
Antimony, Total	0.00089J	0.5	0.5515	110		0.5539	111		75-125	0	20
Arsenic, Total	0.00201	0.12	0.1233	101		0.1250	102		75-125	1	20
Barium, Total	0.03708	2	2.049	100		2.095	103		75-125	2	20
Beryllium, Total	ND	0.05	0.05492	110		0.05402	108		75-125	2	20
Cadmium, Total	ND	0.051	0.05362	105		0.05536	108		75-125	3	20
Calcium, Total	134.	10	139	**50**	Q	137	**30**	Q	75-125	1	20
Chromium, Total	0.00080J	0.2	0.1971	98		0.1982	99		75-125	1	20
Cobalt, Total	0.00072	0.5	0.4881	97		0.4945	99		75-125	1	20
Copper, Total	0.00093J	0.25	0.2503	100		0.2515	101		75-125	0	20
Iron, Total	2.07	1	3.15	108		3.05	98		75-125	3	20
Lead, Total	0.00079J	0.51	0.5310	104		0.5317	104		75-125	0	20
Magnesium, Total	52.6	10	72.0	**194**	Q	71.8	**192**	Q	75-125	0	20
Manganese, Total	0.1213	0.5	0.6216	100		0.6152	99		75-125	1	20
Nickel, Total	0.00383	0.5	0.4969	99		0.4964	98		75-125	0	20
Potassium, Total	3.56	10	13.3	97		13.2	96		75-125	1	20
Selenium, Total	ND	0.12	0.127	106		0.116	97		75-125	9	20
Silver, Total	ND	0.05	0.05328	106		0.05303	106		75-125	0	20
Sodium, Total	26.1	10	39.7	**136**	Q	39.2	**131**	Q	75-125	1	20
Thallium, Total	0.00023J	0.12	0.1198	100		0.1197	100		75-125	0	20
Vanadium, Total	ND	0.5	0.5102	102		0.5110	102		75-125	0	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

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): 01-05 QC Batch ID: WG1134646-7 WG1134646-8 QC Sample: L1825885-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5222	104	0.5249	105	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1134962-3 WG1134962-4 QC Sample: L1825323-02 Client ID: MW-2									
Mercury, Total	ND	0.005	0.00435	87	0.00439	88	75-125	1	20

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent
E	Absent
F	Absent
G	Absent
H	Absent
I	Absent
J	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825323-01A	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-01B	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-01C	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-01D	Amber 1000ml unpreserved	F	7	7	4.8	Y	Absent		HOLD-8270(7)
L1825323-01E	Amber 1000ml unpreserved	F	7	7	4.8	Y	Absent		HOLD-8270(7)
L1825323-01F	Amber 1000ml unpreserved	F	7	7	4.8	Y	Absent		NYTCL-8082-1200ML(7)
L1825323-01G	Amber 1000ml unpreserved	F	7	7	4.8	Y	Absent		HOLD-8151(7)
L1825323-01G1	Amber 1000ml unpreserved	F	7	7	4.8	Y	Absent		HOLD-8151(7)
L1825323-01H	Amber 120ml unpreserved	D	7	7	5.7	Y	Absent		HOLD-8081(7)
L1825323-01I	Amber 120ml unpreserved	F	7	7	4.8	Y	Absent		HOLD-8081(7)
L1825323-01J	Amber 500ml unpreserved	D	7	7	5.7	Y	Absent		HOLD-1,4DIOX(7)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825323-01K	Plastic 250ml HNO3 preserved	F	<2	<2	4.8	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1825323-01L	Amber 500ml unpreserved	F	7	7	4.8	Y	Absent		-
L1825323-02A	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-02A1	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-02A2	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-02B	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-02B1	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-02B2	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-02C	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-02C1	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-02C2	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-02D	Amber 1000ml unpreserved	F	7	7	4.8	Y	Absent		HOLD-8270(7),NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-02D1	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8270(7),NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-02D2	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8270(7),NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-02E	Amber 1000ml unpreserved	F	7	7	4.8	Y	Absent		HOLD-8270(7),NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-02E1	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8270(7),NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-02E2	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8270(7),NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-02F	Amber 1000ml unpreserved	F	7	7	4.8	Y	Absent		NYTCL-8082-1200ML(7)
L1825323-02F1	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		NYTCL-8082-1200ML(7)
L1825323-02F2	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		NYTCL-8082-1200ML(7)
L1825323-02G	Amber 1000ml unpreserved	F	7	7	4.8	Y	Absent		HOLD-8151(7)
L1825323-02G1	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8151(7)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825323-02G2	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		-
L1825323-02G3	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		-
L1825323-02H	Amber 120ml unpreserved	D	7	7	5.7	Y	Absent		HOLD-8081(7)
L1825323-02H1	Amber 120ml unpreserved	E	7	7	4.4	Y	Absent		-
L1825323-02H2	Amber 120ml unpreserved	E	7	7	4.4	Y	Absent		-
L1825323-02I	Amber 120ml unpreserved	D	7	7	5.7	Y	Absent		HOLD-8081(7)
L1825323-02I1	Amber 120ml unpreserved	E	7	7	4.4	Y	Absent		-
L1825323-02I2	Amber 120ml unpreserved	E	7	7	4.4	Y	Absent		-
L1825323-02J	Amber 500ml unpreserved	F	7	7	4.8	Y	Absent		HOLD-1,4DIOX(7)
L1825323-02J1	Amber 500ml unpreserved	D	7	7	5.7	Y	Absent		HOLD-1,4DIOX(7)
L1825323-02J2	Amber 500ml unpreserved	D	7	7	5.7	Y	Absent		HOLD-1,4DIOX(7)
L1825323-02K	Plastic 250ml HNO3 preserved	F	<2	<2	4.8	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1825323-02K1	Plastic 250ml HNO3 preserved	F	<2	<2	4.8	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1825323-02K2	Plastic 250ml HNO3 preserved	F	<2	<2	4.8	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1825323-03A	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-03B	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825323-03C	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-03D	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8270(7),NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-03E	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8270(7),NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-03F	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		NYTCL-8082-1200ML(7)
L1825323-03G	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8151(7)
L1825323-03G1	Amber 1000ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8151(7)
L1825323-03H	Amber 120ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8081(7)
L1825323-03I	Amber 120ml unpreserved	E	7	7	4.4	Y	Absent		HOLD-8081(7)
L1825323-03J	Amber 500ml unpreserved	D	7	7	5.7	Y	Absent		HOLD-1,4DIOX(7)
L1825323-03K	Plastic 250ml HNO3 preserved	F	<2	<2	4.8	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1825323-04A	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-04B	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-04C	Amber 120ml unpreserved	B	7	7	3.9	Y	Absent		-
L1825323-04D	Amber 120ml unpreserved	B	7	7	3.9	Y	Absent		HOLD-8270(7)
L1825323-04E	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		HOLD-8270(7)
L1825323-04F	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		-
L1825323-04G	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		HOLD-8151(7),NYTCL-8082-1200ML(7)
L1825323-04G1	Amber 1000ml unpreserved	NA	NA		3.9	Y	Absent		HOLD-8151(7)
L1825323-04H	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		HOLD-8081(7),NYTCL-8082-1200ML(7)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825323-04I	Plastic 250ml HNO3 preserved	B	<2	<2	3.9	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),HOLD-8081(7),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1825323-04J	Amber 500ml unpreserved	NA	NA			Y	Absent		HOLD-1,4DIOX(7)
L1825323-05A	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-05B	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1825323-05C	Amber 120ml unpreserved	B	7	7	3.9	Y	Absent		-
L1825323-05D	Amber 120ml unpreserved	B	7	7	3.9	Y	Absent		HOLD-8270(7)
L1825323-05E	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		HOLD-8270(7)
L1825323-05F	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		-
L1825323-05G	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		HOLD-8151(7),NYTCL-8082-1200ML(7)
L1825323-05G1	Amber 1000ml unpreserved	NA	NA			Y	Absent		HOLD-8151(7)
L1825323-05H	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		HOLD-8081(7),NYTCL-8082-1200ML(7)
L1825323-05I	Plastic 250ml HNO3 preserved	B	<2	<2	3.9	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),HOLD-8081(7),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1825323-05J	Amber 500ml unpreserved	NA	NA			Y	Absent		HOLD-1,4DIOX(7)
L1825323-06A	Plastic 250ml Trizma preserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L1825323-07A	Vial HCl preserved	G	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1825323-07B	Vial HCl preserved	G	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1825323-07C	Vial HCl preserved	G	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1825323-07D	Amber 120ml unpreserved	G	7	7	2.6	Y	Absent		NYTCL-8081(7)
L1825323-07E	Amber 120ml unpreserved	G	7	7	2.6	Y	Absent		NYTCL-8081(7)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825323-07F	Amber 250ml unpreserved	G	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-07G	Amber 250ml unpreserved	G	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-07H	Amber 500ml unpreserved	G	7	7	2.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-07J	Amber 500ml unpreserved	G	7	7	2.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-07K	Amber 1000ml unpreserved	G	7	7	2.6	Y	Absent		HERB-APA(7)
L1825323-07L	Amber 1000ml unpreserved	G	7	7	2.6	Y	Absent		HERB-APA(7)
L1825323-08A	Vial HCl preserved	G	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1825323-08A1	Vial HCl preserved	H	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1825323-08A2	Vial HCl preserved	H	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1825323-08B	Vial HCl preserved	H	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1825323-08B1	Vial HCl preserved	H	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1825323-08B2	Vial HCl preserved	H	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1825323-08C	Vial HCl preserved	H	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1825323-08C1	Vial HCl preserved	H	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1825323-08C2	Vial HCl preserved	H	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1825323-08D	Amber 120ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8081(7)
L1825323-08D1	Amber 120ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8081(7)
L1825323-08D2	Amber 120ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8081(7)
L1825323-08E	Amber 120ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8081(7)
L1825323-08E1	Amber 120ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8081(7)
L1825323-08E2	Amber 120ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8081(7)
L1825323-08F	Amber 250ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-08F1	Amber 250ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-08F2	Amber 250ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-08G	Amber 250ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-08G1	Amber 250ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-08G2	Amber 250ml unpreserved	H	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-08H	Amber 500ml unpreserved	H	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825323-08H1	Amber 500ml unpreserved	H	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-08H2	Amber 500ml unpreserved	H	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-08J	Amber 500ml unpreserved	H	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-08J1	Amber 500ml unpreserved	H	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-08J2	Amber 500ml unpreserved	H	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-08K	Amber 1000ml unpreserved	H	7	7	3.4	Y	Absent		HERB-APA(7)
L1825323-08K1	Amber 1000ml unpreserved	H	7	7	3.4	Y	Absent		HERB-APA(7)
L1825323-08K2	Amber 1000ml unpreserved	H	7	7	3.4	Y	Absent		HERB-APA(7)
L1825323-08L	Amber 1000ml unpreserved	H	7	7	3.4	Y	Absent		HERB-APA(7)
L1825323-08L1	Amber 1000ml unpreserved	H	7	7	3.4	Y	Absent		HERB-APA(7)
L1825323-08L2	Amber 1000ml unpreserved	H	7	7	3.4	Y	Absent		HERB-APA(7)
L1825323-09A	Vial HCl preserved	I	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L1825323-09B	Vial HCl preserved	I	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L1825323-09C	Vial HCl preserved	I	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L1825323-09D	Amber 120ml unpreserved	I	7	7	4.1	Y	Absent		NYTCL-8081(7)
L1825323-09E	Amber 120ml unpreserved	I	7	7	4.1	Y	Absent		NYTCL-8081(7)
L1825323-09F	Amber 250ml unpreserved	I	7	7	4.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-09G	Amber 250ml unpreserved	I	7	7	4.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-09H	Amber 500ml unpreserved	I	7	7	4.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-09J	Amber 500ml unpreserved	I	7	7	4.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-09K	Amber 1000ml unpreserved	I	7	7	4.1	Y	Absent		HERB-APA(7)
L1825323-09L	Amber 1000ml unpreserved	I	7	7	4.1	Y	Absent		HERB-APA(7)
L1825323-10A	Vial HCl preserved	J	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L1825323-10B	Vial HCl preserved	J	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L1825323-10C	Vial HCl preserved	J	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L1825323-10D	Amber 120ml unpreserved	J	7	7	2.2	Y	Absent		NYTCL-8081(7)
L1825323-10E	Amber 120ml unpreserved	J	7	7	2.2	Y	Absent		NYTCL-8081(7)
L1825323-10F	Amber 250ml unpreserved	J	7	7	2.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825323-10G	Amber 250ml unpreserved	J	7	7	2.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-10H	Amber 500ml unpreserved	J	7	7	2.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-10J	Amber 500ml unpreserved	J	7	7	2.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-10K	Amber 1000ml unpreserved	J	7	7	2.2	Y	Absent		HERB-APA(7)
L1825323-10L	Amber 1000ml unpreserved	J	7	7	2.2	Y	Absent		HERB-APA(7)
L1825323-11A	Vial HCl preserved	G	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1825323-11B	Vial HCl preserved	G	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1825323-11C	Vial HCl preserved	G	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1825323-11D	Amber 120ml unpreserved	G	7	7	2.6	Y	Absent		NYTCL-8081(7)
L1825323-11E	Amber 120ml unpreserved	G	7	7	2.6	Y	Absent		NYTCL-8081(7)
L1825323-11F	Amber 250ml unpreserved	G	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-11G	Amber 250ml unpreserved	G	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1825323-11H	Amber 500ml unpreserved	G	7	7	2.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-11J	Amber 500ml unpreserved	G	7	7	2.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1825323-11K	Amber 1000ml unpreserved	G	7	7	2.6	Y	Absent		HERB-APA(7)
L1825323-11L	Amber 1000ml unpreserved	G	7	7	2.6	Y	Absent		HERB-APA(7)
L1825323-12A	Vial HCl preserved	G	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1825323-12B	Vial HCl preserved	G	NA		2.6	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL GWM	**Lab Number:**	L1825323
Project Number:	B0437-017-001-005	**Report Date:**	07/27/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL GWM	**Lab Number:**	L1825323
Project Number:	B0437-017-001-005	**Report Date:**	07/27/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL GWM	**Lab Number:**	L1825323
Project Number:	B0437-017-001-005	**Report Date:**	07/27/18

REFERENCES

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

122 Determination of Selected Perfluorintated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

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.

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: 7/3/18

ALPHA Job #: L1825323

Client Information
Client: Benchmark Env
Address: 2558 Hamburg Turnpike Lackawanna NY 14218
Phone: (716) 828-8356
Fax: (716) 856-0583
Email: TBehrendt@Tunkhannock.com

Project Information
Project Name: 1585 Hertel, GWM
Project Location: Buffalo, NY
Project # B0437-017-00-005-002
(Use Project name as Project #) X
Project Manager: Chris Boron
ALPHAQuote #:

Turn-Around Time
Standard X 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:

CAT B

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL 8270	TAL METALS	NYTCL 8082 Aroclor	NYTCL 8081	EPA 537	1,4 Dioxane EPA 8270 SIM			Sample Specific Comments	Total Bottle
25323-01	MW-1	7/2/18	1243	Water	TAB	2	1	3	2	3	2			limited vol 8151+8082	13
02	MW-2 (MS/MSD)		1039			6	3	7	6	9	3			limited 1,4 Diox vol 8151, 8081	34
03	Blind Dup		1200			2	1	3	2	3	1			"	12
04	MW-3		950			2	1	4	2						9
05	MW-4		1315			2	1	4	2						9
06	Field Blank	7/2/18	930	Water	TAB					1					1

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Container Type	A	P	A	A	P	A		
Preservative	A	C	A	A	O	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
	7/2/18 1635	Jack Skinner	7/3/18 11:07
Jack Skinner	7/3/18 1258		7/3/18 2:16

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

Page 1 of 1

Date Rec'd in Lab: 07/20/18

ALPHA Job #: L1825323

Client Information
Client: Benchmark Env
Address: 2558 Hamburg Turnpike Suite 300 Lackawanna NY 14218
Phone: (716) 856-0599
Fax: (716) 856-0583
Email: TBennett@Tworkhm

Project Information
Project Name: 1585 Heated Alk GWM
Project Location: Buffalo NY
Project # B0437-017-001-005
(Use Project name as Project #) ☒
Project Manager:
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:
Please add to Alpha Job # L1825323 CAT B

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	TCL-CP-51 VOC 8260	1,4 Dioxane - SIM	NYTCL-8081	Hold - APA	NYTCL-8270 - LVI				Sample Specific Comments	Total # Bottles
25323-07	MW-1	7/19/18	1046	Water	TAB	3	2	2	2	2					11
08	MW-2 (MS/MSD)		748			9	6	6	6	6				Tic on 8260+VOC	33
09	Blind Dup		1200			3	2	2	2	2				Tics on 8260+VOC	11
10	MW-3		1000			3	2	2	2	2					11
11	MW-4		1116			3	2	2	2	2					11
12	Trip Blank					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	A	A	A	A				
Preservative	B	A	A	A	A				

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	7/19/18 1350	[signature]	7/19/18 15:30
[signature]	7/19/18 16:00	[signature]	7/20/18

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:	L1829475
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-606
Report Date:	08/07/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001-606

Lab Number: L1829475
Report Date: 08/07/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1829475-01	TANK WATER	WATER	BUFFALO, NY	07/31/18 10:45	07/31/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606

Lab Number: L1829475
Report Date: 08/07/18

Case Narrative

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

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

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

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

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

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

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1829475
Project Number:	0437-017-001-606	**Report Date:**	08/07/18

Case Narrative (continued)

Report Submission

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

The analysis of Total Organic Halogen was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Total Metals

The WG1142264-2 LCS recovery, associated with L1829475-01, is above the acceptance criteria for mercury (121%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

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

Authorized Signature: Melissa Cripps Melissa Cripps

Title: Technical Director/Representative Date: 08/07/18

ORGANICS

PCBS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606
Lab Number: L1829475
Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829475-01
Client ID: TANK WATER
Sample Location: BUFFALO, NY

Date Collected: 07/31/18 10:45
Date Received: 07/31/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/03/18 10:05
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 08/02/18 23:50
Cleanup Method: EPA 3665A
Cleanup Date: 08/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	39		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606

Lab Number: L1829475
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/03/18 08:58
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 08/02/18 23:50
Cleanup Method: EPA 3665A
Cleanup Date: 08/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1142470-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	88		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-606

Lab Number: L1829475

Report Date: 08/07/18

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: WG1142470-2 WG1142470-3									
Aroclor 1016	76		70		40-140	8		50	A
Aroclor 1260	78		76		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		77		30-150	A
Decachlorobiphenyl	77		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		79		30-150	B
Decachlorobiphenyl	87		81		30-150	B

METALS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606
Lab Number: L1829475
Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829475-01
Client ID: TANK WATER
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/31/18 10:45
Date Received: 07/31/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0945		mg/l	0.0100	0.00327	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Antimony, Total	0.00159	J	mg/l	0.00400	0.00042	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Arsenic, Total	0.00171		mg/l	0.00050	0.00016	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Barium, Total	0.1534		mg/l	0.00050	0.00017	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Cadmium, Total	0.00121		mg/l	0.00020	0.00005	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Calcium, Total	68.4		mg/l	0.100	0.0394	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Chromium, Total	0.00498		mg/l	0.00100	0.00017	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Cobalt, Total	0.00204		mg/l	0.00050	0.00016	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Copper, Total	0.00763		mg/l	0.00100	0.00038	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Iron, Total	194.		mg/l	0.0500	0.0191	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Lead, Total	0.7734		mg/l	0.02000	0.00686	20	08/02/18 15:10	08/02/18 20:22	EPA 3005A	1,6020B	MG
Magnesium, Total	60.2		mg/l	0.0700	0.0242	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Manganese, Total	0.7959		mg/l	0.00100	0.00044	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/02/18 12:02	08/02/18 21:34	EPA 7470A	1,7470A	EA
Nickel, Total	0.00575		mg/l	0.00200	0.00055	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Potassium, Total	2.69		mg/l	0.100	0.0309	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Sodium, Total	94.2		mg/l	0.100	0.0293	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Thallium, Total	ND		mg/l	0.00050	0.00014	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG
Zinc, Total	0.4934		mg/l	0.01000	0.00341	1	08/02/18 15:10	08/02/18 20:18	EPA 3005A	1,6020B	MG

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606
Lab Number: L1829475
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1142264-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/02/18 12:02	08/02/18 21:06	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1142327-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Barium, Total	ND		mg/l	0.00050	0.00017	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Calcium, Total	ND		mg/l	0.100	0.0394	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Chromium, Total	ND		mg/l	0.00100	0.00017	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Copper, Total	ND		mg/l	0.00100	0.00038	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Iron, Total	ND		mg/l	0.0500	0.0191	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Lead, Total	ND		mg/l	0.00100	0.00034	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Manganese, Total	ND		mg/l	0.00100	0.00044	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Nickel, Total	ND		mg/l	0.00200	0.00055	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Potassium, Total	ND		mg/l	0.100	0.0309	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Sodium, Total	ND		mg/l	0.100	0.0293	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Thallium, Total	ND		mg/l	0.00050	0.00014	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/02/18 15:10	08/02/18 19:29	1,6020B	MG

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606
Lab Number: L1829475
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-606

Lab Number: L1829475

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1142264-2								
Mercury, Total	**121**	Q	-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-606

Lab Number: L1829475

Report Date: 08/07/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1142327-2					
Aluminum, Total	110	-	80-120	-	
Antimony, Total	86	-	80-120	-	
Arsenic, Total	106	-	80-120	-	
Barium, Total	107	-	80-120	-	
Beryllium, Total	104	-	80-120	-	
Cadmium, Total	108	-	80-120	-	
Calcium, Total	119	-	80-120	-	
Chromium, Total	103	-	80-120	-	
Cobalt, Total	100	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	110	-	80-120	-	
Lead, Total	104	-	80-120	-	
Magnesium, Total	115	-	80-120	-	
Manganese, Total	107	-	80-120	-	
Nickel, Total	101	-	80-120	-	
Potassium, Total	119	-	80-120	-	
Selenium, Total	115	-	80-120	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	120	-	80-120	-	
Thallium, Total	101	-	80-120	-	
Vanadium, Total	104	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-606

Lab Number: L1829475

Report Date: 08/07/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1142327-2					
Zinc, Total	110	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606

Lab Number: L1829475
Report Date: 08/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1142264-3 WG1142264-4 QC Sample: L1829077-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00515	103		0.00510	102		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606

Lab Number: L1829475
Report Date: 08/07/18

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 QC Batch ID: WG1142327-3 QC Sample: L1800008-27 Client ID: MS Sample									
Aluminum, Total	0.0241	2	2.15	106	-	-	75-125	-	20
Antimony, Total	0.00068J	0.5	0.4699	94	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.1211	101	-	-	75-125	-	20
Barium, Total	0.00102	2	2.113	106	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05371	107	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05371	105	-	-	75-125	-	20
Calcium, Total	0.596	10	10.8	102	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.1943	97	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.4830	97	-	-	75-125	-	20
Copper, Total	ND	0.25	0.2384	95	-	-	75-125	-	20
Iron, Total	ND	1	1.09	109	-	-	75-125	-	20
Lead, Total	ND	0.51	0.5164	101	-	-	75-125	-	20
Magnesium, Total	ND	10	11.6	116	-	-	75-125	-	20
Manganese, Total	ND	0.5	0.5187	104	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.4928	98	-	-	75-125	-	20
Potassium, Total	ND	10	11.4	114	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.140	117	-	-	75-125	-	20
Silver, Total	ND	0.05	0.04982	100	-	-	75-125	-	20
Sodium, Total	0.0483J	10	11.3	113	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1196	100	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.5048	101	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606

Lab Number: L1829475
Report Date: 08/07/18

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 QC Batch ID: WG1142327-3 QC Sample: L1800008-27 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5410	108	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606

Lab Number: L1829475
Report Date: 08/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1142327-4 QC Sample: L1800008-27 Client ID: DUP Sample						
Aluminum, Total	0.0241	0.0148	mg/l	**48**	Q	20
Antimony, Total	0.00068J	0.00216J	mg/l	NC		20
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	0.00102	0.00095	mg/l	7		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	0.596	0.101	mg/l	**142**	Q	20
Chromium, Total	ND	ND	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	ND	0.0405J	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	ND	ND	mg/l	NC		20
Manganese, Total	ND	ND	mg/l	NC		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	0.0483J	0.0920J	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-606

Lab Number: L1829475

Report Date: 08/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1142327-4 QC Sample: L1800008-27 Client ID: DUP Sample					
Thallium, Total	ND	0.00015J	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606

Lab Number: L1829475
Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829475-01
Client ID: TANK WATER
Sample Location: BUFFALO, NY

Date Collected: 07/31/18 10:45
Date Received: 07/31/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Flash Point	>150		deg F	70	NA	1	-	08/02/18 09:15	1,1010A	BR

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-606

Lab Number: L1829475

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1142147-1								
Flash Point	99		-		96-104	-		

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-606

Lab Number: L1829475
Report Date: 08/07/18

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(*)
L1829475-01A	Plastic 250ml HNO3 preserved	A	<2	<2	2.5	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1829475-01B	Amber 120ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8082-LVI(7)
L1829475-01C	Amber 120ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8082-LVI(7)
L1829475-01D	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		FLASH()

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1829475
Project Number:	0437-017-001-606	**Report Date:**	08/07/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1829475
Project Number:	0437-017-001-606	**Report Date:**	08/07/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1829475
Project Number:	0437-017-001-606	**Report Date:**	08/07/18

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: 8-1-18

ALPHA Job #: L1829475

Client Information

Client: Benchmark Eng
Address: 755 Route 17K Newburgh NY 12550
Phone: (716) 818-8354
Fax: 856-0635
Email: JBehrendt@Tunkhannock.com

Project Information

Project Name: 1585 Hertel Ave
Project Location: Buffalo NY
Project #: 0437-017-001-0606
(Use Project name as Project #)
Project Manager: Chris Bosco
ALPHAQuote #:

Turn-Around Time

Standard: ☒
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

☐ Same as Client Info
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TOX	Flash	METALS	PCBs					Sample Specific Comments	Total Bottle
29475-01	Tank water	7/31/18	1045	Water	TAB	2	1	1	1						

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

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	D	A	C	A	

Relinquished By:	Date/Time	Received By:	Date/Time
	7/31/18 1055		
	7/31/18 1145		8/1/18 0725

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)

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

August 7, 2018

Results
Alpha Analytical
145 Flanders Road
Westborough, MA 01581

Certificate of Analysis

Project Name:	**General Price Sheet**	Workorder:	**2329549**
Purchase Order:		Workorder ID:	**Tank Water**

Dear Results:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, August 1, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

Re: Power Outage at ALS – Middletown Facility

To Whom It May Concern,

During the recent weather event in the Northeast and related flooding in our area, ALS–Middletown lost power the evening of Monday, July 23, 2018. Numerous trees damaged both utility poles and fell on power lines in the flooded areas making repair that much more difficult for the emergency repair groups. The laboratory was without power until the afternoon of Wednesday, July 25, 2018.

This power outage prevented ALS from operating our business in a normal manner during this period. The analysis and reporting of samples during this time period was significantly reduced. In addition to continuing to receive samples from our clients, our field service staff and sample receiving groups continued to collect, process and receive samples during this period. Analysis of short hold parameters was accomplished under emergency generator power. As power was restored to our facility, we have brought all systems back online with minimal damage to instruments and computers. In this situation a sudden loss of power can cause damage to sensitive electronic equipment so care is being taken to ensure the instruments are operating at optimal conditions.

As we return to full operational status, we will experience backlogs in our data analysis and processing. The lab staff is working diligently 24/7 to get all delayed projects, results and reports out as quickly as possible to prevent any further delays. If any data was compromised due to the power loss, an appropriate comment will be notated on your laboratory report.

If you have any questions or concerns regarding your sample results, please feel free to contact your ALS Project Manager or our Client Services Manager, Shiloh Summy at Shiloh.summy@alsglobal.com or (717)-577-3515.

Thank you for choosing ALS–Middletown to meet your analytical needs. We are committed to ensuring all data meets our stringent quality standards even in these unfortunate circumstances.

Sincerely,



Scott Brunk

Laboratory Director

ALS Environmental, Middletown

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2329549 Tank Water

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2329549001	Tank Water	Water	7/31/2018 10:45	8/1/2018 10:25	Collected by Client

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2329549 Tank Water

Lab ID: **2329549001** Date Collected: 7/31/2018 10:45 Matrix: Water

Sample ID: **Tank Water** Date Received: 8/1/2018 10:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*
WET CHEMISTRY										
Halogen, Total Organic (TOX)	71.1		ug/L	20.0	7.3	SW846 9020B		8/2/18 12:10	PAG	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 2329549 Tank Water

Lab ID	Sample ID	Analysis Method	Prep Method
2329549001	Tank Water	SW846 9020B	

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

QUALITY CONTROL DATA

Workorder: 2329549 Tank Water

QC Batch: WETC/208311 **Analysis Method:** SW846 9020B

QC Batch Method: SW846 9020B

Associated Lab Samples: 2329549001

METHOD BLANK: 2785157

Parameter	Blank Result	Units	Reporting Limit
Halogen, Total Organic (TOX)	10.0 U	ug/L	10.0

LABORATORY CONTROL SAMPLE: 2785158

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Halogen, Total Organic (TOX)	100	ug/L	100	100	80 - 120

LABORATORY CONTROL SAMPLE: 2785159

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Halogen, Total Organic (TOX)	100	ug/L	100	100	80 - 120

MATRIX SPIKE SAMPLE: 2785160 ORIGINAL: 2327208001

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limit
Halogen, Total Organic (TOX)	0	ug/L	200	206.12	103	80 - 120

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2329549 Tank Water

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2329549001	Tank Water			SW846 9020B	WETC/208311

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

* 2 3 2 9 5 4 9 *

Client Information

Client: ALPHA ANALYTICAL
Address: 8 WALKUP DRIVE
Westborough, MA 01581
Phone: 508-898-9220
Fax:
Email: subreports@alphalab.com

Project Information

Project Name: 1585 Hertel Ave
Project Location: Buffalo, NY
Project #
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 5 Day

Deliverables

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

Billing Information

☐ 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: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Alpha Reference# L1829475

Please specify Metals or TAL.

ANALYSIS

TOX

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TOX	Total Bottles
	Tank Water	7/31/2018	10:45	Water	TAB	X	2
	Date and time Not On Bottle. 2x A. 500mL. H2SO4. DN 8/1/18						
	8/1/18 1120						

	Y	N	Initials	Cooler Temp
Custody Seals Present?		✓	DN	3 °C
(if present) Seals Intact?		✓		
Received on Ice?	✓			Cooler #:
COC/Lbls Complete				
Cont in Good Cond?				Therm ID: 359
Correct Containers?				
Correct Samp Vol?				Ship Carrier
Correct Preservation?				FedEx UPS
Headspace/Volatiles?				DHL

Tracking #: 1Z E30 654 01 9150 2647

Container Type: A
Preservative: D

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
COMMON COURIER / ALS COURIER	7/31/18 1600 8/1/18 EST	COMMON COURIER / ALS COURIER	8/1/18 1025

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.

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

Serial_No:08071813:34

ANALYTICAL REPORT

Lab Number:	L1831747
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-006-005
Report Date:	08/28/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1831747
Report Date: 08/28/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1831747-01	TANK WEST WATER	WATER	BUFFALO, NY	08/14/18 10:00	08/14/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1831747
Report Date: 08/28/18

Case Narrative

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

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

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

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

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

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

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1831747
Project Number:	0437-017-001-006-005	**Report Date:**	08/28/18

Case Narrative (continued)

Report Submission

August 28, 2018: This final report includes the results of all requested analyses.

August 21, 2018: This is a preliminary report.

The analysis of Total Organic Halogen was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

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: Melissa Cripps

Title: Technical Director/Representative Date: 08/28/18

ORGANICS

PCBS

Project Name: 1585 HERTEL AVE.
Lab Number: L1831747
Project Number: 0437-017-001-006-005
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1831747-01
Client ID: TANK WEST WATER
Sample Location: BUFFALO, NY

Date Collected: 08/14/18 10:00
Date Received: 08/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/20/18 15:12
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 08/20/18 03:45
Cleanup Method: EPA 3665A
Cleanup Date: 08/20/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1831747
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/20/18 14:18
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 08/20/18 03:45
Cleanup Method: EPA 3665A
Cleanup Date: 08/20/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1148288-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	75		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-006-005

Lab Number: L1831747

Report Date: 08/28/18

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: WG1148288-2 WG1148288-3									
Aroclor 1016	55		63		40-140	14		50	A
Aroclor 1260	57		65		40-140	13		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		76		30-150	A
Decachlorobiphenyl	66		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		79		30-150	B
Decachlorobiphenyl	76		79		30-150	B

METALS

Project Name: 1585 HERTEL AVE.
Lab Number: L1831747
Project Number: 0437-017-001-006-005
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1831747-01
Client ID: TANK WEST WATER
Sample Location: BUFFALO, NY
Date Collected: 08/14/18 10:00
Date Received: 08/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00260		mg/l	0.00050	0.00016	1	08/20/18 10:30	08/21/18 10:19	EPA 3005A	1,6020B	AM
Barium, Total	0.4168		mg/l	0.00050	0.00017	1	08/20/18 10:30	08/21/18 10:19	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00024		mg/l	0.00020	0.00005	1	08/20/18 10:30	08/21/18 10:19	EPA 3005A	1,6020B	AM
Chromium, Total	0.00032	J	mg/l	0.00100	0.00017	1	08/20/18 10:30	08/21/18 10:19	EPA 3005A	1,6020B	AM
Lead, Total	0.00435		mg/l	0.00100	0.00034	1	08/20/18 10:30	08/21/18 10:19	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/16/18 16:32	08/17/18 17:09	EPA 7470A	1,7470A	MG
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/20/18 10:30	08/21/18 10:19	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/20/18 10:30	08/21/18 10:19	EPA 3005A	1,6020B	AM

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005
Lab Number: L1831747
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1147425-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/16/18 16:32	08/17/18 16:32	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1148398-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	08/20/18 10:30	08/21/18 09:42	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	08/20/18 10:30	08/21/18 09:42	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/20/18 10:30	08/21/18 09:42	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	08/20/18 10:30	08/21/18 09:42	1,6020B	AM
Lead, Total	0.00035	J	mg/l	0.00100	0.00034	1	08/20/18 10:30	08/21/18 09:42	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/20/18 10:30	08/21/18 09:42	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/20/18 10:30	08/21/18 09:42	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-006-005

Lab Number: L1831747

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1147425-2								
Mercury, Total	86		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1148398-2								
Arsenic, Total	108		-		80-120	-		
Barium, Total	108		-		80-120	-		
Cadmium, Total	114		-		80-120	-		
Chromium, Total	106		-		80-120	-		
Lead, Total	111		-		80-120	-		
Selenium, Total	110		-		80-120	-		
Silver, Total	117		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1831747
Report Date: 08/28/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1147425-3 QC Sample: L1831636-03 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00411	82		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1148398-3 QC Sample: L1831311-01 Client ID: MS Sample												
Arsenic, Total	0.0007	0.12	0.1360	113		-	-		75-125	-		20
Barium, Total	0.3260	2	2.478	108		-	-		75-125	-		20
Cadmium, Total	0.0005	0.051	0.05705	111		-	-		75-125	-		20
Chromium, Total	0.0024	0.2	0.2187	108		-	-		75-125	-		20
Lead, Total	0.00177	0.51	0.5632	110		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.130	108		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05769	115		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-006-005

Lab Number: L1831747

Report Date: 08/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1147425-4 QC Sample: L1831636-03 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1148398-4 QC Sample: L1831311-01 Client ID: DUP Sample						
Lead, Total	0.00177	0.00177	mg/l	0		20
Selenium, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1831747
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1831747-01
Client ID: TANK WEST WATER
Sample Location: BUFFALO, NY

Date Collected: 08/14/18 10:00
Date Received: 08/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	6.4		SU	-	NA	1	-	08/15/18 16:51	1,9040C	AS
Flash Point	>150		deg F	70	NA	1	-	08/15/18 10:05	1,1010A	BR

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-006-005

Lab Number: L1831747

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1146759-1								
Flash Point	101		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1146909-1								
pH	100		-		99-101	-		5

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-006-005

Lab Number: L1831747

Report Date: 08/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1146909-2 QC Sample: L1831859-01 Client ID: DUP Sample						
pH	7.0	7.0	SU	0		5

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1831747
Report Date: 08/28/18

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(*)
L1831747-01A	Amber 120ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L1831747-01B	Amber 120ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L1831747-01C	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1831747-01D	Amber 250ml unpreserved	A	7	7	3.2	Y	Absent		FLASH(),PH-9040(1)
L1831747-01E	Amber 500ml H2SO4 preserved	A	<2	<2	3.2	Y	Absent		SUB-TOX(28)
L1831747-01F	Amber 500ml H2SO4 preserved	A	<2	<2	3.2	Y	Absent		SUB-TOX(28)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1831747
Project Number:	0437-017-001-006-005	**Report Date:**	08/28/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1831747
Project Number:	0437-017-001-006-005	**Report Date:**	08/28/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1831747
Project Number:	0437-017-001-006-005	**Report Date:**	08/28/18

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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

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

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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: 8/15/18

ALPHA Job #: L1831747

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

Client Information
Client: Turnkey Env. Rest.
Address: 2558 Hamburg Tpke Buffalo NY 14218
Phone: 716-856-0635
Fax:
Email: cboran@turnkeylc.com

Project Information
Project Name: 1585 Hertel Ave
Project Location: Buffalo NY
Project #: 0457-017-001-006-005
(Use Project name as Project #)
Project Manager: Chris Boran
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
☐ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hexavalent	Flash	RCRA 8 Metals	PCBs	pH				Sample Specific Comments	Total Bottle
31747-01	Tank West Water	8/14/18	1000	W	TAB	X	X	X	X	X					6

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	P	A	A				
Preservative	D	A	C	A	A				

Relinquished By:	Date/Time	Received By:	Date/Time
Tom Behrendt	8/14/18	Audrey Tilley ANL	8/14/18 13:30
Audrey Tilley ANL	8/14/18 15:01	[signature]	8/15/18 0180

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
World Class Chemistry

Subcontract Chain of Custody

ALS Environmental (PA)
34 Dogwood Lane
Middletown, PA 17057

Alpha Job Number
L1831747

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716-427-5223
Email: cfox@alphalab.com

Project Information

Project Location: NY
Project Manager: Candace Fox

Turnaround & Deliverables Information

Due Date: 08/28/18
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L1831747

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	TANK WEST WATER	08-14-18 10:00	WATER	Extractable Organic Halogens (Halides)	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	Chris Tebeau	8/17/18 1445		
Form No: AL_subcoc				

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

August 24, 2018

Results
Alpha Analytical
145 Flanders Road
Westborough, MA 01581

Certificate of Analysis

Project Name:	**General Price Sheet**	Workorder:	**2333537**
Purchase Order:		Workorder ID:	**L1831747**

Dear Results:

Enclosed are the analytical results for samples received by the laboratory on Saturday, August 18, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

Re: Power Outage at ALS – Middletown Facility

To Whom It May Concern,

During the recent weather event in the Northeast and related flooding in our area, ALS–Middletown lost power the evening of Monday, July 23, 2018. Numerous trees damaged both utility poles and fell on power lines in the flooded areas making repair that much more difficult for the emergency repair groups. The laboratory was without power until the afternoon of Wednesday, July 25, 2018.

This power outage prevented ALS from operating our business in a normal manner during this period. The analysis and reporting of samples during this time period was significantly reduced. In addition to continuing to receive samples from our clients, our field service staff and sample receiving groups continued to collect, process and receive samples during this period. Analysis of short hold parameters was accomplished under emergency generator power. As power was restored to our facility, we have brought all systems back online with minimal damage to instruments and computers. In this situation a sudden loss of power can cause damage to sensitive electronic equipment so care is being taken to ensure the instruments are operating at optimal conditions.

As we return to full operational status, we will experience backlogs in our data analysis and processing. The lab staff is working diligently 24/7 to get all delayed projects, results and reports out as quickly as possible to prevent any further delays. If any data was compromised due to the power loss, an appropriate comment will be notated on your laboratory report.

If you have any questions or concerns regarding your sample results, please feel free to contact your ALS Project Manager or our Client Services Manager, Shiloh Summy at Shiloh.summy@alsglobal.com or (717)-577-3515.

Thank you for choosing ALS–Middletown to meet your analytical needs. We are committed to ensuring all data meets our stringent quality standards even in these unfortunate circumstances.

Sincerely,



Scott Brunk

Laboratory Director

ALS Environmental, Middletown

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2333537 L1831747

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2333537001	Tank West Water	Water	8/14/2018 10:00	8/18/2018 10:45	Collected by Client

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2333537 L1831747

Lab ID: **2333537001** Date Collected: 8/14/2018 10:00 Matrix: Water
Sample ID: **Tank West Water** Date Received: 8/18/2018 10:45

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*
WET CHEMISTRY										
Halogen, Total Organic (TOX)	67.0		ug/L	20.0	7.3	SW846 9020B		8/23/18 12:19	PAG	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 2333537 L1831747

Lab ID	Sample ID	Analysis Method	Prep Method
2333537001	Tank West Water	SW846 9020B	

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

QUALITY CONTROL DATA

Workorder: 2333537 L1831747

QC Batch: WETC/209360 **Analysis Method:** SW846 9020B

QC Batch Method: SW846 9020B

Associated Lab Samples: 2333537001

METHOD BLANK: 2797356

Parameter	Blank Result	Units	Reporting Limit
Halogen, Total Organic (TOX)	10.0 U	ug/L	10.0

LABORATORY CONTROL SAMPLE: 2797357

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Halogen, Total Organic (TOX)	96.8	ug/L	100	96.8	80 - 120

LABORATORY CONTROL SAMPLE: 2797358

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Halogen, Total Organic (TOX)	96.7	ug/L	100	96.7	80 - 120

METHOD BLANK: 2797360

Parameter	Blank Result	Units	Reporting Limit
Halogen, Total Organic (TOX)	10.0 U	ug/L	10.0

MATRIX SPIKE SAMPLE: 2797752 ORIGINAL: 2333407002

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limit
Halogen, Total Organic (TOX)	9.9	ug/L	200	201.26	95.7	80 - 120

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2333537 L1831747

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2333537001	Tank West Water			SW846 9020B	WETC/209360

*333537

Subcontract Chain of Custody

ALS Environmental (PA)
34 Dogwood Lane
Middletown, PA 17057

2333537

Alpha Job Number
L1831747

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716-427-5223 Email: cfox@alphalab.com	Project Location: NY Project Manager: Candace Fox **Turnaround & Deliverables Information** Due Date: 08/28/18 Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L1831747

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	TANK WEST WATER	08-14-18 10:00	WATER	Extractable Organic Halogens (Halides)	

* 2 AG 500mL H_2SO_4 Bottles
2C
8/20/18

	Y	N	Initials	Cooler Temp: 5 °C
Custody Seals Present?				
(if present) Seals Intact?				Cooler #:
Received on Ice?				
COC/Lbls Complete				ThermID: IR1359
Cont in Good Cond?				
Correct Containers?				Ship Carrier
Correct Samp Vol?				FedEx UPS
Correct Preservation?				DHL
Headspace/Volatiles?				

Tracking #: 77 8300 6544 7903 8171

8/20/18 1640

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	Chris Lebeau	8/17/18 1445	COMMON COURIER / ALS COURIER	8-18-18 1045
	~~COMMON COURIER / ALS COURIER~~			
Form No: AL_subcoc				

Serial_No:08281809:42

ANALYTICAL REPORT

Lab Number:	L1832303
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL IRM
Project Number:	0437-017-001-006-005
Report Date:	08/21/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005

Lab Number: L1832303
Report Date: 08/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832303-01	UST-1 SW-1 10-11FT	SOIL	BUFFALO, NY	08/16/18 15:25	08/16/18
L1832303-02	UST-1 SW-2 10-11FT	SOIL	BUFFALO, NY	08/16/18 15:41	08/16/18

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005

Lab Number: L1832303
Report Date: 08/21/18

Case Narrative

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

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

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

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

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

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

Project Name:	1585 HERTEL IRM	**Lab Number:**	L1832303
Project Number:	0437-017-001-006-005	**Report Date:**	08/21/18

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 08/21/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-01
Client ID: UST-1 SW-1 10-11FT
Sample Location: BUFFALO, NY

Date Collected: 08/16/18 15:25
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/18/18 11:03
Analyst: AD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.8	J	ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.86	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.86	0.11	1
Dibromochloromethane	ND		ug/kg	0.86	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.23	1
Tetrachloroethene	ND		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.46	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Chloromethane	ND		ug/kg	3.4	0.80	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	ND		ug/kg	0.86	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: 1585 HERTEL IRM **Lab Number:** L1832303

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-01 Date Collected: 08/16/18 15:25

Client ID: UST-1 SW-1 10-11FT Date Received: 08/16/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	2.2		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.86	0.15	1
Styrene	ND		ug/kg	0.86	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.78	1
Acetone	15		ug/kg	8.6	4.1	1
Carbon disulfide	ND		ug/kg	8.6	3.9	1
2-Butanone	ND		ug/kg	8.6	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	1.1	1
2-Hexanone	ND		ug/kg	8.6	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.86	0.24	1
n-Butylbenzene	ND		ug/kg	0.86	0.14	1
sec-Butylbenzene	ND		ug/kg	0.86	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.09	1
n-Propylbenzene	ND		ug/kg	0.86	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
Methyl Acetate	ND		ug/kg	3.4	0.82	1
Cyclohexane	ND		ug/kg	8.6	0.47	1
1,4-Dioxane	ND		ug/kg	86	30.	1
Freon-113	ND		ug/kg	3.4	0.59	1
Methyl cyclohexane	ND		ug/kg	3.4	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-02
Client ID: UST-1 SW-2 10-11FT
Sample Location: BUFFALO, NY

Date Collected: 08/16/18 15:41
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/19/18 14:58
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	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	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.79	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	2.3	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	ND		ug/kg	0.56	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: 1585 HERTEL IRM **Lab Number:** L1832303

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-02 Date Collected: 08/16/18 15:41

Client ID: UST-1 SW-2 10-11FT Date Received: 08/16/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	8.2		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	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	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	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	2.3	0.23	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	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
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	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
1,4-Dioxane	ND		ug/kg	110	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	95		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	92		70-130

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/18/18 10:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1148265-5					
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	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: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/18/18 10:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1148265-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/18/18 10:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1148265-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	98		70-130

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/18 14:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1148299-5					
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	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: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/18 14:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1148299-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/18 14:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1148299-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	87		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL IRM

Project Number: 0437-017-001-006-005

Lab Number: L1832303

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1148265-3 WG1148265-4								
Methylene chloride	91		91		70-130	0		30
1,1-Dichloroethane	96		95		70-130	1		30
Chloroform	98		96		70-130	2		30
Carbon tetrachloride	104		105		70-130	1		30
1,2-Dichloropropane	98		98		70-130	0		30
Dibromochloromethane	92		93		70-130	1		30
1,1,2-Trichloroethane	94		95		70-130	1		30
Tetrachloroethene	94		94		70-130	0		30
Chlorobenzene	88		89		70-130	1		30
Trichlorofluoromethane	105		102		70-139	3		30
1,2-Dichloroethane	97		98		70-130	1		30
1,1,1-Trichloroethane	101		102		70-130	1		30
Bromodichloromethane	99		100		70-130	1		30
trans-1,3-Dichloropropene	87		87		70-130	0		30
cis-1,3-Dichloropropene	102		103		70-130	1		30
Bromoform	90		90		70-130	0		30
1,1,2,2-Tetrachloroethane	92		94		70-130	2		30
Benzene	94		95		70-130	1		30
Toluene	89		88		70-130	1		30
Ethylbenzene	90		90		70-130	0		30
Chloromethane	90		88		52-130	2		30
Bromomethane	92		90		57-147	2		30
Vinyl chloride	93		92		67-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005

Lab Number: L1832303
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1148265-3 WG1148265-4								
Chloroethane	96		94		50-151	2		30
1,1-Dichloroethene	99		99		65-135	0		30
trans-1,2-Dichloroethene	96		95		70-130	1		30
Trichloroethene	100		100		70-130	0		30
1,2-Dichlorobenzene	87		89		70-130	2		30
1,3-Dichlorobenzene	88		89		70-130	1		30
1,4-Dichlorobenzene	87		89		70-130	2		30
Methyl tert butyl ether	95		95		66-130	0		30
p/m-Xylene	90		91		70-130	1		30
o-Xylene	90		90		70-130	0		30
cis-1,2-Dichloroethene	95		96		70-130	1		30
Styrene	87		88		70-130	1		30
Dichlorodifluoromethane	90		89		30-146	1		30
Acetone	94		92		54-140	2		30
Carbon disulfide	92		92		59-130	0		30
2-Butanone	86		81		70-130	6		30
4-Methyl-2-pentanone	85		84		70-130	1		30
2-Hexanone	88		88		70-130	0		30
Bromochloromethane	98		99		70-130	1		30
1,2-Dibromoethane	93		94		70-130	1		30
n-Butylbenzene	93		93		70-130	0		30
sec-Butylbenzene	93		94		70-130	1		30
1,2-Dibromo-3-chloropropane	83		82		68-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005

Lab Number: L1832303
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1148265-3 WG1148265-4								
Isopropylbenzene	91		92		70-130	1		30
p-Isopropyltoluene	90		92		70-130	2		30
n-Propylbenzene	91		92		70-130	1		30
1,2,3-Trichlorobenzene	84		89		70-130	6		30
1,2,4-Trichlorobenzene	87		90		70-130	3		30
1,3,5-Trimethylbenzene	89		89		70-130	0		30
1,2,4-Trimethylbenzene	88		89		70-130	1		30
Methyl Acetate	86		87		51-146	1		30
Cyclohexane	106		106		59-142	0		30
1,4-Dioxane	93		97		65-136	4		30
Freon-113	100		99		50-139	1		30
Methyl cyclohexane	107		108		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	103		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL IRM

Project Number: 0437-017-001-006-005

Lab Number: L1832303

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1148299-3 WG1148299-4								
Methylene chloride	100		99		70-130	1		30
1,1-Dichloroethane	102		101		70-130	1		30
Chloroform	94		95		70-130	1		30
Carbon tetrachloride	86		84		70-130	2		30
1,2-Dichloropropane	107		106		70-130	1		30
Dibromochloromethane	90		88		70-130	2		30
1,1,2-Trichloroethane	102		100		70-130	2		30
Tetrachloroethene	89		88		70-130	1		30
Chlorobenzene	94		93		70-130	1		30
Trichlorofluoromethane	75		76		70-139	1		30
1,2-Dichloroethane	90		89		70-130	1		30
1,1,1-Trichloroethane	89		88		70-130	1		30
Bromodichloromethane	91		90		70-130	1		30
trans-1,3-Dichloropropene	97		96		70-130	1		30
cis-1,3-Dichloropropene	97		96		70-130	1		30
Bromoform	88		89		70-130	1		30
1,1,2,2-Tetrachloroethane	104		104		70-130	0		30
Benzene	99		97		70-130	2		30
Toluene	97		95		70-130	2		30
Ethylbenzene	97		96		70-130	1		30
Chloromethane	103		100		52-130	3		30
Bromomethane	92		88		57-147	4		30
Vinyl chloride	83		81		67-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL IRM

Project Number: 0437-017-001-006-005

Lab Number: L1832303

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1148299-3 WG1148299-4								
Chloroethane	74		72		50-151	3		30
1,1-Dichloroethene	95		93		65-135	2		30
trans-1,2-Dichloroethene	96		94		70-130	2		30
Trichloroethene	94		92		70-130	2		30
1,2-Dichlorobenzene	93		92		70-130	1		30
1,3-Dichlorobenzene	94		92		70-130	2		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	94		94		66-130	0		30
p/m-Xylene	95		94		70-130	1		30
o-Xylene	94		94		70-130	0		30
cis-1,2-Dichloroethene	96		95		70-130	1		30
Styrene	97		96		70-130	1		30
Dichlorodifluoromethane	66		66		30-146	0		30
Acetone	106		104		54-140	2		30
Carbon disulfide	93		91		59-130	2		30
2-Butanone	116		116		70-130	0		30
4-Methyl-2-pentanone	110		112		70-130	2		30
2-Hexanone	104		106		70-130	2		30
Bromochloromethane	90		89		70-130	1		30
1,2-Dibromoethane	94		94		70-130	0		30
n-Butylbenzene	101		99		70-130	2		30
sec-Butylbenzene	99		98		70-130	1		30
1,2-Dibromo-3-chloropropane	85		87		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL IRM

Project Number: 0437-017-001-006-005

Lab Number: L1832303

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1148299-3 WG1148299-4								
Isopropylbenzene	100		99		70-130	1		30
p-Isopropyltoluene	96		95		70-130	1		30
n-Propylbenzene	103		102		70-130	1		30
1,2,3-Trichlorobenzene	90		89		70-130	1		30
1,2,4-Trichlorobenzene	90		89		70-130	1		30
1,3,5-Trimethylbenzene	99		98		70-130	1		30
1,2,4-Trimethylbenzene	98		97		70-130	1		30
Methyl Acetate	108		107		51-146	1		30
Cyclohexane	108		106		59-142	2		30
1,4-Dioxane	96		96		65-136	0		30
Freon-113	93		92		50-139	1		30
Methyl cyclohexane	96		94		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		92		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	109		109		70-130
Dibromofluoromethane	91		90		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-01
Client ID: UST-1 SW-1 10-11FT
Sample Location: BUFFALO, NY

Date Collected: 08/16/18 15:25
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/18/18 22:49
Analyst: RC
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 08/18/18 02:46

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	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL IRM **Lab Number:** L1832303

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-01 Date Collected: 08/16/18 15:25

Client ID: UST-1 SW-1 10-11FT Date Received: 08/16/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	69		18-120

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-02
Client ID: UST-1 SW-2 10-11FT
Sample Location: BUFFALO, NY

Date Collected: 08/16/18 15:41
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/18/18 23:15
Analyst: RC
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 08/18/18 02:46

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	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL IRM
Lab Number: L1832303
Project Number: 0437-017-001-006-005
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-02
Client ID: UST-1 SW-2 10-11FT
Sample Location: BUFFALO, NY

Date Collected: 08/16/18 15:41
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	79		18-120

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005
Lab Number: L1832303
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/18/18 19:46
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/18/18 02:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1148003-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
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.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005

Lab Number: L1832303
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/18/18 19:46
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/18/18 02:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1148003-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL IRM

Project Number: 0437-017-001-006-005

Lab Number: L1832303

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1148003-2 WG1148003-3								
Acenaphthene	77		82		31-137	6		50
Hexachlorobenzene	83		90		40-140	8		50
Fluoranthene	80		83		40-140	4		50
Naphthalene	75		78		40-140	4		50
Benzo(a)anthracene	75		79		40-140	5		50
Benzo(a)pyrene	82		81		40-140	1		50
Benzo(b)fluoranthene	78		85		40-140	9		50
Benzo(k)fluoranthene	76		80		40-140	5		50
Chrysene	75		80		40-140	6		50
Acenaphthylene	83		85		40-140	2		50
Anthracene	82		83		40-140	1		50
Benzo(ghi)perylene	71		80		40-140	12		50
Fluorene	79		83		40-140	5		50
Phenanthrene	81		82		40-140	1		50
Dibenzo(a,h)anthracene	72		80		40-140	11		50
Indeno(1,2,3-cd)pyrene	73		80		40-140	9		50
Pyrene	80		82		35-142	2		50
Dibenzofuran	83		84		40-140	1		50
Pentachlorophenol	88		95		17-109	8		50
Phenol	76		78		26-90	3		50
2-Methylphenol	77		80		30-130.	4		50
3-Methylphenol/4-Methylphenol	82		85		30-130	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL IRM

Project Number: 0437-017-001-006-005

Lab Number: L1832303

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1148003-2 WG1148003-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		71		25-120
Phenol-d6	72		74		10-120
Nitrobenzene-d5	64		66		23-120
2-Fluorobiphenyl	74		78		30-120
2,4,6-Tribromophenol	93		101		10-136
4-Terphenyl-d14	78		81		18-120

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005

Lab Number: L1832303
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-01
Client ID: UST-1 SW-1 10-11FT
Sample Location: BUFFALO, NY

Date Collected: 08/16/18 15:25
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	08/17/18 13:28	121,2540G	RI

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005

Lab Number: L1832303
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832303-02
Client ID: UST-1 SW-2 10-11FT
Sample Location: BUFFALO, NY

Date Collected: 08/16/18 15:41
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	08/17/18 13:28	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL IRM

Project Number: 0437-017-001-006-005

Lab Number: L1832303

Report Date: 08/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1147831-1 QC Sample: L1832275-01 Client ID: DUP Sample						
Solids, Total	80.6	80.8	%	0		20

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005

Lab Number: L1832303
Report Date: 08/21/18

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(*)
L1832303-01A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L1832303-01B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L1832303-01C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L1832303-01E	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7)
L1832303-01X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L1832303-01Y	Vial Water preserved split	A	NA		2.5	Y	Absent	17-AUG-18 13:11	NYTCL-8260HLW-R2(14)
L1832303-01Z	Vial Water preserved split	A	NA		2.5	Y	Absent	17-AUG-18 13:11	NYTCL-8260HLW-R2(14)
L1832303-02A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L1832303-02B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L1832303-02C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L1832303-02E	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7)
L1832303-02X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L1832303-02Y	Vial Water preserved split	A	NA		2.5	Y	Absent	17-AUG-18 13:11	NYTCL-8260HLW-R2(14)
L1832303-02Z	Vial Water preserved split	A	NA		2.5	Y	Absent	17-AUG-18 13:11	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL IRM	**Lab Number:**	L1832303
Project Number:	0437-017-001-006-005	**Report Date:**	08/21/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL IRM	**Lab Number:**	L1832303
Project Number:	0437-017-001-006-005	**Report Date:**	08/21/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL IRM	**Lab Number:**	L1832303
Project Number:	0437-017-001-006-005	**Report Date:**	08/21/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 8/16/18

ALPHA Job #: L1882303

Client Information
Client: Benchmark Eng
Address: 255 Hawley, Ste 3
Lockport, NY 14094
Phone: (716) 218-8355
Fax: (716) 956-0883
Email: TB...@Tonawanda...

Project Information
Project Name: 1585 Hertel TRM
Project Location: Buffalo NY
Project #
(Use Project name as Project #)
Project Manager: Chris Boron
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:
CAT B

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
8260 - STARS
8260 Rnt 375/TAL SVOC

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	8260 STARS	8260 Rnt 375/TAL SVOC	Sample Specific Comments	Total Bottle
32303 - 01	ADC #1 SW-1	8/16/18	1525	SW	TAB	X	X		5
02	ADC #1 SW-2	8/16/18	1544	SW	TAB	X	X		5

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

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

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

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
TAB AAL	8/16/18 16 Aug 2018 1638	AAL Chris Cleary	16 Aug 2018 1638 8/16/18 1638

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:	L1832544
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-006-005
Report Date:	08/21/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832544-01	UST-1 SW-3 8.5'	SOIL	BUFFALO, NY	08/17/18 14:00	08/17/18
L1832544-02	UST-1 B-1 13.5'	SOIL	BUFFALO, NY	08/17/18 14:42	08/17/18
L1832544-03	UST-1 B-2 13.5'	SOIL	BUFFALO, NY	08/17/18 15:03	08/17/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

Case Narrative

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

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

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

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

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

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

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1832544
Project Number:	0437-017-001-006-005	**Report Date:**	08/21/18

Case Narrative (continued)

Sample Receipt

The analyses performed and sample collection information were specified by the client.

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: Cristin Walker

Title: Technical Director/Representative Date: 08/21/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1832544
Project Number: 0437-017-001-006-005
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-01
Client ID: UST-1 SW-3 8.5'
Sample Location: BUFFALO, NY

Date Collected: 08/17/18 14:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/19/18 22:10
Analyst: MV
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.3	J	ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-01 Date Collected: 08/17/18 14:00

Client ID: UST-1 SW-3 8.5' Date Received: 08/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	18		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	74		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	7.0	J	ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
n-Butylbenzene	0.68	J	ug/kg	0.96	0.16	1
sec-Butylbenzene	0.90	J	ug/kg	0.96	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Isopropylbenzene	5.4		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
n-Propylbenzene	12		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.8	0.91	1
Cyclohexane	0.96	J	ug/kg	9.6	0.52	1
1,4-Dioxane	ND		ug/kg	96	34.	1
Freon-113	ND		ug/kg	3.8	0.66	1
Methyl cyclohexane	0.92	J	ug/kg	3.8	0.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	92		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1832544
Project Number: 0437-017-001-006-005
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-02
Client ID: UST-1 B-1 13.5'
Sample Location: BUFFALO, NY

Date Collected: 08/17/18 14:42
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/19/18 21:45
Analyst: MV
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	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	3.8	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	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	1.2		ug/kg	0.47	0.16	1
Toluene	7.5		ug/kg	0.94	0.51	1
Ethylbenzene	0.89	J	ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.94	0.32	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	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-02 Date Collected: 08/17/18 14:42

Client ID: UST-1 B-1 13.5' Date Received: 08/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	12		ug/kg	1.9	0.19	1
p/m-Xylene	4.4		ug/kg	1.9	0.53	1
o-Xylene	2.3		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	10		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
Bromochloromethane	ND		ug/kg	1.9	0.19	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
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
n-Propylbenzene	0.20	J	ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	0.53	J	ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	1.6	J	ug/kg	1.9	0.31	1
Methyl Acetate	ND		ug/kg	3.8	0.90	1
Cyclohexane	ND		ug/kg	9.4	0.51	1
1,4-Dioxane	ND		ug/kg	94	33.	1
Freon-113	ND		ug/kg	3.8	0.65	1
Methyl cyclohexane	ND		ug/kg	3.8	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	91		70-130

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005
Lab Number: L1832544
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-03
Client ID: UST-1 B-2 13.5'
Sample Location: BUFFALO, NY

Date Collected: 08/17/18 15:03
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/19/18 21:19
Analyst: MV
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	0.18	J	ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-03 Date Collected: 08/17/18 15:03

Client ID: UST-1 B-2 13.5' Date Received: 08/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	9.2		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		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	0.97	1
Acetone	19		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	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	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	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
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
Methyl Acetate	ND		ug/kg	4.3	1.0	1
Cyclohexane	ND		ug/kg	11	0.58	1
1,4-Dioxane	ND		ug/kg	110	37.	1
Freon-113	ND		ug/kg	4.3	0.74	1
Methyl cyclohexane	ND		ug/kg	4.3	0.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	92		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/18 14:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1148299-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/18 14:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1148299-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/18 14:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1148299-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	87		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1148299-3 WG1148299-4								
Methylene chloride	100		99		70-130	1		30
1,1-Dichloroethane	102		101		70-130	1		30
Chloroform	94		95		70-130	1		30
Carbon tetrachloride	86		84		70-130	2		30
1,2-Dichloropropane	107		106		70-130	1		30
Dibromochloromethane	90		88		70-130	2		30
1,1,2-Trichloroethane	102		100		70-130	2		30
Tetrachloroethene	89		88		70-130	1		30
Chlorobenzene	94		93		70-130	1		30
Trichlorofluoromethane	75		76		70-139	1		30
1,2-Dichloroethane	90		89		70-130	1		30
1,1,1-Trichloroethane	89		88		70-130	1		30
Bromodichloromethane	91		90		70-130	1		30
trans-1,3-Dichloropropene	97		96		70-130	1		30
cis-1,3-Dichloropropene	97		96		70-130	1		30
Bromoform	88		89		70-130	1		30
1,1,2,2-Tetrachloroethane	104		104		70-130	0		30
Benzene	99		97		70-130	2		30
Toluene	97		95		70-130	2		30
Ethylbenzene	97		96		70-130	1		30
Chloromethane	103		100		52-130	3		30
Bromomethane	92		88		57-147	4		30
Vinyl chloride	83		81		67-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1148299-3 WG1148299-4								
Chloroethane	74		72		50-151	3		30
1,1-Dichloroethene	95		93		65-135	2		30
trans-1,2-Dichloroethene	96		94		70-130	2		30
Trichloroethene	94		92		70-130	2		30
1,2-Dichlorobenzene	93		92		70-130	1		30
1,3-Dichlorobenzene	94		92		70-130	2		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	94		94		66-130	0		30
p/m-Xylene	95		94		70-130	1		30
o-Xylene	94		94		70-130	0		30
cis-1,2-Dichloroethene	96		95		70-130	1		30
Styrene	97		96		70-130	1		30
Dichlorodifluoromethane	66		66		30-146	0		30
Acetone	106		104		54-140	2		30
Carbon disulfide	93		91		59-130	2		30
2-Butanone	116		116		70-130	0		30
4-Methyl-2-pentanone	110		112		70-130	2		30
2-Hexanone	104		106		70-130	2		30
Bromochloromethane	90		89		70-130	1		30
1,2-Dibromoethane	94		94		70-130	0		30
n-Butylbenzene	101		99		70-130	2		30
sec-Butylbenzene	99		98		70-130	1		30
1,2-Dibromo-3-chloropropane	85		87		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-006-005

Lab Number: L1832544

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1148299-3 WG1148299-4								
Isopropylbenzene	100		99		70-130	1		30
p-Isopropyltoluene	96		95		70-130	1		30
n-Propylbenzene	103		102		70-130	1		30
1,2,3-Trichlorobenzene	90		89		70-130	1		30
1,2,4-Trichlorobenzene	90		89		70-130	1		30
1,3,5-Trimethylbenzene	99		98		70-130	1		30
1,2,4-Trimethylbenzene	98		97		70-130	1		30
Methyl Acetate	108		107		51-146	1		30
Cyclohexane	108		106		59-142	2		30
1,4-Dioxane	96		96		65-136	0		30
Freon-113	93		92		50-139	1		30
Methyl cyclohexane	96		94		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		92		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	109		109		70-130
Dibromofluoromethane	91		90		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1832544
Project Number: 0437-017-001-006-005
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-01
Client ID: UST-1 SW-3 8.5'
Sample Location: BUFFALO, NY

Date Collected: 08/17/18 14:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/18/18 21:04
Analyst: RC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 08/18/18 05:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-01 Date Collected: 08/17/18 14:00

Client ID: UST-1 SW-3 8.5' Date Received: 08/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	99		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1832544
Project Number: 0437-017-001-006-005
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-02
Client ID: UST-1 B-1 13.5'
Sample Location: BUFFALO, NY

Date Collected: 08/17/18 14:42
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/18/18 21:30
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 08/18/18 05:55

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	20.	1
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	150	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	29.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-02 Date Collected: 08/17/18 14:42

Client ID: UST-1 B-1 13.5' Date Received: 08/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	90		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1832544
Project Number: 0437-017-001-006-005
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-03
Client ID: UST-1 B-2 13.5'
Sample Location: BUFFALO, NY

Date Collected: 08/17/18 15:03
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/18/18 21:56
Analyst: RC
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 08/18/18 05:55

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	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-03 Date Collected: 08/17/18 15:03

Client ID: UST-1 B-2 13.5' Date Received: 08/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	114		10-136
4-Terphenyl-d14	101		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832544

Project Number: 0437-017-001-006-005 **Report Date:** 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/18/18 19:46
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/18/18 02:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1148003-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
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.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005
Lab Number: L1832544
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/18/18 19:46
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/18/18 02:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1148003-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-006-005

Lab Number: L1832544

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1148003-2 WG1148003-3								
Acenaphthene	77		82		31-137	6		50
Hexachlorobenzene	83		90		40-140	8		50
Fluoranthene	80		83		40-140	4		50
Naphthalene	75		78		40-140	4		50
Benzo(a)anthracene	75		79		40-140	5		50
Benzo(a)pyrene	82		81		40-140	1		50
Benzo(b)fluoranthene	78		85		40-140	9		50
Benzo(k)fluoranthene	76		80		40-140	5		50
Chrysene	75		80		40-140	6		50
Acenaphthylene	83		85		40-140	2		50
Anthracene	82		83		40-140	1		50
Benzo(ghi)perylene	71		80		40-140	12		50
Fluorene	79		83		40-140	5		50
Phenanthrene	81		82		40-140	1		50
Dibenzo(a,h)anthracene	72		80		40-140	11		50
Indeno(1,2,3-cd)pyrene	73		80		40-140	9		50
Pyrene	80		82		35-142	2		50
Dibenzofuran	83		84		40-140	1		50
Pentachlorophenol	88		95		17-109	8		50
Phenol	76		78		26-90	3		50
2-Methylphenol	77		80		30-130.	4		50
3-Methylphenol/4-Methylphenol	82		85		30-130	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1148003-2 WG1148003-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		71		25-120
Phenol-d6	72		74		10-120
Nitrobenzene-d5	64		66		23-120
2-Fluorobiphenyl	74		78		30-120
2,4,6-Tribromophenol	93		101		10-136
4-Terphenyl-d14	78		81		18-120

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-01
Client ID: UST-1 SW-3 8.5'
Sample Location: BUFFALO, NY

Date Collected: 08/17/18 14:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	08/18/18 09:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-02
Client ID: UST-1 B-1 13.5'
Sample Location: BUFFALO, NY

Date Collected: 08/17/18 14:42
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	08/18/18 09:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1832544-03
Client ID: UST-1 B-2 13.5'
Sample Location: BUFFALO, NY

Date Collected: 08/17/18 15:03
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	08/18/18 09:50	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-006-005

Lab Number: L1832544

Report Date: 08/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1148067-1 QC Sample: L1832469-01 Client ID: DUP Sample						
Solids, Total	88.7	90.5	%	2		20

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

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(*)
L1832544-01A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-01B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-01C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-01D	Glass 250ml/8oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TS(7)
L1832544-01X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-01Y	Vial Water preserved split	A	NA		3.3	Y	Absent	18-AUG-18 05:32	NYTCL-8260HLW(14)
L1832544-01Z	Vial Water preserved split	A	NA		3.3	Y	Absent	18-AUG-18 05:32	NYTCL-8260HLW(14)
L1832544-02A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-02B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-02C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-02D	Glass 250ml/8oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TS(7)
L1832544-02X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-02Y	Vial Water preserved split	A	NA		3.3	Y	Absent	18-AUG-18 05:32	NYTCL-8260HLW(14)
L1832544-02Z	Vial Water preserved split	A	NA		3.3	Y	Absent	18-AUG-18 05:32	NYTCL-8260HLW(14)
L1832544-03A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-03B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-03C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-03D	Glass 250ml/8oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TS(7)
L1832544-03X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1832544-03Y	Vial Water preserved split	A	NA		3.3	Y	Absent	18-AUG-18 05:32	NYTCL-8260HLW(14)
L1832544-03Z	Vial Water preserved split	A	NA		3.3	Y	Absent	18-AUG-18 05:32	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1832544
Project Number:	0437-017-001-006-005	**Report Date:**	08/21/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1832544
Project Number:	0437-017-001-006-005	**Report Date:**	08/21/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1832544
Project Number:	0437-017-001-006-005	**Report Date:**	08/21/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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: 8/17/18

ALPHA Job #: L1832544

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

Client Information
Client: Berkmont Eng
Address: 255K Hamburg Tpk
Lackawanna NY 14218
Phone: (716) 818-8858
Fax:
Email: JBehrendt@Tutella.com

Project Information
Project Name: 1585 Hertel Ave
Project Location: Buffalo NY
Project #
(Use Project name as Project #)
Project Manager: Chris Bono
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3 DAY

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:

Please specify Metals or TAL.

ANALYSIS
TAL+CP-51 Metals
Part 375 SVOA

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	Total Bottle	Sample Specific Comments
32544-01	UST-1 SW-3 8.5'	8/17/18	1400		TAB	X X	
-02	UST-1 B-1 13.5'		1442			X X	
-03	UST-1 B-2 13.5'		1503	SOIL		X X	

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

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

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

Container Type	E	A											
Preservative	A	A											

Relinquished By:	Date/Time	Received By:	Date/Time
	8/17/18 1611	AHL	8/17/18 1611
AHL	8/17/18 1830	Nam	8/17/18 01:30

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:	L1832711
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-005-002
Report Date:	08/23/18

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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: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832711-01	PUMP ISLAND SW-1 4.5'	SOIL	BUFFALO, NY	08/20/18 15:15	08/20/18
L1832711-02	PUMP ISLAND SW-2 5.5'	SOIL	BUFFALO, NY	08/20/18 15:33	08/20/18
L1832711-03	PUMP ISLAND SW-3 4.5'	SOIL	BUFFALO, NY	08/20/18 15:45	08/20/18
L1832711-04	PUMP ISLAND SW-4 5.0'	SOIL	BUFFALO, NY	08/20/18 15:56	08/20/18
L1832711-05	PUMP ISLAND B-1 7.5'	SOIL	BUFFALO, NY	08/20/18 14:10	08/20/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

Case Narrative

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

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

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

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

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

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

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1832711
Project Number:	0437-017-001-005-002	**Report Date:**	08/23/18

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 08/23/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-01
Client ID: PUMP ISLAND SW-1 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:15
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/22/18 12:28
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.1	J	ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		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	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	0.33	J	ug/kg	0.55	0.18	1
Toluene	0.78	J	ug/kg	1.1	0.60	1
Ethylbenzene	0.37	J	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	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-01 Date Collected: 08/20/18 15:15

Client ID: PUMP ISLAND SW-1 4.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.42	J	ug/kg	2.2	0.22	1
p/m-Xylene	1.2	J	ug/kg	2.2	0.62	1
o-Xylene	0.40	J	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	20		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
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	0.64	J	ug/kg	2.2	0.37	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	1.6	J	ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	110	39.	1
Freon-113	ND		ug/kg	4.4	0.76	1
Methyl cyclohexane	1.1	J	ug/kg	4.4	0.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	81		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-02
Client ID: PUMP ISLAND SW-2 5.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:33
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/22/18 13:46
Analyst: AD
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	400	180	1
1,1-Dichloroethane	ND		ug/kg	80	12.	1
Chloroform	ND		ug/kg	120	11.	1
Carbon tetrachloride	ND		ug/kg	80	18.	1
1,2-Dichloropropane	ND		ug/kg	80	9.9	1
Dibromochloromethane	ND		ug/kg	80	11.	1
1,1,2-Trichloroethane	ND		ug/kg	80	21.	1
Tetrachloroethene	ND		ug/kg	40	16.	1
Chlorobenzene	ND		ug/kg	40	10.	1
Trichlorofluoromethane	ND		ug/kg	320	55.	1
1,2-Dichloroethane	ND		ug/kg	80	20.	1
1,1,1-Trichloroethane	ND		ug/kg	40	13.	1
Bromodichloromethane	ND		ug/kg	40	8.7	1
trans-1,3-Dichloropropene	ND		ug/kg	80	22.	1
cis-1,3-Dichloropropene	ND		ug/kg	40	12.	1
Bromoform	ND		ug/kg	320	20.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	40	13.	1
Benzene	860		ug/kg	40	13.	1
Toluene	200		ug/kg	80	43.	1
Ethylbenzene	1900		ug/kg	80	11.	1
Chloromethane	ND		ug/kg	320	74.	1
Bromomethane	ND		ug/kg	160	46.	1
Vinyl chloride	ND		ug/kg	80	27.	1
Chloroethane	ND		ug/kg	160	36.	1
1,1-Dichloroethene	ND		ug/kg	80	19.	1
trans-1,2-Dichloroethene	ND		ug/kg	120	11.	1
Trichloroethene	ND		ug/kg	40	11.	1
1,2-Dichlorobenzene	ND		ug/kg	160	11.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-02 Date Collected: 08/20/18 15:33

Client ID: PUMP ISLAND SW-2 5.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	160	12.	1
1,4-Dichlorobenzene	ND		ug/kg	160	14.	1
Methyl tert butyl ether	ND		ug/kg	160	16.	1
p/m-Xylene	8000		ug/kg	160	44.	1
o-Xylene	2100		ug/kg	80	23.	1
cis-1,2-Dichloroethene	ND		ug/kg	80	14.	1
Styrene	ND		ug/kg	80	16.	1
Dichlorodifluoromethane	ND		ug/kg	800	73.	1
Acetone	ND		ug/kg	800	380	1
Carbon disulfide	ND		ug/kg	800	360	1
2-Butanone	ND		ug/kg	800	180	1
4-Methyl-2-pentanone	ND		ug/kg	800	100	1
2-Hexanone	ND		ug/kg	800	94.	1
Bromochloromethane	ND		ug/kg	160	16.	1
1,2-Dibromoethane	ND		ug/kg	80	22.	1
n-Butylbenzene	840		ug/kg	80	13.	1
sec-Butylbenzene	180		ug/kg	80	12.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	240	79.	1
Isopropylbenzene	250		ug/kg	80	8.7	1
p-Isopropyltoluene	94		ug/kg	80	8.7	1
n-Propylbenzene	920		ug/kg	80	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	160	26.	1
1,2,4-Trichlorobenzene	ND		ug/kg	160	22.	1
1,3,5-Trimethylbenzene	1900		ug/kg	160	15.	1
1,2,4-Trimethylbenzene	8100		ug/kg	160	26.	1
Methyl Acetate	ND		ug/kg	320	76.	1
Cyclohexane	1100		ug/kg	800	43.	1
1,4-Dioxane	ND		ug/kg	8000	2800	1
Freon-113	ND		ug/kg	320	55.	1
Methyl cyclohexane	790		ug/kg	320	48.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-02 Date Collected: 08/20/18 15:33

Client ID: PUMP ISLAND SW-2 5.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	23700	J	ug/kg			1
Unknown Benzene	1650	J	ug/kg			1
Heptane, 3-methyl-	2130	NJ	ug/kg			1
Unknown Alkane	1200	J	ug/kg			1
Unknown Aromatic	1340	J	ug/kg			1
Unknown Benzene	2030	J	ug/kg			1
Hexane, 3-methyl-	1840	NJ	ug/kg			1
Octane	1550	NJ	ug/kg			1
Unknown Alkane	1170	J	ug/kg			1
Unknown Aromatic	1770	J	ug/kg			1
Unknown Benzene	1660	J	ug/kg			1
Benzene, 1-propenyl-	1320	NJ	ug/kg			1
Unknown Benzene	1670	J	ug/kg			1
Unknown Benzene	1450	J	ug/kg			1
Pentane, 2-methyl-	1160	NJ	ug/kg			1
Unknown Aromatic	1780	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-03
Client ID: PUMP ISLAND SW-3 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:45
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/22/18 14:12
Analyst: AD
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	260	120	1
1,1-Dichloroethane	ND		ug/kg	52	7.6	1
Chloroform	ND		ug/kg	78	7.3	1
Carbon tetrachloride	ND		ug/kg	52	12.	1
1,2-Dichloropropane	ND		ug/kg	52	6.5	1
Dibromochloromethane	ND		ug/kg	52	7.3	1
1,1,2-Trichloroethane	ND		ug/kg	52	14.	1
Tetrachloroethene	ND		ug/kg	26	10.	1
Chlorobenzene	ND		ug/kg	26	6.6	1
Trichlorofluoromethane	ND		ug/kg	210	36.	1
1,2-Dichloroethane	ND		ug/kg	52	13.	1
1,1,1-Trichloroethane	ND		ug/kg	26	8.7	1
Bromodichloromethane	ND		ug/kg	26	5.7	1
trans-1,3-Dichloropropene	ND		ug/kg	52	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	26	8.3	1
Bromoform	ND		ug/kg	210	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	26	8.7	1
Benzene	16	J	ug/kg	26	8.7	1
Toluene	ND		ug/kg	52	28.	1
Ethylbenzene	490		ug/kg	52	7.4	1
Chloromethane	ND		ug/kg	210	49.	1
Bromomethane	ND		ug/kg	100	30.	1
Vinyl chloride	ND		ug/kg	52	18.	1
Chloroethane	ND		ug/kg	100	24.	1
1,1-Dichloroethene	ND		ug/kg	52	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	78	7.2	1
Trichloroethene	ND		ug/kg	26	7.2	1
1,2-Dichlorobenzene	ND		ug/kg	100	7.5	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-03 Date Collected: 08/20/18 15:45

Client ID: PUMP ISLAND SW-3 4.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	100	7.7	1
1,4-Dichlorobenzene	ND		ug/kg	100	8.9	1
Methyl tert butyl ether	ND		ug/kg	100	10.	1
p/m-Xylene	680		ug/kg	100	29.	1
o-Xylene	ND		ug/kg	52	15.	1
cis-1,2-Dichloroethene	ND		ug/kg	52	9.2	1
Styrene	ND		ug/kg	52	10.	1
Dichlorodifluoromethane	ND		ug/kg	520	48.	1
Acetone	ND		ug/kg	520	250	1
Carbon disulfide	ND		ug/kg	520	240	1
2-Butanone	ND		ug/kg	520	120	1
4-Methyl-2-pentanone	ND		ug/kg	520	67.	1
2-Hexanone	ND		ug/kg	520	62.	1
Bromochloromethane	ND		ug/kg	100	11.	1
1,2-Dibromoethane	ND		ug/kg	52	15.	1
n-Butylbenzene	650		ug/kg	52	8.7	1
sec-Butylbenzene	160		ug/kg	52	7.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	52.	1
Isopropylbenzene	160		ug/kg	52	5.7	1
p-Isopropyltoluene	96		ug/kg	52	5.7	1
n-Propylbenzene	630		ug/kg	52	8.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	100	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.	1
1,3,5-Trimethylbenzene	660		ug/kg	100	10.	1
1,2,4-Trimethylbenzene	4600		ug/kg	100	17.	1
Methyl Acetate	ND		ug/kg	210	50.	1
Cyclohexane	420	J	ug/kg	520	28.	1
1,4-Dioxane	ND		ug/kg	5200	1800	1
Freon-113	ND		ug/kg	210	36.	1
Methyl cyclohexane	450		ug/kg	210	32.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-03 Date Collected: 08/20/18 15:45

Client ID: PUMP ISLAND SW-3 4.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	15600	J	ug/kg			1
Unknown Alkane	896	J	ug/kg			1
Unknown Alkane	845	J	ug/kg			1
Unknown Benzene	959	J	ug/kg			1
Unknown Alkane	1120	J	ug/kg			1
Unknown Aromatic	820	J	ug/kg			1
Unknown Aromatic	1540	J	ug/kg			1
Unknown Benzene	878	J	ug/kg			1
Octane	839	NJ	ug/kg			1
Heptane, 2-methyl-	847	NJ	ug/kg			1
Unknown Benzene	1620	J	ug/kg			1
Unknown Aromatic	785	J	ug/kg			1
Unknown Benzene	1520	J	ug/kg			1
Hexane, 3-methyl-	810	NJ	ug/kg			1
Heptane, 3-methyl-	1400	NJ	ug/kg			1
Octane, 3-methyl-	708	NJ	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	89		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-04
Client ID: PUMP ISLAND SW-4 5.0'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:56
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/22/18 13:20
Analyst: AD
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.5	J	ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.13	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	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.93	0.50	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.8	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	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-04 Date Collected: 08/20/18 15:56

Client ID: PUMP ISLAND SW-4 5.0' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	0.40	J	ug/kg	1.8	0.19	1
p/m-Xylene	ND		ug/kg	1.8	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	47		ug/kg	9.3	4.5	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.0	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	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
n-Butylbenzene	0.30	J	ug/kg	0.93	0.15	1
sec-Butylbenzene	0.44	J	ug/kg	0.93	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Isopropylbenzene	1.7		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
n-Propylbenzene	6.1		ug/kg	0.93	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
Methyl Acetate	ND		ug/kg	3.7	0.88	1
Cyclohexane	ND		ug/kg	9.3	0.50	1
1,4-Dioxane	ND		ug/kg	93	32.	1
Freon-113	ND		ug/kg	3.7	0.64	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	95		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-05 Date Collected: 08/20/18 14:10
Client ID: PUMP ISLAND B-1 7.5' Date Received: 08/20/18
Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/22/18 14:39
Analyst: AD
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	260	120	1
1,1-Dichloroethane	ND		ug/kg	51	7.4	1
Chloroform	ND		ug/kg	77	7.2	1
Carbon tetrachloride	ND		ug/kg	51	12.	1
1,2-Dichloropropane	ND		ug/kg	51	6.4	1
Dibromochloromethane	ND		ug/kg	51	7.2	1
1,1,2-Trichloroethane	ND		ug/kg	51	14.	1
Tetrachloroethene	ND		ug/kg	26	10.	1
Chlorobenzene	ND		ug/kg	26	6.5	1
Trichlorofluoromethane	ND		ug/kg	200	36.	1
1,2-Dichloroethane	ND		ug/kg	51	13.	1
1,1,1-Trichloroethane	ND		ug/kg	26	8.5	1
Bromodichloromethane	ND		ug/kg	26	5.6	1
trans-1,3-Dichloropropene	ND		ug/kg	51	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	26	8.1	1
Bromoform	ND		ug/kg	200	12.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	26	8.5	1
Benzene	69		ug/kg	26	8.5	1
Toluene	ND		ug/kg	51	28.	1
Ethylbenzene	200		ug/kg	51	7.2	1
Chloromethane	ND		ug/kg	200	48.	1
Bromomethane	ND		ug/kg	100	30.	1
Vinyl chloride	ND		ug/kg	51	17.	1
Chloroethane	ND		ug/kg	100	23.	1
1,1-Dichloroethene	ND		ug/kg	51	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	77	7.0	1
Trichloroethene	ND		ug/kg	26	7.0	1
1,2-Dichlorobenzene	ND		ug/kg	100	7.4	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-05 Date Collected: 08/20/18 14:10

Client ID: PUMP ISLAND B-1 7.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	100	7.6	1
1,4-Dichlorobenzene	ND		ug/kg	100	8.7	1
Methyl tert butyl ether	ND		ug/kg	100	10.	1
p/m-Xylene	390		ug/kg	100	29.	1
o-Xylene	75		ug/kg	51	15.	1
cis-1,2-Dichloroethene	ND		ug/kg	51	9.0	1
Styrene	ND		ug/kg	51	10.	1
Dichlorodifluoromethane	ND		ug/kg	510	47.	1
Acetone	ND		ug/kg	510	250	1
Carbon disulfide	ND		ug/kg	510	230	1
2-Butanone	ND		ug/kg	510	110	1
4-Methyl-2-pentanone	ND		ug/kg	510	65.	1
2-Hexanone	ND		ug/kg	510	60.	1
Bromochloromethane	ND		ug/kg	100	10.	1
1,2-Dibromoethane	ND		ug/kg	51	14.	1
n-Butylbenzene	240		ug/kg	51	8.5	1
sec-Butylbenzene	84		ug/kg	51	7.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	51.	1
Isopropylbenzene	100		ug/kg	51	5.6	1
p-Isopropyltoluene	49	J	ug/kg	51	5.6	1
n-Propylbenzene	380		ug/kg	51	8.7	1
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.	1
1,3,5-Trimethylbenzene	490		ug/kg	100	9.9	1
1,2,4-Trimethylbenzene	1900		ug/kg	100	17.	1
Methyl Acetate	ND		ug/kg	200	49.	1
Cyclohexane	270	J	ug/kg	510	28.	1
1,4-Dioxane	ND		ug/kg	5100	1800	1
Freon-113	ND		ug/kg	200	35.	1
Methyl cyclohexane	310		ug/kg	200	31.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	90		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/18 10:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1149361-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/18 10:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1149361-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/18 10:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1149361-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	91		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/18 10:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03,05 Batch: WG1149401-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/18 10:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03,05 Batch: WG1149401-5					
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.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
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
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
1,4-Dioxane	ND		ug/kg	5000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/18 10:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03,05 Batch: WG1149401-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1832711

Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1149361-3 WG1149361-4								
Methylene chloride	98		90		70-130	9		30
1,1-Dichloroethane	94		86		70-130	9		30
Chloroform	99		92		70-130	7		30
Carbon tetrachloride	110		96		70-130	14		30
1,2-Dichloropropane	102		99		70-130	3		30
Dibromochloromethane	103		81		70-130	24		30
1,1,2-Trichloroethane	104		82		70-130	24		30
Tetrachloroethene	111		82		70-130	30		30
Chlorobenzene	102		96		70-130	6		30
Trichlorofluoromethane	106		74		70-139	**36**	Q	30
1,2-Dichloroethane	98		98		70-130	0		30
1,1,1-Trichloroethane	103		93		70-130	10		30
Bromodichloromethane	104		103		70-130	1		30
trans-1,3-Dichloropropene	108		82		70-130	27		30
cis-1,3-Dichloropropene	123		111		70-130	10		30
Bromoform	98		98		70-130	0		30
1,1,2,2-Tetrachloroethane	94		96		70-130	2		30
Benzene	101		92		70-130	9		30
Toluene	85		77		70-130	10		30
Ethylbenzene	106		97		70-130	9		30
Chloromethane	99		82		52-130	19		30
Bromomethane	88		62		57-147	**35**	Q	30
Vinyl chloride	88		**59**	Q	67-130	**39**	Q	30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1149361-3 WG1149361-4								
Chloroethane	83		61		50-151	**31**	Q	30
1,1-Dichloroethene	107		94		65-135	13		30
trans-1,2-Dichloroethene	106		93		70-130	13		30
Trichloroethene	110		99		70-130	11		30
1,2-Dichlorobenzene	100		98		70-130	2		30
1,3-Dichlorobenzene	102		96		70-130	6		30
1,4-Dichlorobenzene	101		96		70-130	5		30
Methyl tert butyl ether	101		99		66-130	2		30
p/m-Xylene	107		98		70-130	9		30
o-Xylene	106		99		70-130	7		30
cis-1,2-Dichloroethene	104		96		70-130	8		30
Styrene	86		81		70-130	6		30
Dichlorodifluoromethane	**157**	Q	94		30-146	**50**	Q	30
Acetone	75		97		54-140	26		30
Carbon disulfide	90		78		59-130	14		30
2-Butanone	87		83		70-130	5		30
4-Methyl-2-pentanone	97		73		70-130	28		30
2-Hexanone	90		96		70-130	6		30
Bromochloromethane	110		98		70-130	12		30
1,2-Dibromoethane	108		96		70-130	12		30
n-Butylbenzene	108		97		70-130	11		30
sec-Butylbenzene	108		98		70-130	10		30
1,2-Dibromo-3-chloropropane	94		96		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1832711

Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1149361-3 WG1149361-4								
Isopropylbenzene	108		97		70-130	11		30
p-Isopropyltoluene	111		101		70-130	9		30
n-Propylbenzene	103		94		70-130	9		30
1,2,3-Trichlorobenzene	107		105		70-130	2		30
1,2,4-Trichlorobenzene	112		106		70-130	6		30
1,3,5-Trimethylbenzene	106		97		70-130	9		30
1,2,4-Trimethylbenzene	110		102		70-130	8		30
Methyl Acetate	84		89		51-146	6		30
Cyclohexane	94		85		59-142	10		30
1,4-Dioxane	102		107		65-136	5		30
Freon-113	110		95		50-139	15		30
Methyl cyclohexane	116		102		70-130	13		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		94		70-130
Toluene-d8	82		82		70-130
4-Bromofluorobenzene	105		104		70-130
Dibromofluoromethane	96		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1149401-3 WG1149401-4								
Methylene chloride	98		90		70-130	9		30
1,1-Dichloroethane	94		86		70-130	9		30
Chloroform	99		92		70-130	7		30
Carbon tetrachloride	110		96		70-130	14		30
1,2-Dichloropropane	102		99		70-130	3		30
Dibromochloromethane	103		81		70-130	24		30
1,1,2-Trichloroethane	104		82		70-130	24		30
Tetrachloroethene	111		82		70-130	30		30
Chlorobenzene	102		96		70-130	6		30
Trichlorofluoromethane	106		74		70-139	**36**	Q	30
1,2-Dichloroethane	98		98		70-130	0		30
1,1,1-Trichloroethane	103		93		70-130	10		30
Bromodichloromethane	104		103		70-130	1		30
trans-1,3-Dichloropropene	108		82		70-130	27		30
cis-1,3-Dichloropropene	123		111		70-130	10		30
Bromoform	98		98		70-130	0		30
1,1,2,2-Tetrachloroethane	94		96		70-130	2		30
Benzene	101		92		70-130	9		30
Toluene	85		77		70-130	10		30
Ethylbenzene	106		97		70-130	9		30
Chloromethane	99		82		52-130	19		30
Bromomethane	88		62		57-147	**35**	Q	30
Vinyl chloride	88		**59**	Q	67-130	**39**	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1832711

Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1149401-3 WG1149401-4								
Chloroethane	83		61		50-151	**31**	Q	30
1,1-Dichloroethene	107		94		65-135	13		30
trans-1,2-Dichloroethene	106		93		70-130	13		30
Trichloroethene	110		99		70-130	11		30
1,2-Dichlorobenzene	100		98		70-130	2		30
1,3-Dichlorobenzene	102		96		70-130	6		30
1,4-Dichlorobenzene	101		96		70-130	5		30
Methyl tert butyl ether	101		99		66-130	2		30
p/m-Xylene	107		98		70-130	9		30
o-Xylene	106		99		70-130	7		30
cis-1,2-Dichloroethene	104		96		70-130	8		30
Styrene	86		81		70-130	6		30
Dichlorodifluoromethane	**157**	Q	94		30-146	**50**	Q	30
Acetone	75		97		54-140	26		30
Carbon disulfide	90		78		59-130	14		30
2-Butanone	87		83		70-130	5		30
4-Methyl-2-pentanone	97		73		70-130	28		30
2-Hexanone	90		96		70-130	6		30
Bromochloromethane	110		98		70-130	12		30
1,2-Dibromoethane	108		96		70-130	12		30
n-Butylbenzene	108		97		70-130	11		30
sec-Butylbenzene	108		98		70-130	10		30
1,2-Dibromo-3-chloropropane	94		96		68-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1149401-3 WG1149401-4								
Isopropylbenzene	108		97		70-130	11		30
p-Isopropyltoluene	111		101		70-130	9		30
n-Propylbenzene	103		94		70-130	9		30
1,2,3-Trichlorobenzene	107		105		70-130	2		30
1,2,4-Trichlorobenzene	112		106		70-130	6		30
1,3,5-Trimethylbenzene	106		97		70-130	9		30
1,2,4-Trimethylbenzene	110		102		70-130	8		30
Methyl Acetate	84		89		51-146	6		30
Cyclohexane	94		85		59-142	10		30
1,4-Dioxane	102		107		65-136	5		30
Freon-113	110		95		50-139	15		30
Methyl cyclohexane	116		102		70-130	13		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		94		70-130
Toluene-d8	82		82		70-130
4-Bromofluorobenzene	105		104		70-130
Dibromofluoromethane	96		94		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1832711
Project Number: 0437-017-001-005-002
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-01
Client ID: PUMP ISLAND SW-1 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:15
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/21/18 17:53
Analyst: RC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 08/21/18 05:30

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
Fluoranthene	40	J	ug/kg	120	24.	1
Naphthalene	ND		ug/kg	200	25.	1
Benzo(a)anthracene	27	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	36	J	ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	25	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	30	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	29	J	ug/kg	160	29.	1
Pyrene	36	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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	300	32.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-01 Date Collected: 08/20/18 15:15

Client ID: PUMP ISLAND SW-1 4.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	113		25-120
Phenol-d6	**130**	Q	10-120
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	81		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-02
Client ID: PUMP ISLAND SW-2 5.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:33
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/21/18 18:18
Analyst: RC
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 08/21/18 05:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	ND		ug/kg	130	25.	1
Naphthalene	1700		ug/kg	220	27.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	30.	1
Pyrene	ND		ug/kg	130	22.	1
Dibenzofuran	ND		ug/kg	220	21.	1
Pentachlorophenol	ND		ug/kg	180	48.	1
Phenol	170	J	ug/kg	220	33.	1
2-Methylphenol	110	J	ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	34.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-02 Date Collected: 08/20/18 15:33

Client ID: PUMP ISLAND SW-2 5.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	59200	J	ug/kg			1
Unknown Benzene	1220	J	ug/kg			1
Unknown Benzene	3670	J	ug/kg			1
Unknown Benzene	2170	J	ug/kg			1
Unknown	3910	J	ug/kg			1
Unknown Benzene	3350	J	ug/kg			1
Indane	1790	NJ	ug/kg			1
Unknown Benzene	13200	J	ug/kg			1
Unknown	11200	J	ug/kg			1
Unknown Benzene	1610	J	ug/kg			1
Ethylbenzene	2160	NJ	ug/kg			1
Unknown Benzene	3560	J	ug/kg			1
Unknown 1H-Indene	1360	J	ug/kg			1
Unknown	1520	J	ug/kg			1
Unknown Benzene	6850	J	ug/kg			1
Unknown Benzene	1640	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	27		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	28		10-136
4-Terphenyl-d14	47		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-03
Client ID: PUMP ISLAND SW-3 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:45
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/21/18 18:44
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/21/18 05:30

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	230		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-03 Date Collected: 08/20/18 15:45

Client ID: PUMP ISLAND SW-3 4.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	6750	J	ug/kg			1
Unknown	235	J	ug/kg			1
Unknown	440	J	ug/kg			1
Unknown Benzene	367	J	ug/kg			1
Unknown Benzene	549	J	ug/kg			1
Unknown	842	J	ug/kg			1
Unknown Benzene	247	J	ug/kg			1
Unknown Benzene	292	J	ug/kg			1
Unknown Benzene	1730	J	ug/kg			1
Unknown	275	J	ug/kg			1
Unknown Benzene	220	J	ug/kg			1
Unknown	300	J	ug/kg			1
Unknown Benzene	243	J	ug/kg			1
Unknown Benzene	341	J	ug/kg			1
Unknown Benzene	263	J	ug/kg			1
Unknown	401	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	27		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	26		10-136
4-Terphenyl-d14	48		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-04
Client ID: PUMP ISLAND SW-4 5.0'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:56
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/21/18 19:09
Analyst: RC
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/21/18 05:30

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-04 Date Collected: 08/20/18 15:56

Client ID: PUMP ISLAND SW-4 5.0' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**133**	Q	25-120
Phenol-d6	**143**	Q	10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	120		30-120
2,4,6-Tribromophenol	57		10-136
4-Terphenyl-d14	98		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1832711
Project Number: 0437-017-001-005-002
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-05
Client ID: PUMP ISLAND B-1 7.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 14:10
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/21/18 19:34
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/21/18 05:30

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
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	93	J	ug/kg	180	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-05 Date Collected: 08/20/18 14:10

Client ID: PUMP ISLAND B-1 7.5' Date Received: 08/20/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	35		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	35		10-136
4-Terphenyl-d14	59		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/21/18 10:11
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/20/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1148601-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 1585 HERTEL AVE. **Lab Number:** L1832711

Project Number: 0437-017-001-005-002 **Report Date:** 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/21/18 10:11
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/20/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1148601-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	72		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1832711

Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1148601-2 WG1148601-3								
Acenaphthene	74		70		31-137	6		50
Hexachlorobenzene	74		69		40-140	7		50
Fluoranthene	74		72		40-140	3		50
Naphthalene	68		68		40-140	0		50
Benzo(a)anthracene	74		70		40-140	6		50
Benzo(a)pyrene	81		72		40-140	12		50
Benzo(b)fluoranthene	78		70		40-140	11		50
Benzo(k)fluoranthene	76		68		40-140	11		50
Chrysene	76		72		40-140	5		50
Acenaphthylene	70		71		40-140	1		50
Anthracene	75		73		40-140	3		50
Benzo(ghi)perylene	78		71		40-140	9		50
Fluorene	75		72		40-140	4		50
Phenanthrene	75		71		40-140	5		50
Dibenzo(a,h)anthracene	78		70		40-140	11		50
Indeno(1,2,3-cd)pyrene	78		71		40-140	9		50
Pyrene	74		70		35-142	6		50
Dibenzofuran	72		69		40-140	4		50
Pentachlorophenol	68		67		17-109	1		50
Phenol	72		73		26-90	1		50
2-Methylphenol	73		74		30-130.	1		50
3-Methylphenol/4-Methylphenol	80		82		30-130	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1832711

Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1148601-2 WG1148601-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		74		25-120
Phenol-d6	74		77		10-120
Nitrobenzene-d5	73		75		23-120
2-Fluorobiphenyl	68		68		30-120
2,4,6-Tribromophenol	74		72		10-136
4-Terphenyl-d14	69		65		18-120

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-01
Client ID: PUMP ISLAND SW-1 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:15
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	08/21/18 10:15	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-02
Client ID: PUMP ISLAND SW-2 5.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:33
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.8		%	0.100	NA	1	-	08/21/18 10:15	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-03
Client ID: PUMP ISLAND SW-3 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:45
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	08/21/18 10:15	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-04
Client ID: PUMP ISLAND SW-4 5.0'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 15:56
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	08/21/18 10:15	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1832711-05
Client ID: PUMP ISLAND B-1 7.5'
Sample Location: BUFFALO, NY

Date Collected: 08/20/18 14:10
Date Received: 08/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	08/21/18 10:15	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1832711

Report Date: 08/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1148746-1 QC Sample: L1832705-01 Client ID: DUP Sample						
Solids, Total	84.5	83.9	%	1		20

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

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(*)
L1832711-01A	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-01B	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-01C	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-01D	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1832711-01X	Vial MeOH preserved split	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-01Y	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)
L1832711-01Z	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)
L1832711-02A	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-02B	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-02C	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-02D	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1832711-02X	Vial MeOH preserved split	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-02Y	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)
L1832711-02Z	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)
L1832711-03A	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-03B	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-03C	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-03D	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1832711-03X	Vial MeOH preserved split	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-03Y	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)
L1832711-03Z	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)
L1832711-04A	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-04B	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1832711-04C	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-04D	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1832711-04X	Vial MeOH preserved split	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-04Y	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)
L1832711-04Z	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)
L1832711-05A	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-05B	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-05C	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-05D	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1832711-05X	Vial MeOH preserved split	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1832711-05Y	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)
L1832711-05Z	Vial Water preserved split	A	NA		3.1	Y	Absent	21-AUG-18 10:22	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1832711
Project Number:	0437-017-001-005-002	**Report Date:**	08/23/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1832711
Project Number:	0437-017-001-005-002	**Report Date:**	08/23/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1832711
Project Number:	0437-017-001-005-002	**Report Date:**	08/23/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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: 8/21/18

ALPHA Job #: L1932711

Client Information
Client: Benchmark Env
Address: 255 Hardtner Dr Ste 2
Buffalo NY 14221
Phone: (716) 818-8358
Fax: 716) 856-0583
Email: BSchenk@Tnkellc.com

Project Information
Project Name: 1585 Hertel Ave
Project Location: Buffalo NY
Project # 0437-017-001.005-002
(Use Project name as Project #) ☒
Project Manager: Chris Reiss
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3 Day

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Cat B

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
Part 375 SVOC
CP-51+TCL SVOC

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	Part 375 SVOC	CP-51+TCL SVOC	Sample Specific Comments	Total Bottle
32711-01	Pump Island SW-1 4.5'	8/20/18	1515	Soil	TAB	X	X		4
-02	Pump Island SW-2 5.5'	"	1533	Soil	"	X	X	add TICs	4
-03	Pump Island SW-3 4.5	"	1545	Soil	"	X	X	add TICs	
-04	Pump Island SW-4 5.0	"	1556	Soil	"	X	X		
-05	Pump Island B-1 7.5	"	1410	Soil	"	X	X		

Container Type: A E
Preservative: 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]	8/20/18	Audrey Tilley ABC	8/20/18 16:30
Audrey Tilley ABC	8/20/18 16:45	[signature]	8/21/18 9:05

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:	L1832892
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL
Project Number:	0437-017-001-006-005
Report Date:	08/24/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL
Project Number: 0437-017-001-006-005

Lab Number: L1832892
Report Date: 08/24/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832892-01	UST-2 SW-1 3.0'	SOIL	BUFFALO, NY	08/21/18 15:55	08/21/18
L1832892-02	UST-2 B-1 4.5'	SOIL	BUFFALO, NY	08/21/18 16:07	08/21/18

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005

Lab Number: L1832892
Report Date: 08/24/18

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:	1585 HERTEL	**Lab Number:**	L1832892
Project Number:	0437-017-001-006-005	**Report Date:**	08/24/18

Case Narrative (continued)

Report Submission

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

Sample Receipt

L1832892-01: The sample identified as "UST-2 SW-2 3.0"' on the chain of custody was identified as "UST-2 SW-1 3.0"' on the container label. At the client's request, the sample is reported as "UST-2 SW-1 3.0"'.

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

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 08/24/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005
Lab Number: L1832892
Report Date: 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-01
Client ID: UST-2 SW-1 3.0'
Sample Location: BUFFALO, NY
Date Collected: 08/21/18 15:55
Date Received: 08/21/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/23/18 02:04
Analyst: NLK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: 1585 HERTEL **Lab Number:** L1832892

Project Number: 0437-017-001-006-005 **Report Date:** 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-01 Date Collected: 08/21/18 15:55

Client ID: UST-2 SW-1 3.0' Date Received: 08/21/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	1.6	J	ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	32		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	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	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	100	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005
Lab Number: L1832892
Report Date: 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-02
Client ID: UST-2 B-1 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/21/18 16:07
Date Received: 08/21/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/23/18 02:31
Analyst: NLK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.13	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	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	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	0.46	0.16	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.93	0.50	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	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1

Project Name: 1585 HERTEL **Lab Number:** L1832892

Project Number: 0437-017-001-006-005 **Report Date:** 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-02 Date Collected: 08/21/18 16:07

Client ID: UST-2 B-1 4.5' Date Received: 08/21/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	6.8		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	6.2	J	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
n-Butylbenzene	ND		ug/kg	0.93	0.16	1
sec-Butylbenzene	ND		ug/kg	0.93	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
n-Propylbenzene	ND		ug/kg	0.93	0.16	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
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	0.88	1
Cyclohexane	ND		ug/kg	9.3	0.51	1
1,4-Dioxane	ND		ug/kg	93	33.	1
Freon-113	ND		ug/kg	3.7	0.64	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	103		70-130

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005
Lab Number: L1832892
Report Date: 08/24/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/18 17:44
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1149695-5					
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	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: 1585 HERTEL
Project Number: 0437-017-001-006-005
Lab Number: L1832892
Report Date: 08/24/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/18 17:44
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1149695-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005
Lab Number: L1832892
Report Date: 08/24/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/18 17:44
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1149695-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-006-005

Lab Number: L1832892

Report Date: 08/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1149695-3 WG1149695-4								
Methylene chloride	86		81		70-130	6		30
1,1-Dichloroethane	88		84		70-130	5		30
Chloroform	86		83		70-130	4		30
Carbon tetrachloride	90		85		70-130	6		30
1,2-Dichloropropane	88		84		70-130	5		30
Dibromochloromethane	100		94		70-130	6		30
1,1,2-Trichloroethane	90		86		70-130	5		30
Tetrachloroethene	103		95		70-130	8		30
Chlorobenzene	93		89		70-130	4		30
Trichlorofluoromethane	70		**66**	Q	70-139	6		30
1,2-Dichloroethane	92		89		70-130	3		30
1,1,1-Trichloroethane	87		82		70-130	6		30
Bromodichloromethane	88		85		70-130	3		30
trans-1,3-Dichloropropene	93		88		70-130	6		30
cis-1,3-Dichloropropene	88		85		70-130	3		30
Bromoform	106		102		70-130	4		30
1,1,2,2-Tetrachloroethane	87		84		70-130	4		30
Benzene	83		79		70-130	5		30
Toluene	91		86		70-130	6		30
Ethylbenzene	90		85		70-130	6		30
Chloromethane	107		105		52-130	2		30
Bromomethane	77		72		57-147	7		30
Vinyl chloride	70		**66**	Q	67-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-006-005

Lab Number: L1832892

Report Date: 08/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1149695-3 WG1149695-4								
Chloroethane	58		50		50-151	15		30
1,1-Dichloroethene	91		85		65-135	7		30
trans-1,2-Dichloroethene	84		79		70-130	6		30
Trichloroethene	87		82		70-130	6		30
1,2-Dichlorobenzene	99		96		70-130	3		30
1,3-Dichlorobenzene	100		95		70-130	5		30
1,4-Dichlorobenzene	99		93		70-130	6		30
Methyl tert butyl ether	84		80		66-130	5		30
p/m-Xylene	90		84		70-130	7		30
o-Xylene	89		84		70-130	6		30
cis-1,2-Dichloroethene	87		82		70-130	6		30
Styrene	91		87		70-130	4		30
Dichlorodifluoromethane	76		73		30-146	4		30
Acetone	122		115		54-140	6		30
Carbon disulfide	70		61		59-130	14		30
2-Butanone	110		88		70-130	22		30
4-Methyl-2-pentanone	94		90		70-130	4		30
2-Hexanone	108		103		70-130	5		30
Bromochloromethane	97		92		70-130	5		30
1,2-Dibromoethane	95		90		70-130	5		30
n-Butylbenzene	87		83		70-130	5		30
sec-Butylbenzene	90		86		70-130	5		30
1,2-Dibromo-3-chloropropane	92		91		68-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005

Lab Number: L1832892
Report Date: 08/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1149695-3 WG1149695-4								
Isopropylbenzene	90		86		70-130	5		30
p-Isopropyltoluene	92		89		70-130	3		30
n-Propylbenzene	87		83		70-130	5		30
1,2,3-Trichlorobenzene	100		97		70-130	3		30
1,2,4-Trichlorobenzene	101		97		70-130	4		30
1,3,5-Trimethylbenzene	91		86		70-130	6		30
1,2,4-Trimethylbenzene	91		88		70-130	3		30
Methyl Acetate	101		98		51-146	3		30
Cyclohexane	92		86		59-142	7		30
1,4-Dioxane	79		79		65-136	0		30
Freon-113	88		80		50-139	10		30
Methyl cyclohexane	78		73		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	87		88		70-130
Dibromofluoromethane	93		93		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005
Lab Number: L1832892
Report Date: 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-01
Client ID: UST-2 SW-1 3.0'
Sample Location: BUFFALO, NY

Date Collected: 08/21/18 15:55
Date Received: 08/21/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/22/18 21:31
Analyst: RC
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 08/22/18 13:16

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	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	43.	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

Project Name: 1585 HERTEL
Lab Number: L1832892
Project Number: 0437-017-001-006-005
Report Date: 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-01
Client ID: UST-2 SW-1 3.0'
Sample Location: BUFFALO, NY
Date Collected: 08/21/18 15:55
Date Received: 08/21/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	60		18-120

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005
Lab Number: L1832892
Report Date: 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-02
Client ID: UST-2 B-1 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/21/18 16:07
Date Received: 08/21/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/22/18 21:56
Analyst: RC
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 08/22/18 13:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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

Project Name: 1585 HERTEL **Lab Number:** L1832892

Project Number: 0437-017-001-006-005 **Report Date:** 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-02 Date Collected: 08/21/18 16:07

Client ID: UST-2 B-1 4.5' Date Received: 08/21/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	62		18-120

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005
Lab Number: L1832892
Report Date: 08/24/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/22/18 23:50
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/22/18 13:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1149369-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005
Lab Number: L1832892
Report Date: 08/24/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/22/18 23:50
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/22/18 13:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1149369-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	89		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-006-005

Lab Number: L1832892

Report Date: 08/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1149369-2 WG1149369-3								
Acenaphthene	82		88		31-137	7		50
Hexachlorobenzene	84		92		40-140	9		50
Fluoranthene	85		91		40-140	7		50
Naphthalene	82		81		40-140	1		50
Benzo(a)anthracene	80		86		40-140	7		50
Benzo(a)pyrene	80		89		40-140	11		50
Benzo(b)fluoranthene	84		92		40-140	9		50
Benzo(k)fluoranthene	80		89		40-140	11		50
Chrysene	83		89		40-140	7		50
Acenaphthylene	84		87		40-140	4		50
Anthracene	84		89		40-140	6		50
Benzo(ghi)perylene	82		90		40-140	9		50
Fluorene	82		91		40-140	10		50
Phenanthrene	84		88		40-140	5		50
Dibenzo(a,h)anthracene	83		89		40-140	7		50
Indeno(1,2,3-cd)pyrene	80		90		40-140	12		50
Pyrene	84		89		35-142	6		50
Dibenzofuran	80		90		40-140	12		50
Pentachlorophenol	72		83		17-109	14		50
Phenol	90		85		26-90	6		50
2-Methylphenol	93		84		30-130.	10		50
3-Methylphenol/4-Methylphenol	88		85		30-130	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-006-005

Lab Number: L1832892

Report Date: 08/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1149369-2 WG1149369-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		84		25-120
Phenol-d6	93		85		10-120
Nitrobenzene-d5	87		81		23-120
2-Fluorobiphenyl	86		83		30-120
2,4,6-Tribromophenol	86		96		10-136
4-Terphenyl-d14	85		87		18-120

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005

Lab Number: L1832892
Report Date: 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-01
Client ID: UST-2 SW-1 3.0'
Sample Location: BUFFALO, NY

Date Collected: 08/21/18 15:55
Date Received: 08/21/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	08/22/18 04:50	121,2540G	FN

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005

Lab Number: L1832892
Report Date: 08/24/18

SAMPLE RESULTS

Lab ID: L1832892-02
Client ID: UST-2 B-1 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/21/18 16:07
Date Received: 08/21/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	08/22/18 04:50	121,2540G	FN

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-006-005

Lab Number: L1832892

Report Date: 08/24/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1149112-1 QC Sample: L1832848-02 Client ID: DUP Sample						
Solids, Total	89.7	91.4	%	2		20

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005

Lab Number: L1832892
Report Date: 08/24/18

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(*)
L1832892-01A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1832892-01B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1832892-01C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1832892-01D	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TS(7)
L1832892-01X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1832892-01Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-AUG-18 07:57	NYTCL-8260HLW-R2(14)
L1832892-01Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-AUG-18 07:57	NYTCL-8260HLW-R2(14)
L1832892-02A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1832892-02B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1832892-02C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1832892-02D	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TS(7)
L1832892-02X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1832892-02Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-AUG-18 07:57	NYTCL-8260HLW-R2(14)
L1832892-02Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-AUG-18 07:57	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL	**Lab Number:**	L1832892
Project Number:	0437-017-001-006-005	**Report Date:**	08/24/18

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).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL	**Lab Number:**	L1832892
Project Number:	0437-017-001-006-005	**Report Date:**	08/24/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL	**Lab Number:**	L1832892
Project Number:	0437-017-001-006-005	**Report Date:**	08/24/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 8/22/18

ALPHA Job #: L1832892

Client Information

Client: Benchmark Eng
Address: 255 Hamburg Turnpike Suite 300 Lackawanna NY
Phone: 716 818-8357
Fax: 856 0573
Email: JBrandt@Tnkllc.com

Project Information

Project Name: ~~Buffalo NY~~ 1585 Hunt
Project Location: Buffalo NY
Project # 0437-017-001-006-005
(Use Project name as Project #) [X]
Project Manager: Chris Bacon
ALPHAQuote #:

Turn-Around Time

Standard [ ] Due Date:
Rush (only if pre approved) [X] # of Days: 3

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:

Please specify Metals or TAL.

ANALYSIS

Part 375 SVOC
TCL+CP-51 for 8260

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	Part 375 SVOC	TCL+CP-51 for 8260	Sample Specific Comments	Total Bottle
32892-01	UST-2 SW-2 3.0'	8/21/18	1555	So.1	TAB	X	X		4
-02	UST-2 B-1 4.5'	"	1605	"	"	X	X		4

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	E
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	8/21/18 1625	AAL	8/21/18 16:25
AAL	8/21/18 16:50		8/22/18 10:00

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)

ANALYTICAL REPORT

Lab Number:	L1833416
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-005-002
Report Date:	08/28/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833416-01	MA-SW-1 (2.0)	SOIL	BUFFALO, NY	08/23/18 14:28	08/23/18
L1833416-02	MA-SW-2 (2.5)	SOIL	BUFFALO, NY	08/23/18 14:47	08/23/18
L1833416-03	PUMP ISLAND B-1R (7.5)	SOIL	BUFFALO, NY	08/23/18 15:34	08/23/18
L1833416-04	PUMP ISLAND B-2 (7.5)	SOIL	BUFFALO, NY	08/23/18 16:01	08/23/18
L1833416-05	BLIND DUP #1	SOIL	BUFFALO, NY	08/23/18 12:00	08/23/18
L1833416-06	PUMP ISLAND SW-5 (4.5)	SOIL	BUFFALO, NY	08/23/18 15:33	08/23/18
L1833416-07	PUMP ISLAND SW-6 (8.5)	SOIL	BUFFALO, NY	08/23/18 15:47	08/23/18
L1833416-08	UST-1 SW-3R (10-11')	SOIL	BUFFALO, NY	08/23/18 08:50	08/23/18
L1833416-09	UST-1 SW-4 (10-11')	SOIL	BUFFALO, NY	08/23/18 09:11	08/23/18
L1833416-10	UST-1 SW-5 (10-11')	SOIL	BUFFALO, NY	08/23/18 09:41	08/23/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Case Narrative

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

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

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

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

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

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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416
Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Case Narrative (continued)

Report Submission

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

Sample Receipt

L1833416-08: The Semivolatile Organics analysis was requested on the Chain of Custody, but a sample container not received. This was verified by the client.

Volatile Organics

L1833416-05: The sample has a concentration above the reporting limit for methylene chloride that is due to suspected laboratory contamination.

L1833416-06: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

The WG1150652-5 Method Blank, associated with L1833416-01, -02, and -04, has a concentration above the reporting limit for bromomethane. Since the samples were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

The WG1150656-5 Method Blank, associated with L1833416-03 and -06, has a concentration above the reporting limit for bromomethane. Since the samples were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Total Metals

L1833416-01 and -02: 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.

The WG1150516-3 MS recovery, performed on L1833416-01, is outside the acceptance criteria for mercury (152%). A post digestion spike was performed and was within acceptance criteria.

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

Authorized Signature:  Melissa Cripps

Title: Technical Director/Representative Date: 08/28/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-01
Client ID: MA-SW-1 (2.0)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 14:28
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/24/18 15:31
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	4.2	J	ug/kg	6.4	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	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	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.22	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-01 Date Collected: 08/23/18 14:28

Client ID: MA-SW-1 (2.0) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	27		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
Methyl Acetate	ND		ug/kg	5.2	1.2	1
Cyclohexane	ND		ug/kg	13	0.70	1
1,4-Dioxane	ND		ug/kg	130	45.	1
Freon-113	ND		ug/kg	5.2	0.89	1
Methyl cyclohexane	ND		ug/kg	5.2	0.78	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-02
Client ID: MA-SW-2 (2.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 14:47
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/24/18 15:57
Analyst: MKS
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.0	J	ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.12	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-02 Date Collected: 08/23/18 14:47

Client ID: MA-SW-2 (2.5) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.52	1
o-Xylene	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	12		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
Methyl Acetate	ND		ug/kg	3.7	0.88	1
Cyclohexane	ND		ug/kg	9.2	0.50	1
1,4-Dioxane	ND		ug/kg	92	32.	1
Freon-113	ND		ug/kg	3.7	0.64	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-03 D
Client ID: PUMP ISLAND B-1R (7.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 15:34
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/24/18 17:15
Analyst: MKS
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	540	250	2
1,1-Dichloroethane	ND		ug/kg	110	16.	2
Chloroform	ND		ug/kg	160	15.	2
Carbon tetrachloride	ND		ug/kg	110	25.	2
1,2-Dichloropropane	ND		ug/kg	110	14.	2
Dibromochloromethane	ND		ug/kg	110	15.	2
1,1,2-Trichloroethane	ND		ug/kg	110	29.	2
Tetrachloroethene	ND		ug/kg	54	21.	2
Chlorobenzene	ND		ug/kg	54	14.	2
Trichlorofluoromethane	ND		ug/kg	430	76.	2
1,2-Dichloroethane	ND		ug/kg	110	28.	2
1,1,1-Trichloroethane	ND		ug/kg	54	18.	2
Bromodichloromethane	ND		ug/kg	54	12.	2
trans-1,3-Dichloropropene	ND		ug/kg	110	30.	2
cis-1,3-Dichloropropene	ND		ug/kg	54	17.	2
Bromoform	ND		ug/kg	430	27.	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	54	18.	2
Benzene	21	J	ug/kg	54	18.	2
Toluene	ND		ug/kg	110	59.	2
Ethylbenzene	390		ug/kg	110	15.	2
Chloromethane	ND		ug/kg	430	100	2
Bromomethane	160	J	ug/kg	220	63.	2
Vinyl chloride	ND		ug/kg	110	36.	2
Chloroethane	ND		ug/kg	220	49.	2
1,1-Dichloroethene	ND		ug/kg	110	26.	2
trans-1,2-Dichloroethene	ND		ug/kg	160	15.	2
Trichloroethene	ND		ug/kg	54	15.	2
1,2-Dichlorobenzene	ND		ug/kg	220	16.	2

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-03 D
Client ID: PUMP ISLAND B-1R (7.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 15:34
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	220	16.	2
1,4-Dichlorobenzene	ND		ug/kg	220	18.	2
Methyl tert butyl ether	ND		ug/kg	220	22.	2
p/m-Xylene	1600		ug/kg	220	61.	2
o-Xylene	380		ug/kg	110	32.	2
cis-1,2-Dichloroethene	ND		ug/kg	110	19.	2
Styrene	ND		ug/kg	110	21.	2
Dichlorodifluoromethane	ND		ug/kg	1100	99.	2
Acetone	ND		ug/kg	1100	520	2
Carbon disulfide	ND		ug/kg	1100	490	2
2-Butanone	ND		ug/kg	1100	240	2
4-Methyl-2-pentanone	ND		ug/kg	1100	140	2
2-Hexanone	ND		ug/kg	1100	130	2
Bromochloromethane	ND		ug/kg	220	22.	2
1,2-Dibromoethane	ND		ug/kg	110	30.	2
n-Butylbenzene	1200		ug/kg	110	18.	2
sec-Butylbenzene	310		ug/kg	110	16.	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	320	110	2
Isopropylbenzene	150		ug/kg	110	12.	2
p-Isopropyltoluene	170		ug/kg	110	12.	2
n-Propylbenzene	770		ug/kg	110	18.	2
1,2,3-Trichlorobenzene	ND		ug/kg	220	35.	2
1,2,4-Trichlorobenzene	ND		ug/kg	220	30.	2
1,3,5-Trimethylbenzene	2200		ug/kg	220	21.	2
1,2,4-Trimethylbenzene	10000		ug/kg	220	36.	2
Methyl Acetate	ND		ug/kg	430	100	2
Cyclohexane	560	J	ug/kg	1100	59.	2
1,4-Dioxane	ND		ug/kg	11000	3800	2
Freon-113	ND		ug/kg	430	75.	2
Methyl cyclohexane	400	J	ug/kg	430	66.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	79		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-04
Client ID: PUMP ISLAND B-2 (7.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 16:01
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/24/18 16:23
Analyst: MKS
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.5	J	ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.12	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	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	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	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: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-04 Date Collected: 08/23/18 16:01

Client ID: PUMP ISLAND B-2 (7.5) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	44		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	10		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
n-Propylbenzene	ND		ug/kg	0.99	0.17	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	9.9	0.54	1
1,4-Dioxane	ND		ug/kg	99	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-04 Date Collected: 08/23/18 16:01

Client ID: PUMP ISLAND B-2 (7.5) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	10.8	J	ug/kg			1
Unknown	6.51	J	ug/kg			1
Unknown Siloxane	2.11	J	ug/kg			1
Unknown	2.19	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-05
Client ID: BLIND DUP #1
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 12:00
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/18 12:30
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	6.3		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		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	ND		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	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: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-05 Date Collected: 08/23/18 12:00

Client ID: BLIND DUP #1 Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	15		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	ND		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	31		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
Bromochloromethane	ND		ug/kg	2.2	0.22	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
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
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	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	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	110	38.	1
Freon-113	ND		ug/kg	4.4	0.75	1
Methyl cyclohexane	ND		ug/kg	4.4	0.66	1

Tentatively Identified Compounds				
Total TIC Compounds	2.73	J	ug/kg	1
Unknown	2.73	J	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-05 Date Collected: 08/23/18 12:00

Client ID: BLIND DUP #1 Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	108		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-06
Client ID: PUMP ISLAND SW-5 (4.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 15:33
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/24/18 21:09
Analyst: MKS
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	290	130	1
1,1-Dichloroethane	ND		ug/kg	59	8.5	1
Chloroform	ND		ug/kg	88	8.2	1
Carbon tetrachloride	ND		ug/kg	59	13.	1
1,2-Dichloropropane	ND		ug/kg	59	7.3	1
Dibromochloromethane	ND		ug/kg	59	8.2	1
1,1,2-Trichloroethane	ND		ug/kg	59	16.	1
Tetrachloroethene	ND		ug/kg	29	11.	1
Chlorobenzene	ND		ug/kg	29	7.4	1
Trichlorofluoromethane	ND		ug/kg	230	41.	1
1,2-Dichloroethane	ND		ug/kg	59	15.	1
1,1,1-Trichloroethane	ND		ug/kg	29	9.8	1
Bromodichloromethane	ND		ug/kg	29	6.4	1
trans-1,3-Dichloropropene	ND		ug/kg	59	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	29	9.3	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	29	9.7	1
Benzene	ND		ug/kg	29	9.7	1
Toluene	ND		ug/kg	59	32.	1
Ethylbenzene	ND		ug/kg	59	8.3	1
Chloromethane	ND		ug/kg	230	55.	1
Bromomethane	97	J	ug/kg	120	34.	1
Vinyl chloride	ND		ug/kg	59	20.	1
Chloroethane	ND		ug/kg	120	26.	1
1,1-Dichloroethene	ND		ug/kg	59	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	88	8.0	1
Trichloroethene	ND		ug/kg	29	8.0	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.4	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-06 Date Collected: 08/23/18 15:33

Client ID: PUMP ISLAND SW-5 (4.5) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	120	8.7	1
1,4-Dichlorobenzene	ND		ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	33.	1
o-Xylene	ND		ug/kg	59	17.	1
cis-1,2-Dichloroethene	ND		ug/kg	59	10.	1
Styrene	ND		ug/kg	59	11.	1
Dichlorodifluoromethane	ND		ug/kg	590	54.	1
Acetone	ND		ug/kg	590	280	1
Carbon disulfide	ND		ug/kg	590	270	1
2-Butanone	ND		ug/kg	590	130	1
4-Methyl-2-pentanone	ND		ug/kg	590	75.	1
2-Hexanone	ND		ug/kg	590	69.	1
Bromochloromethane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	59	16.	1
n-Butylbenzene	120		ug/kg	59	9.8	1
sec-Butylbenzene	88		ug/kg	59	8.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	58.	1
Isopropylbenzene	44	J	ug/kg	59	6.4	1
p-Isopropyltoluene	ND		ug/kg	59	6.4	1
n-Propylbenzene	130		ug/kg	59	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	20.	1
Methyl Acetate	240		ug/kg	230	56.	1
Cyclohexane	43	J	ug/kg	590	32.	1
1,4-Dioxane	ND		ug/kg	5900	2000	1
Freon-113	ND		ug/kg	230	41.	1
Methyl cyclohexane	72	J	ug/kg	230	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-07
Client ID: PUMP ISLAND SW-6 (8.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 15:47
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/18 12:56
Analyst: JC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	5.9	J	ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-07 Date Collected: 08/23/18 15:47

Client ID: PUMP ISLAND SW-6 (8.5) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	25		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	49		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
Methyl Acetate	ND		ug/kg	4.8	1.1	1
Cyclohexane	ND		ug/kg	12	0.66	1
1,4-Dioxane	ND		ug/kg	120	42.	1
Freon-113	ND		ug/kg	4.8	0.84	1
Methyl cyclohexane	ND		ug/kg	4.8	0.73	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	111		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-08
Client ID: UST-1 SW-3R (10-11')
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 08:50
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/18 13:22
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.8	J	ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-08 Date Collected: 08/23/18 08:50

Client ID: UST-1 SW-3R (10-11') Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	10		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	120		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	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	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	0.23	J	ug/kg	1.0	0.17	1
sec-Butylbenzene	1.3		ug/kg	1.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	2.9		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
n-Propylbenzene	4.0		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	100	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	109		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-09
Client ID: UST-1 SW-4 (10-11')
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 09:11
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/18 13:48
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	5.1	J	ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-09 Date Collected: 08/23/18 09:11

Client ID: UST-1 SW-4 (10-11') Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	2.8		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	13		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
Methyl Acetate	ND		ug/kg	4.9	1.2	1
Cyclohexane	ND		ug/kg	12	0.67	1
1,4-Dioxane	ND		ug/kg	120	43.	1
Freon-113	ND		ug/kg	4.9	0.85	1
Methyl cyclohexane	ND		ug/kg	4.9	0.74	1

Tentatively Identified Compounds				
Total TIC Compounds	2.86	J	ug/kg	1
Unknown	2.86	J	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-09 Date Collected: 08/23/18 09:11

Client ID: UST-1 SW-4 (10-11') Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	113		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-10
Client ID: UST-1 SW-5 (10-11')
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 09:41
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/18 14:15
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	5.9	J	ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-10 Date Collected: 08/23/18 09:41

Client ID: UST-1 SW-5 (10-11') Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	5.3		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	39		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
Methyl Acetate	ND		ug/kg	4.8	1.1	1
Cyclohexane	ND		ug/kg	12	0.66	1
1,4-Dioxane	ND		ug/kg	120	42.	1
Freon-113	ND		ug/kg	4.8	0.84	1
Methyl cyclohexane	ND		ug/kg	4.8	0.73	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	112		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/24/18 15:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04 Batch: WG1150652-5					
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	2.9		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: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/24/18 15:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04 Batch: WG1150652-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/24/18 15:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04 Batch: WG1150652-5					
Tentatively Identified Compounds					
Total TIC Compounds	3.38	J	ug/kg		
Unknown	3.38	J	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/24/18 15:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03,06 Batch: WG1150656-5					
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	140		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: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/24/18 15:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03,06 Batch: WG1150656-5					
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.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
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
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
1,4-Dioxane	ND		ug/kg	5000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/24/18 15:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03,06 Batch: WG1150656-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/26/18 11:11
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05,07-10 Batch: WG1150857-5					
Methylene chloride	2.4	J	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	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: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/26/18 11:11
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05,07-10 Batch: WG1150857-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/26/18 11:11
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05,07-10 Batch: WG1150857-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1150652-3 WG1150652-4								
Methylene chloride	82		84		70-130	2		30
1,1-Dichloroethane	82		82		70-130	0		30
Chloroform	80		81		70-130	1		30
Carbon tetrachloride	79		77		70-130	3		30
1,2-Dichloropropane	83		86		70-130	4		30
Dibromochloromethane	82		83		70-130	1		30
1,1,2-Trichloroethane	87		89		70-130	2		30
Tetrachloroethene	82		78		70-130	5		30
Chlorobenzene	81		80		70-130	1		30
Trichlorofluoromethane	104		104		70-139	0		30
1,2-Dichloroethane	82		84		70-130	2		30
1,1,1-Trichloroethane	80		80		70-130	0		30
Bromodichloromethane	82		85		70-130	4		30
trans-1,3-Dichloropropene	87		87		70-130	0		30
cis-1,3-Dichloropropene	85		86		70-130	1		30
Bromoform	75		79		70-130	5		30
1,1,2,2-Tetrachloroethane	87		90		70-130	3		30
Benzene	79		79		70-130	0		30
Toluene	79		78		70-130	1		30
Ethylbenzene	80		78		70-130	3		30
Chloromethane	86		80		52-130	7		30
Bromomethane	111		110		57-147	1		30
Vinyl chloride	98		94		67-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1150652-3 WG1150652-4								
Chloroethane	101		105		50-151	4		30
1,1-Dichloroethene	80		78		65-135	3		30
trans-1,2-Dichloroethene	78		78		70-130	0		30
Trichloroethene	80		80		70-130	0		30
1,2-Dichlorobenzene	84		85		70-130	1		30
1,3-Dichlorobenzene	82		83		70-130	1		30
1,4-Dichlorobenzene	83		84		70-130	1		30
Methyl tert butyl ether	82		87		66-130	6		30
p/m-Xylene	80		79		70-130	1		30
o-Xylene	81		81		70-130	0		30
cis-1,2-Dichloroethene	79		81		70-130	3		30
Styrene	83		84		70-130	1		30
Dichlorodifluoromethane	82		78		30-146	5		30
Acetone	90		91		54-140	1		30
Carbon disulfide	82		80		59-130	2		30
2-Butanone	92		101		70-130	9		30
4-Methyl-2-pentanone	89		98		70-130	10		30
2-Hexanone	94		98		70-130	4		30
Bromochloromethane	78		81		70-130	4		30
1,2-Dibromoethane	86		88		70-130	2		30
n-Butylbenzene	87		86		70-130	1		30
sec-Butylbenzene	83		82		70-130	1		30
1,2-Dibromo-3-chloropropane	78		84		68-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1150652-3 WG1150652-4								
Isopropylbenzene	79		79		70-130	0		30
p-Isopropyltoluene	82		82		70-130	0		30
n-Propylbenzene	82		80		70-130	2		30
1,2,3-Trichlorobenzene	80		84		70-130	5		30
1,2,4-Trichlorobenzene	84		87		70-130	4		30
1,3,5-Trimethylbenzene	81		81		70-130	0		30
1,2,4-Trimethylbenzene	82		82		70-130	0		30
Methyl Acetate	89		98		51-146	10		30
Cyclohexane	80		80		59-142	0		30
1,4-Dioxane	83		95		65-136	13		30
Freon-113	82		79		50-139	4		30
Methyl cyclohexane	79		78		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	95		92		70-130
Dibromofluoromethane	101		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03,06 Batch: WG1150656-3 WG1150656-4								
Methylene chloride	82		84		70-130	2		30
1,1-Dichloroethane	82		82		70-130	0		30
Chloroform	80		81		70-130	1		30
Carbon tetrachloride	79		77		70-130	3		30
1,2-Dichloropropane	83		86		70-130	4		30
Dibromochloromethane	82		83		70-130	1		30
1,1,2-Trichloroethane	87		89		70-130	2		30
Tetrachloroethene	82		78		70-130	5		30
Chlorobenzene	81		80		70-130	1		30
Trichlorofluoromethane	104		104		70-139	0		30
1,2-Dichloroethane	82		84		70-130	2		30
1,1,1-Trichloroethane	80		80		70-130	0		30
Bromodichloromethane	82		85		70-130	4		30
trans-1,3-Dichloropropene	87		87		70-130	0		30
cis-1,3-Dichloropropene	85		86		70-130	1		30
Bromoform	75		79		70-130	5		30
1,1,2,2-Tetrachloroethane	87		90		70-130	3		30
Benzene	79		79		70-130	0		30
Toluene	79		78		70-130	1		30
Ethylbenzene	80		78		70-130	3		30
Chloromethane	86		80		52-130	7		30
Bromomethane	111		110		57-147	1		30
Vinyl chloride	98		94		67-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03,06 Batch: WG1150656-3 WG1150656-4								
Chloroethane	101		105		50-151	4		30
1,1-Dichloroethene	80		78		65-135	3		30
trans-1,2-Dichloroethene	78		78		70-130	0		30
Trichloroethene	80		80		70-130	0		30
1,2-Dichlorobenzene	84		85		70-130	1		30
1,3-Dichlorobenzene	82		83		70-130	1		30
1,4-Dichlorobenzene	83		84		70-130	1		30
Methyl tert butyl ether	82		87		66-130	6		30
p/m-Xylene	80		79		70-130	1		30
o-Xylene	81		81		70-130	0		30
cis-1,2-Dichloroethene	79		81		70-130	3		30
Styrene	83		84		70-130	1		30
Dichlorodifluoromethane	82		78		30-146	5		30
Acetone	90		91		54-140	1		30
Carbon disulfide	82		80		59-130	2		30
2-Butanone	92		101		70-130	9		30
4-Methyl-2-pentanone	89		98		70-130	10		30
2-Hexanone	94		98		70-130	4		30
Bromochloromethane	78		81		70-130	4		30
1,2-Dibromoethane	86		88		70-130	2		30
n-Butylbenzene	87		86		70-130	1		30
sec-Butylbenzene	83		82		70-130	1		30
1,2-Dibromo-3-chloropropane	78		84		68-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03,06 Batch: WG1150656-3 WG1150656-4								
Isopropylbenzene	79		79		70-130	0		30
p-Isopropyltoluene	82		82		70-130	0		30
n-Propylbenzene	82		80		70-130	2		30
1,2,3-Trichlorobenzene	80		84		70-130	5		30
1,2,4-Trichlorobenzene	84		87		70-130	4		30
1,3,5-Trimethylbenzene	81		81		70-130	0		30
1,2,4-Trimethylbenzene	82		82		70-130	0		30
Methyl Acetate	89		98		51-146	10		30
Cyclohexane	80		80		59-142	0		30
1,4-Dioxane	83		95		65-136	13		30
Freon-113	82		79		50-139	4		30
Methyl cyclohexane	79		78		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	95		92		70-130
Dibromofluoromethane	101		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,07-10 Batch: WG1150857-3 WG1150857-4								
Methylene chloride	114		116		70-130	2		30
1,1-Dichloroethane	120		119		70-130	1		30
Chloroform	108		110		70-130	2		30
Carbon tetrachloride	110		108		70-130	2		30
1,2-Dichloropropane	113		115		70-130	2		30
Dibromochloromethane	98		98		70-130	0		30
1,1,2-Trichloroethane	106		109		70-130	3		30
Tetrachloroethene	94		97		70-130	3		30
Chlorobenzene	96		96		70-130	0		30
Trichlorofluoromethane	96		98		70-139	2		30
1,2-Dichloroethane	118		120		70-130	2		30
1,1,1-Trichloroethane	112		112		70-130	0		30
Bromodichloromethane	113		115		70-130	2		30
trans-1,3-Dichloropropene	115		115		70-130	0		30
cis-1,3-Dichloropropene	117		117		70-130	0		30
Bromoform	109		109		70-130	0		30
1,1,2,2-Tetrachloroethane	109		109		70-130	0		30
Benzene	107		108		70-130	1		30
Toluene	101		105		70-130	4		30
Ethylbenzene	104		105		70-130	1		30
Chloromethane	112		105		52-130	6		30
Bromomethane	100		100		57-147	0		30
Vinyl chloride	115		112		67-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,07-10 Batch: WG1150857-3 WG1150857-4								
Chloroethane	117		113		50-151	3		30
1,1-Dichloroethene	104		106		65-135	2		30
trans-1,2-Dichloroethene	108		106		70-130	2		30
Trichloroethene	107		107		70-130	0		30
1,2-Dichlorobenzene	97		97		70-130	0		30
1,3-Dichlorobenzene	98		96		70-130	2		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	106		106		66-130	0		30
p/m-Xylene	102		102		70-130	0		30
o-Xylene	99		100		70-130	1		30
cis-1,2-Dichloroethene	103		104		70-130	1		30
Styrene	98		98		70-130	0		30
Dichlorodifluoromethane	97		95		30-146	2		30
Acetone	129		132		54-140	2		30
Carbon disulfide	107		109		59-130	2		30
2-Butanone	81		**68**	Q	70-130	17		30
4-Methyl-2-pentanone	95		100		70-130	5		30
2-Hexanone	73		85		70-130	15		30
Bromochloromethane	97		94		70-130	3		30
1,2-Dibromoethane	95		100		70-130	5		30
n-Butylbenzene	114		112		70-130	2		30
sec-Butylbenzene	105		102		70-130	3		30
1,2-Dibromo-3-chloropropane	97		103		68-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,07-10 Batch: WG1150857-3 WG1150857-4								
Isopropylbenzene	103		99		70-130	4		30
p-Isopropyltoluene	97		96		70-130	1		30
n-Propylbenzene	110		106		70-130	4		30
1,2,3-Trichlorobenzene	104		103		70-130	1		30
1,2,4-Trichlorobenzene	100		100		70-130	0		30
1,3,5-Trimethylbenzene	104		103		70-130	1		30
1,2,4-Trimethylbenzene	105		104		70-130	1		30
Methyl Acetate	102		103		51-146	1		30
Cyclohexane	108		109		59-142	1		30
1,4-Dioxane	94		103		65-136	9		30
Freon-113	106		106		50-139	0		30
Methyl cyclohexane	98		99		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		114		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	112		108		70-130
Dibromofluoromethane	102		99		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1833416
Project Number: 0437-017-001-005-002
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-01
Client ID: MA-SW-1 (2.0)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 14:28
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 06:53
Analyst: RC
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	320		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	24.	1
Benzo(a)anthracene	130		ug/kg	120	22.	1
Benzo(a)pyrene	110	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	170		ug/kg	120	33.	1
Benzo(k)fluoranthene	62	J	ug/kg	120	31.	1
Chrysene	140		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	38	J	ug/kg	120	38.	1
Benzo(ghi)perylene	79	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	180		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	82	J	ug/kg	160	27.	1
Pyrene	250		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	160	43.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-01 Date Collected: 08/23/18 14:28

Client ID: MA-SW-1 (2.0) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	70		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833416
Project Number: 0437-017-001-005-002
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-02
Client ID: MA-SW-2 (2.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 14:47
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 04:16
Analyst: RC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:11

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	22.	1
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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	290	31.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-02 Date Collected: 08/23/18 14:47

Client ID: MA-SW-2 (2.5) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	65		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-04
Client ID: PUMP ISLAND B-2 (7.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 16:01
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 07:45
Analyst: RC
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	52	J	ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	1200		ug/kg	110	22.	1
Naphthalene	32	J	ug/kg	190	23.	1
Benzo(a)anthracene	590		ug/kg	110	21.	1
Benzo(a)pyrene	480		ug/kg	150	46.	1
Benzo(b)fluoranthene	680		ug/kg	110	32.	1
Benzo(k)fluoranthene	220		ug/kg	110	30.	1
Chrysene	580		ug/kg	110	20.	1
Acenaphthylene	38	J	ug/kg	150	29.	1
Anthracene	170		ug/kg	110	37.	1
Benzo(ghi)perylene	350		ug/kg	150	22.	1
Fluorene	57	J	ug/kg	190	18.	1
Phenanthrene	750		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	370		ug/kg	150	26.	1
Pyrene	1100		ug/kg	110	19.	1
Dibenzofuran	31	J	ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-04 Date Collected: 08/23/18 16:01

Client ID: PUMP ISLAND B-2 (7.5) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	1680	J	ug/kg			1
Unknown	302	J	ug/kg			1
Unknown	191	J	ug/kg			1
Unknown PAH	197	J	ug/kg			1
Unknown PAH	154	J	ug/kg			1
Unknown	199	J	ug/kg			1
Unknown	219	J	ug/kg			1
Unknown PAH	421	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	63		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833416
Project Number: 0437-017-001-005-002
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-05
Client ID: BLIND DUP #1
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 12:00
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 04:42
Analyst: RC
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	100	18.	1
Dibenzofuran	ND		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-05 Date Collected: 08/23/18 12:00

Client ID: BLIND DUP #1 Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	72		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-06
Client ID: PUMP ISLAND SW-5 (4.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 15:33
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 05:08
Analyst: RC
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:11

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	20.	1
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	150	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	29.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-06 Date Collected: 08/23/18 15:33

Client ID: PUMP ISLAND SW-5 (4.5) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	74		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-07
Client ID: PUMP ISLAND SW-6 (8.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 15:47
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 05:34
Analyst: RC
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:11

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
Fluoranthene	ND		ug/kg	120	24.	1
Naphthalene	ND		ug/kg	200	25.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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	300	32.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-07 Date Collected: 08/23/18 15:47

Client ID: PUMP ISLAND SW-6 (8.5) Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	77		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833416
Project Number: 0437-017-001-005-002
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-09
Client ID: UST-1 SW-4 (10-11')
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 09:11
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 06:00
Analyst: RC
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:11

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	27.	1
Pyrene	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-09 Date Collected: 08/23/18 09:11

Client ID: UST-1 SW-4 (10-11') Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	72		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833416
Project Number: 0437-017-001-005-002
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-10
Client ID: UST-1 SW-5 (10-11')
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 09:41
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 06:27
Analyst: RC
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:11

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	27.	1
Pyrene	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-10 Date Collected: 08/23/18 09:41

Client ID: UST-1 SW-5 (10-11') Date Received: 08/23/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	65		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/25/18 23:54
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-07,09-10 Batch: WG1150166-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
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.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833416
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/25/18 23:54
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/24/18 08:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-07,09-10 Batch: WG1150166-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	94		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-07,09-10 Batch: WG1150166-2 WG1150166-3								
Acenaphthene	92		87		31-137	6		50
Hexachlorobenzene	93		87		40-140	7		50
Fluoranthene	96		91		40-140	5		50
Naphthalene	86		85		40-140	1		50
Benzo(a)anthracene	90		84		40-140	7		50
Benzo(a)pyrene	94		88		40-140	7		50
Benzo(b)fluoranthene	94		87		40-140	8		50
Benzo(k)fluoranthene	96		90		40-140	6		50
Chrysene	91		85		40-140	7		50
Acenaphthylene	90		88		40-140	2		50
Anthracene	94		91		40-140	3		50
Benzo(ghi)perylene	91		85		40-140	7		50
Fluorene	94		89		40-140	5		50
Phenanthrene	94		89		40-140	5		50
Dibenzo(a,h)anthracene	92		87		40-140	6		50
Indeno(1,2,3-cd)pyrene	93		86		40-140	8		50
Pyrene	94		91		35-142	3		50
Dibenzofuran	92		87		40-140	6		50
Pentachlorophenol	106		100		17-109	6		50
Phenol	**101**	Q	**100**	Q	26-90	1		50
2-Methylphenol	96		95		30-130.	1		50
3-Methylphenol/4-Methylphenol	95		93		30-130	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-07,09-10 Batch: WG1150166-2 WG1150166-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	85		87		25-120
Phenol-d6	92		90		10-120
Nitrobenzene-d5	82		85		23-120
2-Fluorobiphenyl	78		77		30-120
2,4,6-Tribromophenol	92		86		10-136
4-Terphenyl-d14	92		85		18-120

METALS

Project Name: 1585 HERTEL AVE.
Lab Number: L1833416
Project Number: 0437-017-001-005-002
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-01
Client ID: MA-SW-1 (2.0)
Sample Location: BUFFALO, NY
Date Collected: 08/23/18 14:28
Date Received: 08/23/18
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	11600		mg/kg	9.22	2.49	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.61	0.350	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Arsenic, Total	3.59		mg/kg	0.922	0.192	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Barium, Total	91.4		mg/kg	0.922	0.160	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Beryllium, Total	0.581		mg/kg	0.461	0.030	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Cadmium, Total	0.323	J	mg/kg	0.922	0.090	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Calcium, Total	33200		mg/kg	9.22	3.23	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Chromium, Total	16.6		mg/kg	0.922	0.089	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Cobalt, Total	6.56		mg/kg	1.84	0.153	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Copper, Total	16.7		mg/kg	0.922	0.238	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Iron, Total	21400		mg/kg	4.61	0.832	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Lead, Total	12.2		mg/kg	4.61	0.247	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Magnesium, Total	16300		mg/kg	9.22	1.42	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Manganese, Total	356		mg/kg	0.922	0.146	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Mercury, Total	0.056	J	mg/kg	0.075	0.016	1	08/25/18 07:00	08/28/18 10:59	EPA 7471B	1,7471B	MG
Nickel, Total	17.1		mg/kg	2.30	0.223	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Potassium, Total	1100		mg/kg	230	13.3	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Selenium, Total	0.350	J	mg/kg	1.84	0.238	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.922	0.261	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Sodium, Total	264		mg/kg	184	2.90	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.84	0.290	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Vanadium, Total	24.7		mg/kg	0.922	0.187	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB
Zinc, Total	72.6		mg/kg	4.61	0.270	2	08/27/18 15:40	08/27/18 23:46	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1833416
Project Number: 0437-017-001-005-002
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-02
Client ID: MA-SW-2 (2.5)
Sample Location: BUFFALO, NY
Date Collected: 08/23/18 14:47
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12700		mg/kg	9.37	2.53	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.69	0.356	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Arsenic, Total	4.98		mg/kg	0.937	0.195	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Barium, Total	153		mg/kg	0.937	0.163	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Beryllium, Total	0.675		mg/kg	0.469	0.031	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Cadmium, Total	0.712	J	mg/kg	0.937	0.092	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Calcium, Total	36100		mg/kg	9.37	3.28	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Chromium, Total	17.5		mg/kg	0.937	0.090	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Cobalt, Total	17.4		mg/kg	1.87	0.156	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Copper, Total	14.7		mg/kg	0.937	0.242	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Iron, Total	29000		mg/kg	4.69	0.846	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Lead, Total	10.9		mg/kg	4.69	0.251	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Magnesium, Total	10300		mg/kg	9.37	1.44	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Manganese, Total	1940		mg/kg	0.937	0.149	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Mercury, Total	0.042	J	mg/kg	0.076	0.016	1	08/25/18 07:00	08/28/18 11:06	EPA 7471B	1,7471B	MG
Nickel, Total	18.4		mg/kg	2.34	0.227	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Potassium, Total	1070		mg/kg	234	13.5	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Selenium, Total	1.50	J	mg/kg	1.87	0.242	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.937	0.265	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Sodium, Total	278		mg/kg	187	2.95	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Thallium, Total	2.73		mg/kg	1.87	0.295	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Vanadium, Total	24.9		mg/kg	0.937	0.190	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB
Zinc, Total	69.7		mg/kg	4.69	0.275	2	08/27/18 15:40	08/27/18 23:50	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833416

Project Number: 0437-017-001-005-002 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1150516-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	08/25/18 07:00	08/28/18 10:55	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1151055-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Sodium, Total	2.46	J	mg/kg	80.0	1.26	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/27/18 15:40	08/27/18 22:32	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833416
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1150516-2 SRM Lot Number: D102-540								
Mercury, Total	108		-		65-134	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1151055-2 SRM Lot Number: D102-540					
Aluminum, Total	69	-	49-150	-	
Antimony, Total	147	-	1-199	-	
Arsenic, Total	89	-	83-117	-	
Barium, Total	89	-	83-118	-	
Beryllium, Total	87	-	83-116	-	
Cadmium, Total	86	-	83-118	-	
Calcium, Total	85	-	82-118	-	
Chromium, Total	89	-	83-117	-	
Cobalt, Total	86	-	84-116	-	
Copper, Total	86	-	84-116	-	
Iron, Total	86	-	61-139	-	
Lead, Total	88	-	82-118	-	
Magnesium, Total	82	-	76-124	-	
Manganese, Total	88	-	82-118	-	
Nickel, Total	86	-	83-117	-	
Potassium, Total	77	-	70-130	-	
Selenium, Total	90	-	79-121	-	
Silver, Total	91	-	80-120	-	
Sodium, Total	88	-	74-126	-	
Thallium, Total	88	-	81-119	-	
Vanadium, Total	86	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1151055-2 SRM Lot Number: D102-540					
Zinc, Total	86	-	81-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1150516-3 QC Sample: L1833416-01 Client ID: MA-SW-1 (2.0)												
Mercury, Total	0.056J	0.151	0.229	**152**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

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): 01-02 QC Batch ID: WG1151055-3 QC Sample: L1832482-21 Client ID: MS Sample										
Aluminum, Total	6860	157	6960	**64**	Q	-	-	75-125	-	20
Antimony, Total	ND	39.2	30.5	78		-	-	75-125	-	20
Arsenic, Total	1.09	9.41	9.63	91		-	-	75-125	-	20
Barium, Total	50.2	157	188	88		-	-	75-125	-	20
Beryllium, Total	0.590	3.92	3.98	86		-	-	75-125	-	20
Cadmium, Total	ND	4	3.37	84		-	-	75-125	-	20
Calcium, Total	75600	784	76000	**51**	Q	-	-	75-125	-	20
Chromium, Total	34.1	15.7	46.6	80		-	-	75-125	-	20
Cobalt, Total	2.75	39.2	34.2	80		-	-	75-125	-	20
Copper, Total	12.2	19.6	29.5	88		-	-	75-125	-	20
Iron, Total	5540	78.4	5600	76		-	-	75-125	-	20
Lead, Total	3.41J	40	35.6	89		-	-	75-125	-	20
Magnesium, Total	5840	784	6490	83		-	-	75-125	-	20
Manganese, Total	326.	39.2	365	99		-	-	75-125	-	20
Nickel, Total	11.1	39.2	41.0	76		-	-	75-125	-	20
Potassium, Total	1320	784	2170	108		-	-	75-125	-	20
Selenium, Total	0.231J	9.41	8.91	95		-	-	75-125	-	20
Silver, Total	0.399J	23.5	23.6	100		-	-	75-125	-	20
Sodium, Total	795.	784	1500	90		-	-	75-125	-	20
Thallium, Total	ND	9.41	7.20	76		-	-	75-125	-	20
Vanadium, Total	16.9	39.2	51.2	87		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

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): 01-02 QC Batch ID: WG1151055-3 QC Sample: L1832482-21 Client ID: MS Sample									
Zinc, Total	25.3	39.2	58.2	84	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1150516-4 QC Sample: L1833416-01 Client ID: MA-SW-1 (2.0)						
Mercury, Total	0.056J	0.046J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1151055-4 QC Sample: L1832482-21 Client ID: DUP Sample					
Aluminum, Total	6860	6280	mg/kg	9	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	1.09	1.23	mg/kg	12	20
Barium, Total	50.2	45.8	mg/kg	9	20
Beryllium, Total	0.590	0.558	mg/kg	6	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	75600	71200	mg/kg	6	20
Chromium, Total	34.1	32.4	mg/kg	5	20
Cobalt, Total	2.75	2.24	mg/kg	20	20
Copper, Total	12.2	11.5	mg/kg	6	20
Iron, Total	5540	4960	mg/kg	11	20
Lead, Total	3.41J	2.94J	mg/kg	NC	20
Magnesium, Total	5840	5470	mg/kg	7	20
Manganese, Total	326.	302	mg/kg	8	20
Nickel, Total	11.1	11.2	mg/kg	1	20
Potassium, Total	1320	1370	mg/kg	4	20
Selenium, Total	0.231J	0.341J	mg/kg	NC	20
Silver, Total	0.399J	0.240J	mg/kg	NC	20
Sodium, Total	795.	783	mg/kg	2	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1151055-4 QC Sample: L1832482-21 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	16.9	15.2	mg/kg	11	20
Zinc, Total	25.3	24.9	mg/kg	2	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-01
Client ID: MA-SW-1 (2.0)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 14:28
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.1		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-02
Client ID: MA-SW-2 (2.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 14:47
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-03
Client ID: PUMP ISLAND B-1R (7.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 15:34
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-04
Client ID: PUMP ISLAND B-2 (7.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 16:01
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-05
Client ID: BLIND DUP #1
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 12:00
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.9		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-06
Client ID: PUMP ISLAND SW-5 (4.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 15:33
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.5		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-07
Client ID: PUMP ISLAND SW-6 (8.5)
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 15:47
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.5		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-08
Client ID: UST-1 SW-3R (10-11')
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 08:50
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-09
Client ID: UST-1 SW-4 (10-11')
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 09:11
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833416-10
Client ID: UST-1 SW-5 (10-11')
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 09:41
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	08/24/18 09:07	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833416

Report Date: 08/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1150200-1 QC Sample: L1833416-04 Client ID: PUMP ISLAND B-2 (7.5)						
Solids, Total	87.2	86.8	%	0		20

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

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(*)
L1833416-01A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-01B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-01C	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-01D	Glass 60ml unpreserved split	A	NA		5.0	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833416-01E	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-01X	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-01Y	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-01Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-02A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-02B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-02C	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-02D	Glass 60ml unpreserved split	A	NA		5.0	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833416-02E	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-02X	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-02Y	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-02Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-03A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-03B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833416-03C	5 gram Encore Sampler	A	NA		5.0	Y	Absent		TS(7)
L1833416-03Y	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-03Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-04A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-04B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-04C	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-04D	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-04E	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		-
L1833416-04X	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-04Y	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-04Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-05A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-05B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-05C	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-05D	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-05E	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		-
L1833416-05X	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-05Y	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-05Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-06A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-06B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-06C	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-06D	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-06E	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		-
L1833416-06X	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-06Y	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-06Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-07A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833416-07B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-07C	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-07D	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-07E	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		-
L1833416-07X	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-07Y	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-07Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-08A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-08B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-08C	Plastic 2oz unpreserved for TS	A	NA		5.0	Y	Absent		TS(7)
L1833416-08Y	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-08Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-09A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09A1	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09A2	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09B1	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09B2	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09C	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09C1	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09C2	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09D	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-09D1	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-09D2	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-09E	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		-
L1833416-09X	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09X1	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-09X2	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833416-09Y	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-09Y1	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-09Y2	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-09Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-09Z1	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-09Z2	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-10A	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-10B	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-10C	5 gram Encore Sampler	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-10D	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TS(7)
L1833416-10E	Glass 250ml/8oz unpreserved	A	NA		5.0	Y	Absent		-
L1833416-10X	Vial MeOH preserved split	A	NA		5.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1833416-10Y	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)
L1833416-10Z	Vial Water preserved split	A	NA		5.0	Y	Absent	24-AUG-18 10:20	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833416
Project Number:	0437-017-001-005-002	**Report Date:**	08/28/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833416
Project Number:	0437-017-001-005-002	**Report Date:**	08/28/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833416
Project Number:	0437-017-001-005-002	**Report Date:**	08/28/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 8/24/18

ALPHA Job #: L1833416

Client Information

Client: Benchmark Eng
Address: 255 Hardscrabble Turnpike Lackawanna NY 14218
Phone: 716 855 0635
Fax:
Email: TBeksen@Trubylle.com

Project Information

Project Name: 1585 Hertel Ave
Project Location: Buffalo NY
Project # 0437-017-004-005-002
(Use Project name as Project #) ☒
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3 DAY

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:

Cat B

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	RCRA-57 VOC	PAL 3742 SVOC	TAL METALS	Total Bottle	Sample Specific Comments
L1833416-01	MA-SW-1 (2.0')	8/23/18	1428	Soil	TAB	X	X	X		
-02	MA-SW-2 (2.5')		1447			X	X	X		
-03	Pump Island B-1R (7.5')		1534			X				
-04	Pump Island B-2 (7.0')		1601			X	X			add TICs
-05	Blind Dup #1		1200			X	X			add TICs
-06	Pump Island SW-5 (4.5')		1533			X	X			
-07	Pump Island SW-6 (8.5')		1537			X	X			
-08	UST-1 SW-3R (10-11')		850			X	X			
-09	UST-1 SW-4 (10-11')		911			X	X			add TICs
-10	UST-1 SW-5 (10-11')	↓	941	↓	↓	X	X			
	Container Type					E	A	A		
	Preservative					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
TAB FedEx	1640 8/23/18	Audrey Tilley AAL	8/23/18 16:40
Audrey Tilley AAL	8/23/18 17:00		8/24/18 0140

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:	L1833626
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-005-002
Report Date:	08/28/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833626
Report Date: 08/28/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833626-01	HYDRAULIC LIFT OIL	OIL	BUFFALO	08/24/18 13:45	08/24/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833626
Report Date: 08/28/18

Case Narrative

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

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

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

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

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

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

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833626
Project Number:	0437-017-001-005-002	**Report Date:**	08/28/18

Case Narrative (continued)

Report Submission

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

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: 08/28/18

ORGANICS

PCBS

Project Name: 1585 HERTEL AVE.
Lab Number: L1833626
Project Number: 0437-017-001-005-002
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1833626-01
Client ID: HYDRAULIC LIFT OIL
Sample Location: BUFFALO

Date Collected: 08/24/18 13:45
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8082A
Analytical Date: 08/27/18 05:39
Analyst: HT
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3580A
Extraction Date: 08/25/18 12:42
Cleanup Method: EPA 3665A
Cleanup Date: 08/26/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/26/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	4.30	0.382	1	A
Aroclor 1221	ND		mg/kg	4.30	0.431	1	A
Aroclor 1232	ND		mg/kg	4.30	0.912	1	A
Aroclor 1242	ND		mg/kg	4.30	0.580	1	A
Aroclor 1248	ND		mg/kg	4.30	0.645	1	A
Aroclor 1254	ND		mg/kg	4.30	0.471	1	A
Aroclor 1260	ND		mg/kg	4.30	0.795	1	A
Aroclor 1262	ND		mg/kg	4.30	0.546	1	A
Aroclor 1268	ND		mg/kg	4.30	0.446	1	A
PCBs, Total	ND		mg/kg	4.30	0.382	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	136		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833626
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/27/18 05:01
Analyst: HT

Extraction Method: EPA 3580A
Extraction Date: 08/25/18 12:42
Cleanup Method: EPA 3665A
Cleanup Date: 08/26/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/26/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1151199-1						
Aroclor 1016	ND		mg/kg	3.51	0.312	A
Aroclor 1221	ND		mg/kg	3.51	0.352	A
Aroclor 1232	ND		mg/kg	3.51	0.744	A
Aroclor 1242	ND		mg/kg	3.51	0.473	A
Aroclor 1248	ND		mg/kg	3.51	0.526	A
Aroclor 1254	ND		mg/kg	3.51	0.384	A
Aroclor 1260	ND		mg/kg	3.51	0.648	A
Aroclor 1262	ND		mg/kg	3.51	0.446	A
Aroclor 1268	ND		mg/kg	3.51	0.364	A
PCBs, Total	ND		mg/kg	3.51	0.312	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833626

Report Date: 08/28/18

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: WG1151199-2 WG1151199-3									
Aroclor 1016	90		67		40-140	29		50	A
Aroclor 1260	74		63		40-140	16		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		59		30-150	A
Decachlorobiphenyl	79		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		58		30-150	B
Decachlorobiphenyl	88		79		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833626
Report Date: 08/28/18

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(*)*
L1833626-01A	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8082(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833626
Project Number:	0437-017-001-005-002	**Report Date:**	08/28/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833626
Project Number:	0437-017-001-005-002	**Report Date:**	08/28/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833626
Project Number:	0437-017-001-005-002	**Report Date:**	08/28/18

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: 8/25/18

ALPHA Job #: L1833626

Client Information
Client: Benchmark Eng
Address: 2558 Hamburg Turnpike
Lackawanna NY 14218
Phone: 716 828-8358
Fax: 856-0583
Email: TBehnke@Tbehnke.com

Project Information
Project Name: 1585 Hertel Ave
Project Location: Buffalo
Project #: 0437-017-009-005-002
(Use Project name as Project #): X
Project Manager: Chris Bacon
ALPHAQuote #:

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date:
of Days: 2 DAY

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

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

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	TAL PCBs	Sample Specific Comments	Total Bottle
33626 - 01	Hydraulic lift oil	8/24/18	1345	Oil	TAB	X	product	4

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
	8/24/18 1629	Audrey Tilley AAL	8/24/18 16:30
Audrey Tilley AAL	8/24/18 17:00	Wendy Mooney	8/25/18 1:00

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)

ANALYTICAL REPORT

Lab Number:	L1833627
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-005-002
Report Date:	08/29/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833627-01	HL-1 B-1 11'	SOIL	BUFFALO	08/24/18 14:41	08/24/18
L1833627-02	MA-SW-3 2.5'	SOIL	BUFFALO	08/24/18 08:36	08/24/18
L1833627-03	PUMP ISLAND SW-2R 5.5'	SOIL	BUFFALO	08/24/18 15:00	08/24/18
L1833627-04	PUMP ISLAND SW-3R 5.0'	SOIL	BUFFALO	08/24/18 15:06	08/24/18
L1833627-05	PUMP ISLAND SW-7 8.0'	SOIL	BUFFALO	08/24/18 12:00	08/24/18
L1833627-06	PUMP ISLAND SW-8 8.0'	SOIL	BUFFALO	08/24/18 12:07	08/24/18
L1833627-07	PUMP ISLAND SW-9 5.5'	SOIL	BUFFALO	08/24/18 12:15	08/24/18
L1833627-08	PUMP ISLAND SW-10 5.0'	SOIL	BUFFALO	08/24/18 15:20	08/24/18
L1833627-09	UST-1 SW-6 (10-11')	SOIL	BUFFALO	08/24/18 08:30	08/24/18
L1833627-10	PUMP ISLAND B-3 8.0	SOIL	BUFFALO	08/24/18 15:27	08/24/18
L1833627-11	UST-2 SW-2 3.5'	SOIL	BUFFALO	08/24/18 08:10	08/24/18
L1833627-12	UST-2 SW-3 3.5'	SOIL	BUFFALO	08/24/18 08:19	08/24/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

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: 1585 HERTEL AVE. **Lab Number:** L1833627
Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

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.

Total Metals

L1833627-02, -05, -06, -07, -08 and -10: 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.

The WG1151425-3 MS recoveries for aluminum (387%), iron (2150%) and manganese (356%), performed on L1833627-02, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1151425-3 MS recovery, performed on L1833627-02, is outside the acceptance criteria for calcium (67%). A post digestion spike was performed and yielded an unacceptable recovery for calcium (67%). The serial dilution recovery was acceptable; therefore, the matrix test passed for the sample matrix.

The WG1151425-3 MS recovery, performed on L1833627-02, is outside the acceptance criteria for thallium (72%). A post digestion spike was performed and was within acceptance criteria.

The WG1151425-4 Laboratory Duplicate RPDs for arsenic (27%) and manganese (29%), performed on L1833627-02, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature: Melissa Cripps Melissa Cripps

Title: Technical Director/Representative Date: 08/29/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-01
Client ID: HL-1 B-1 11'
Sample Location: BUFFALO

Date Collected: 08/24/18 14:41
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 00:19
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.9	J	ug/kg	6.0	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.23	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.83	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-01 Date Collected: 08/24/18 14:41

Client ID: HL-1 B-1 11' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.67	1
o-Xylene	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	18		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
Methyl Acetate	ND		ug/kg	4.8	1.1	1
Cyclohexane	ND		ug/kg	12	0.65	1
1,4-Dioxane	ND		ug/kg	120	42.	1
Freon-113	ND		ug/kg	4.8	0.82	1
Methyl cyclohexane	ND		ug/kg	4.8	0.72	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-02
Client ID: MA-SW-3 2.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 08:36
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 00:46
Analyst: JC
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	4.5	J	ug/kg	6.9	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.69	0.27	1
Chlorobenzene	ND		ug/kg	0.69	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.96	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.69	0.23	1
Bromodichloromethane	ND		ug/kg	0.69	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.69	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.69	0.23	1
Benzene	ND		ug/kg	0.69	0.23	1
Toluene	ND		ug/kg	1.4	0.75	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.8	0.80	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.8	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1
Trichloroethene	ND		ug/kg	0.69	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-02 Date Collected: 08/24/18 08:36

Client ID: MA-SW-3 2.5' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.77	1
o-Xylene	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	34		ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.3	1
2-Butanone	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.46	1
Methyl Acetate	ND		ug/kg	5.5	1.3	1
Cyclohexane	ND		ug/kg	14	0.75	1
1,4-Dioxane	ND		ug/kg	140	48.	1
Freon-113	ND		ug/kg	5.5	0.96	1
Methyl cyclohexane	ND		ug/kg	5.5	0.83	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-03 D
Client ID: PUMP ISLAND SW-2R 5.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 15:00
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 11:25
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2900	1300	10
1,1-Dichloroethane	ND		ug/kg	570	83.	10
Chloroform	ND		ug/kg	860	80.	10
Carbon tetrachloride	ND		ug/kg	570	130	10
1,2-Dichloropropane	ND		ug/kg	570	72.	10
Dibromochloromethane	ND		ug/kg	570	80.	10
1,1,2-Trichloroethane	ND		ug/kg	570	150	10
Tetrachloroethene	ND		ug/kg	290	110	10
Chlorobenzene	ND		ug/kg	290	73.	10
Trichlorofluoromethane	ND		ug/kg	2300	400	10
1,2-Dichloroethane	ND		ug/kg	570	150	10
1,1,1-Trichloroethane	ND		ug/kg	290	96.	10
Bromodichloromethane	ND		ug/kg	290	62.	10
trans-1,3-Dichloropropene	ND		ug/kg	570	160	10
cis-1,3-Dichloropropene	ND		ug/kg	290	90.	10
Bromoform	ND		ug/kg	2300	140	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	290	95.	10
Benzene	550		ug/kg	290	95.	10
Toluene	11000		ug/kg	570	310	10
Ethylbenzene	13000		ug/kg	570	81.	10
Chloromethane	ND		ug/kg	2300	530	10
Bromomethane	360	J	ug/kg	1100	330	10
Vinyl chloride	ND		ug/kg	570	190	10
Chloroethane	ND		ug/kg	1100	260	10
1,1-Dichloroethene	ND		ug/kg	570	140	10
trans-1,2-Dichloroethene	ND		ug/kg	860	78.	10
Trichloroethene	ND		ug/kg	290	78.	10
1,2-Dichlorobenzene	ND		ug/kg	1100	82.	10

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-03 D
Client ID: PUMP ISLAND SW-2R 5.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 15:00
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1100	85.	10
1,4-Dichlorobenzene	ND		ug/kg	1100	98.	10
Methyl tert butyl ether	ND		ug/kg	1100	120	10
p/m-Xylene	79000		ug/kg	1100	320	10
o-Xylene	29000		ug/kg	570	170	10
cis-1,2-Dichloroethene	ND		ug/kg	570	100	10
Styrene	ND		ug/kg	570	110	10
Dichlorodifluoromethane	ND		ug/kg	5700	520	10
Acetone	ND		ug/kg	5700	2800	10
Carbon disulfide	ND		ug/kg	5700	2600	10
2-Butanone	ND		ug/kg	5700	1300	10
4-Methyl-2-pentanone	ND		ug/kg	5700	730	10
2-Hexanone	ND		ug/kg	5700	680	10
Bromochloromethane	ND		ug/kg	1100	120	10
1,2-Dibromoethane	ND		ug/kg	570	160	10
n-Butylbenzene	5100		ug/kg	570	96.	10
sec-Butylbenzene	1800		ug/kg	570	84.	10
1,2-Dibromo-3-chloropropane	ND		ug/kg	1700	570	10
Isopropylbenzene	2100		ug/kg	570	62.	10
p-Isopropyltoluene	920		ug/kg	570	62.	10
n-Propylbenzene	8100		ug/kg	570	98.	10
1,2,3-Trichlorobenzene	ND		ug/kg	1100	180	10
1,2,4-Trichlorobenzene	ND		ug/kg	1100	160	10
1,3,5-Trimethylbenzene	20000		ug/kg	1100	110	10
1,2,4-Trimethylbenzene	71000		ug/kg	1100	190	10
Methyl Acetate	ND		ug/kg	2300	540	10
Cyclohexane	3000	J	ug/kg	5700	310	10
1,4-Dioxane	ND		ug/kg	57000	20000	10
Freon-113	ND		ug/kg	2300	400	10
Methyl cyclohexane	2800		ug/kg	2300	340	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-04
Client ID: PUMP ISLAND SW-3R 5.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 15:06
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 04:42
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	280	130	1
1,1-Dichloroethane	ND		ug/kg	56	8.1	1
Chloroform	ND		ug/kg	84	7.8	1
Carbon tetrachloride	ND		ug/kg	56	13.	1
1,2-Dichloropropane	ND		ug/kg	56	7.0	1
Dibromochloromethane	ND		ug/kg	56	7.8	1
1,1,2-Trichloroethane	ND		ug/kg	56	15.	1
Tetrachloroethene	ND		ug/kg	28	11.	1
Chlorobenzene	ND		ug/kg	28	7.1	1
Trichlorofluoromethane	ND		ug/kg	220	39.	1
1,2-Dichloroethane	ND		ug/kg	56	14.	1
1,1,1-Trichloroethane	ND		ug/kg	28	9.3	1
Bromodichloromethane	ND		ug/kg	28	6.1	1
trans-1,3-Dichloropropene	ND		ug/kg	56	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	28	8.8	1
Bromoform	ND		ug/kg	220	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	28	9.3	1
Benzene	31		ug/kg	28	9.3	1
Toluene	ND		ug/kg	56	30.	1
Ethylbenzene	860		ug/kg	56	7.9	1
Chloromethane	ND		ug/kg	220	52.	1
Bromomethane	48	J	ug/kg	110	32.	1
Vinyl chloride	ND		ug/kg	56	19.	1
Chloroethane	ND		ug/kg	110	25.	1
1,1-Dichloroethene	ND		ug/kg	56	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	84	7.7	1
Trichloroethene	ND		ug/kg	28	7.7	1
1,2-Dichlorobenzene	ND		ug/kg	110	8.0	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-04 Date Collected: 08/24/18 15:06

Client ID: PUMP ISLAND SW-3R 5.0' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	110	8.3	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.6	1
Methyl tert butyl ether	12	J	ug/kg	110	11.	1
p/m-Xylene	3100		ug/kg	110	31.	1
o-Xylene	56		ug/kg	56	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	56	9.8	1
Styrene	ND		ug/kg	56	11.	1
Dichlorodifluoromethane	ND		ug/kg	560	51.	1
Acetone	ND		ug/kg	560	270	1
Carbon disulfide	ND		ug/kg	560	250	1
2-Butanone	ND		ug/kg	560	120	1
4-Methyl-2-pentanone	ND		ug/kg	560	72.	1
2-Hexanone	ND		ug/kg	560	66.	1
Bromochloromethane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	56	16.	1
n-Butylbenzene	710		ug/kg	56	9.3	1
sec-Butylbenzene	230		ug/kg	56	8.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	56.	1
Isopropylbenzene	230		ug/kg	56	6.1	1
p-Isopropyltoluene	140		ug/kg	56	6.1	1
n-Propylbenzene	950		ug/kg	56	9.6	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	2200		ug/kg	110	11.	1
1,2,4-Trimethylbenzene	7900		ug/kg	110	19.	1
Methyl Acetate	330		ug/kg	220	53.	1
Cyclohexane	480	J	ug/kg	560	30.	1
1,4-Dioxane	ND		ug/kg	5600	2000	1
Freon-113	ND		ug/kg	220	39.	1
Methyl cyclohexane	450		ug/kg	220	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-05
Client ID: PUMP ISLAND SW-7 8.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 12:00
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 01:12
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.8	J	ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-05 Date Collected: 08/24/18 12:00

Client ID: PUMP ISLAND SW-7 8.0' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	0.75	J	ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.89	1
Acetone	22		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.4	1
2-Butanone	ND		ug/kg	9.8	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
n-Propylbenzene	ND		ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	3.9	0.93	1
Cyclohexane	ND		ug/kg	9.8	0.53	1
1,4-Dioxane	ND		ug/kg	98	34.	1
Freon-113	ND		ug/kg	3.9	0.68	1
Methyl cyclohexane	ND		ug/kg	3.9	0.59	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-06
Client ID: PUMP ISLAND SW-8 8.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 12:07
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 01:39
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	4.2	J	ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.34	1
Tetrachloroethene	ND		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	1.6		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	0.80	J	ug/kg	2.5	0.18	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-06 Date Collected: 08/24/18 12:07

Client ID: PUMP ISLAND SW-8 8.0' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	0.47	J	ug/kg	1.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
Styrene	ND		ug/kg	1.2	0.25	1
Dichlorodifluoromethane	ND		ug/kg	12	1.2	1
Acetone	38		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
n-Butylbenzene	8.9		ug/kg	1.2	0.21	1
sec-Butylbenzene	3.6		ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.2	1
Isopropylbenzene	6.8		ug/kg	1.2	0.14	1
p-Isopropyltoluene	0.68	J	ug/kg	1.2	0.14	1
n-Propylbenzene	22		ug/kg	1.2	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	0.31	J	ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	2.5	0.42	1
Methyl Acetate	ND		ug/kg	5.0	1.2	1
Cyclohexane	5.0	J	ug/kg	12	0.68	1
1,4-Dioxane	ND		ug/kg	120	44.	1
Freon-113	ND		ug/kg	5.0	0.87	1
Methyl cyclohexane	14		ug/kg	5.0	0.76	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-07
Client ID: PUMP ISLAND SW-9 5.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 12:15
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 02:05
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.6	J	ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		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	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	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	0.55	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	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-07 Date Collected: 08/24/18 12:15

Client ID: PUMP ISLAND SW-9 5.5' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.87	J	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	2.4	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	0.31	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	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	0.37	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	110	39.	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	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-08
Client ID: PUMP ISLAND SW-10 5.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 15:20
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 12:50
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	260	120	1
1,1-Dichloroethane	ND		ug/kg	52	7.6	1
Chloroform	ND		ug/kg	78	7.3	1
Carbon tetrachloride	ND		ug/kg	52	12.	1
1,2-Dichloropropane	ND		ug/kg	52	6.5	1
Dibromochloromethane	ND		ug/kg	52	7.3	1
1,1,2-Trichloroethane	ND		ug/kg	52	14.	1
Tetrachloroethene	ND		ug/kg	26	10.	1
Chlorobenzene	ND		ug/kg	26	6.6	1
Trichlorofluoromethane	ND		ug/kg	210	36.	1
1,2-Dichloroethane	ND		ug/kg	52	13.	1
1,1,1-Trichloroethane	ND		ug/kg	26	8.7	1
Bromodichloromethane	ND		ug/kg	26	5.7	1
trans-1,3-Dichloropropene	ND		ug/kg	52	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	26	8.2	1
Bromoform	ND		ug/kg	210	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	26	8.6	1
Benzene	ND		ug/kg	26	8.6	1
Toluene	ND		ug/kg	52	28.	1
Ethylbenzene	19	J	ug/kg	52	7.3	1
Chloromethane	ND		ug/kg	210	48.	1
Bromomethane	70	J	ug/kg	100	30.	1
Vinyl chloride	ND		ug/kg	52	17.	1
Chloroethane	ND		ug/kg	100	24.	1
1,1-Dichloroethene	ND		ug/kg	52	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	78	7.1	1
Trichloroethene	ND		ug/kg	26	7.1	1
1,2-Dichlorobenzene	ND		ug/kg	100	7.5	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-08 Date Collected: 08/24/18 15:20

Client ID: PUMP ISLAND SW-10 5.0' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	100	7.7	1
1,4-Dichlorobenzene	ND		ug/kg	100	8.9	1
Methyl tert butyl ether	ND		ug/kg	100	10.	1
p/m-Xylene	ND		ug/kg	100	29.	1
o-Xylene	ND		ug/kg	52	15.	1
cis-1,2-Dichloroethene	ND		ug/kg	52	9.1	1
Styrene	ND		ug/kg	52	10.	1
Dichlorodifluoromethane	ND		ug/kg	520	48.	1
Acetone	ND		ug/kg	520	250	1
Carbon disulfide	ND		ug/kg	520	240	1
2-Butanone	ND		ug/kg	520	120	1
4-Methyl-2-pentanone	ND		ug/kg	520	67.	1
2-Hexanone	ND		ug/kg	520	62.	1
Bromochloromethane	ND		ug/kg	100	11.	1
1,2-Dibromoethane	ND		ug/kg	52	14.	1
n-Butylbenzene	870		ug/kg	52	8.7	1
sec-Butylbenzene	330		ug/kg	52	7.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	52.	1
Isopropylbenzene	230		ug/kg	52	5.7	1
p-Isopropyltoluene	ND		ug/kg	52	5.7	1
n-Propylbenzene	1200		ug/kg	52	8.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	100	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.	1
1,3,5-Trimethylbenzene	ND		ug/kg	100	10.	1
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.	1
Methyl Acetate	220		ug/kg	210	50.	1
Cyclohexane	140	J	ug/kg	520	28.	1
1,4-Dioxane	ND		ug/kg	5200	1800	1
Freon-113	ND		ug/kg	210	36.	1
Methyl cyclohexane	190	J	ug/kg	210	31.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-09
Client ID: UST-1 SW-6 (10-11')
Sample Location: BUFFALO

Date Collected: 08/24/18 08:30
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 02:32
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.8	J	ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-09 Date Collected: 08/24/18 08:30

Client ID: UST-1 SW-6 (10-11') Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	55		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
Methyl Acetate	ND		ug/kg	4.9	1.2	1
Cyclohexane	ND		ug/kg	12	0.66	1
1,4-Dioxane	ND		ug/kg	120	43.	1
Freon-113	ND		ug/kg	4.9	0.84	1
Methyl cyclohexane	ND		ug/kg	4.9	0.73	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-10
Client ID: PUMP ISLAND B-3 8.0
Sample Location: BUFFALO

Date Collected: 08/24/18 15:27
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 13:18
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	290	130	1
1,1-Dichloroethane	ND		ug/kg	58	8.4	1
Chloroform	ND		ug/kg	87	8.1	1
Carbon tetrachloride	ND		ug/kg	58	13.	1
1,2-Dichloropropane	ND		ug/kg	58	7.2	1
Dibromochloromethane	ND		ug/kg	58	8.1	1
1,1,2-Trichloroethane	ND		ug/kg	58	16.	1
Tetrachloroethene	ND		ug/kg	29	11.	1
Chlorobenzene	ND		ug/kg	29	7.4	1
Trichlorofluoromethane	ND		ug/kg	230	40.	1
1,2-Dichloroethane	ND		ug/kg	58	15.	1
1,1,1-Trichloroethane	ND		ug/kg	29	9.7	1
Bromodichloromethane	ND		ug/kg	29	6.3	1
trans-1,3-Dichloropropene	ND		ug/kg	58	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	29	9.2	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	29	9.6	1
Benzene	ND		ug/kg	29	9.6	1
Toluene	ND		ug/kg	58	32.	1
Ethylbenzene	50	J	ug/kg	58	8.2	1
Chloromethane	ND		ug/kg	230	54.	1
Bromomethane	67	J	ug/kg	120	34.	1
Vinyl chloride	ND		ug/kg	58	19.	1
Chloroethane	ND		ug/kg	120	26.	1
1,1-Dichloroethene	ND		ug/kg	58	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	87	8.0	1
Trichloroethene	ND		ug/kg	29	8.0	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.4	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-10 Date Collected: 08/24/18 15:27

Client ID: PUMP ISLAND B-3 8.0 Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	120	8.6	1
1,4-Dichlorobenzene	ND		ug/kg	120	9.9	1
Methyl tert butyl ether	40	J	ug/kg	120	12.	1
p/m-Xylene	240		ug/kg	120	32.	1
o-Xylene	95		ug/kg	58	17.	1
cis-1,2-Dichloroethene	ND		ug/kg	58	10.	1
Styrene	ND		ug/kg	58	11.	1
Dichlorodifluoromethane	ND		ug/kg	580	53.	1
Acetone	ND		ug/kg	580	280	1
Carbon disulfide	ND		ug/kg	580	260	1
2-Butanone	ND		ug/kg	580	130	1
4-Methyl-2-pentanone	ND		ug/kg	580	74.	1
2-Hexanone	ND		ug/kg	580	68.	1
Bromochloromethane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	58	16.	1
n-Butylbenzene	42	J	ug/kg	58	9.7	1
sec-Butylbenzene	14	J	ug/kg	58	8.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	58.	1
Isopropylbenzene	14	J	ug/kg	58	6.3	1
p-Isopropyltoluene	ND		ug/kg	58	6.3	1
n-Propylbenzene	55	J	ug/kg	58	9.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	120		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	430		ug/kg	120	19.	1
Methyl Acetate	400		ug/kg	230	55.	1
Cyclohexane	ND		ug/kg	580	32.	1
1,4-Dioxane	ND		ug/kg	5800	2000	1
Freon-113	ND		ug/kg	230	40.	1
Methyl cyclohexane	ND		ug/kg	230	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-11
Client ID: UST-2 SW-2 3.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 08:10
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 02:59
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.9	J	ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-11 Date Collected: 08/24/18 08:10

Client ID: UST-2 SW-2 3.5' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	32		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	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	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	0.96	J	ug/kg	1.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	1.3		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	100	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-12
Client ID: UST-2 SW-3 3.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 08:19
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 05:45
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	1.6	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	ND		ug/kg	0.55	0.21	1
Chlorobenzene	ND		ug/kg	0.55	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	0.55	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	0.59	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	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	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	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-12 Date Collected: 08/24/18 08:19

Client ID: UST-2 SW-3 3.5' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	2.2		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	ND		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	7.2	J	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	0.22	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
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
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	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	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	110	38.	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	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 08:42
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03,08,10 Batch: WG1151522-5					
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	87	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: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 08:42
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03,08,10 Batch: WG1151522-5					
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.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
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
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
1,4-Dioxane	ND		ug/kg	5000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 08:42
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03,08,10 Batch: WG1151522-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,05-07,09,11 Batch: WG1151723-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,05-07,09,11 Batch: WG1151723-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.20	J	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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,05-07,09,11 Batch: WG1151723-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:24
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 12 Batch: WG1151742-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:24
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 12 Batch: WG1151742-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:24
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 12 Batch: WG1151742-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:39
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1151745-5					
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	80	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: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:39
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1151745-5					
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.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
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
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
1,4-Dioxane	ND		ug/kg	5000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:39
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1151745-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03,08,10 Batch: WG1151522-3 WG1151522-4								
Methylene chloride	96		93		70-130	3		30
1,1-Dichloroethane	98		94		70-130	4		30
Chloroform	100		96		70-130	4		30
Carbon tetrachloride	99		97		70-130	2		30
1,2-Dichloropropane	103		98		70-130	5		30
Dibromochloromethane	97		95		70-130	2		30
1,1,2-Trichloroethane	98		96		70-130	2		30
Tetrachloroethene	95		90		70-130	5		30
Chlorobenzene	96		95		70-130	1		30
Trichlorofluoromethane	108		105		70-139	3		30
1,2-Dichloroethane	100		100		70-130	0		30
1,1,1-Trichloroethane	102		99		70-130	3		30
Bromodichloromethane	102		98		70-130	4		30
trans-1,3-Dichloropropene	101		95		70-130	6		30
cis-1,3-Dichloropropene	101		99		70-130	2		30
Bromoform	88		88		70-130	0		30
1,1,2,2-Tetrachloroethane	98		98		70-130	0		30
Benzene	96		93		70-130	3		30
Toluene	98		92		70-130	6		30
Ethylbenzene	99		95		70-130	4		30
Chloromethane	100		92		52-130	8		30
Bromomethane	127		119		57-147	7		30
Vinyl chloride	114		108		67-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03,08,10 Batch: WG1151522-3 WG1151522-4								
Chloroethane	117		113		50-151	3		30
1,1-Dichloroethene	94		89		65-135	5		30
trans-1,2-Dichloroethene	94		89		70-130	5		30
Trichloroethene	99		98		70-130	1		30
1,2-Dichlorobenzene	100		98		70-130	2		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	100		97		70-130	3		30
Methyl tert butyl ether	94		93		66-130	1		30
p/m-Xylene	100		94		70-130	6		30
o-Xylene	101		96		70-130	5		30
cis-1,2-Dichloroethene	96		92		70-130	4		30
Styrene	100		94		70-130	6		30
Dichlorodifluoromethane	100		92		30-146	8		30
Acetone	94		85		54-140	10		30
Carbon disulfide	93		89		59-130	4		30
2-Butanone	97		96		70-130	1		30
4-Methyl-2-pentanone	90		89		70-130	1		30
2-Hexanone	93		91		70-130	2		30
Bromochloromethane	96		92		70-130	4		30
1,2-Dibromoethane	97		96		70-130	1		30
n-Butylbenzene	103		100		70-130	3		30
sec-Butylbenzene	103		99		70-130	4		30
1,2-Dibromo-3-chloropropane	89		91		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03,08,10 Batch: WG1151522-3 WG1151522-4								
Isopropylbenzene	102		98		70-130	4		30
p-Isopropyltoluene	102		100		70-130	2		30
n-Propylbenzene	101		98		70-130	3		30
1,2,3-Trichlorobenzene	96		95		70-130	1		30
1,2,4-Trichlorobenzene	101		98		70-130	3		30
1,3,5-Trimethylbenzene	101		98		70-130	3		30
1,2,4-Trimethylbenzene	100		98		70-130	2		30
Methyl Acetate	93		96		51-146	3		30
Cyclohexane	97		93		59-142	4		30
1,4-Dioxane	98		89		65-136	10		30
Freon-113	96		93		50-139	3		30
Methyl cyclohexane	96		94		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,05-07,09,11 Batch: WG1151723-3 WG1151723-4								
Methylene chloride	86		86		70-130	0		30
1,1-Dichloroethane	91		91		70-130	0		30
Chloroform	94		92		70-130	2		30
Carbon tetrachloride	93		93		70-130	0		30
1,2-Dichloropropane	94		94		70-130	0		30
Dibromochloromethane	96		97		70-130	1		30
1,1,2-Trichloroethane	98		100		70-130	2		30
Tetrachloroethene	92		92		70-130	0		30
Chlorobenzene	92		92		70-130	0		30
Trichlorofluoromethane	85		87		70-139	2		30
1,2-Dichloroethane	94		95		70-130	1		30
1,1,1-Trichloroethane	92		93		70-130	1		30
Bromodichloromethane	96		97		70-130	1		30
trans-1,3-Dichloropropene	91		91		70-130	0		30
cis-1,3-Dichloropropene	99		99		70-130	0		30
Bromoform	95		98		70-130	3		30
1,1,2,2-Tetrachloroethane	100		101		70-130	1		30
Benzene	92		92		70-130	0		30
Toluene	90		90		70-130	0		30
Ethylbenzene	91		90		70-130	1		30
Chloromethane	81		78		52-130	4		30
Bromomethane	83		82		57-147	1		30
Vinyl chloride	81		80		67-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,05-07,09,11 Batch: WG1151723-3 WG1151723-4								
Chloroethane	84		85		50-151	1		30
1,1-Dichloroethene	88		87		65-135	1		30
trans-1,2-Dichloroethene	90		90		70-130	0		30
Trichloroethene	94		95		70-130	1		30
1,2-Dichlorobenzene	93		93		70-130	0		30
1,3-Dichlorobenzene	93		93		70-130	0		30
1,4-Dichlorobenzene	92		93		70-130	1		30
Methyl tert butyl ether	92		93		66-130	1		30
p/m-Xylene	91		91		70-130	0		30
o-Xylene	92		92		70-130	0		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Styrene	91		90		70-130	1		30
Dichlorodifluoromethane	74		71		30-146	4		30
Acetone	90		88		54-140	2		30
Carbon disulfide	84		84		59-130	0		30
2-Butanone	84		88		70-130	5		30
4-Methyl-2-pentanone	90		91		70-130	1		30
2-Hexanone	86		91		70-130	6		30
Bromochloromethane	96		96		70-130	0		30
1,2-Dibromoethane	100		100		70-130	0		30
n-Butylbenzene	93		92		70-130	1		30
sec-Butylbenzene	92		92		70-130	0		30
1,2-Dibromo-3-chloropropane	90		90		68-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,05-07,09,11 Batch: WG1151723-3 WG1151723-4								
Isopropylbenzene	92		92		70-130	0		30
p-Isopropyltoluene	91		91		70-130	0		30
n-Propylbenzene	93		93		70-130	0		30
1,2,3-Trichlorobenzene	93		94		70-130	1		30
1,2,4-Trichlorobenzene	93		94		70-130	1		30
1,3,5-Trimethylbenzene	91		92		70-130	1		30
1,2,4-Trimethylbenzene	91		91		70-130	0		30
Methyl Acetate	89		90		51-146	1		30
Cyclohexane	90		89		59-142	1		30
1,4-Dioxane	120		121		65-136	1		30
Freon-113	85		85		50-139	0		30
Methyl cyclohexane	90		90		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 12 Batch: WG1151742-3 WG1151742-4								
Methylene chloride	102		102		70-130	0		30
1,1-Dichloroethane	108		107		70-130	1		30
Chloroform	107		106		70-130	1		30
Carbon tetrachloride	111		111		70-130	0		30
1,2-Dichloropropane	109		108		70-130	1		30
Dibromochloromethane	108		108		70-130	0		30
1,1,2-Trichloroethane	109		108		70-130	1		30
Tetrachloroethene	112		110		70-130	2		30
Chlorobenzene	105		105		70-130	0		30
Trichlorofluoromethane	103		106		70-139	3		30
1,2-Dichloroethane	102		102		70-130	0		30
1,1,1-Trichloroethane	109		109		70-130	0		30
Bromodichloromethane	109		110		70-130	1		30
trans-1,3-Dichloropropene	96		96		70-130	0		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
Bromoform	93		93		70-130	0		30
1,1,2,2-Tetrachloroethane	102		102		70-130	0		30
Benzene	106		106		70-130	0		30
Toluene	105		104		70-130	1		30
Ethylbenzene	106		106		70-130	0		30
Chloromethane	114		108		52-130	5		30
Bromomethane	107		105		57-147	2		30
Vinyl chloride	107		104		67-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 12 Batch: WG1151742-3 WG1151742-4								
Chloroethane	91		95		50-151	4		30
1,1-Dichloroethene	103		104		65-135	1		30
trans-1,2-Dichloroethene	111		109		70-130	2		30
Trichloroethene	110		109		70-130	1		30
1,2-Dichlorobenzene	106		106		70-130	0		30
1,3-Dichlorobenzene	105		105		70-130	0		30
1,4-Dichlorobenzene	101		102		70-130	1		30
Methyl tert butyl ether	107		106		66-130	1		30
p/m-Xylene	108		108		70-130	0		30
o-Xylene	108		107		70-130	1		30
cis-1,2-Dichloroethene	109		109		70-130	0		30
Styrene	109		108		70-130	1		30
Dichlorodifluoromethane	108		106		30-146	2		30
Acetone	106		103		54-140	3		30
Carbon disulfide	98		99		59-130	1		30
2-Butanone	115		113		70-130	2		30
4-Methyl-2-pentanone	100		99		70-130	1		30
2-Hexanone	101		96		70-130	5		30
Bromochloromethane	114		112		70-130	2		30
1,2-Dibromoethane	100		99		70-130	1		30
n-Butylbenzene	107		109		70-130	2		30
sec-Butylbenzene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	97		96		68-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 12 Batch: WG1151742-3 WG1151742-4								
Isopropylbenzene	106		106		70-130	0		30
p-Isopropyltoluene	107		107		70-130	0		30
n-Propylbenzene	106		105		70-130	1		30
1,2,3-Trichlorobenzene	104		103		70-130	1		30
1,2,4-Trichlorobenzene	106		106		70-130	0		30
1,3,5-Trimethylbenzene	105		105		70-130	0		30
1,2,4-Trimethylbenzene	106		105		70-130	1		30
Methyl Acetate	94		92		51-146	2		30
Cyclohexane	111		110		59-142	1		30
1,4-Dioxane	114		113		65-136	1		30
Freon-113	101		100		50-139	1		30
Methyl cyclohexane	113		112		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	103		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1151745-3 WG1151745-4								
Methylene chloride	90		91		70-130	1		30
1,1-Dichloroethane	88		90		70-130	2		30
Chloroform	91		92		70-130	1		30
Carbon tetrachloride	94		95		70-130	1		30
1,2-Dichloropropane	91		94		70-130	3		30
Dibromochloromethane	94		96		70-130	2		30
1,1,2-Trichloroethane	97		96		70-130	1		30
Tetrachloroethene	92		91		70-130	1		30
Chlorobenzene	91		92		70-130	1		30
Trichlorofluoromethane	102		109		70-139	7		30
1,2-Dichloroethane	91		96		70-130	5		30
1,1,1-Trichloroethane	96		98		70-130	2		30
Bromodichloromethane	92		97		70-130	5		30
trans-1,3-Dichloropropene	94		95		70-130	1		30
cis-1,3-Dichloropropene	92		94		70-130	2		30
Bromoform	83		85		70-130	2		30
1,1,2,2-Tetrachloroethane	96		98		70-130	2		30
Benzene	89		90		70-130	1		30
Toluene	89		91		70-130	2		30
Ethylbenzene	90		91		70-130	1		30
Chloromethane	92		90		52-130	2		30
Bromomethane	102		106		57-147	4		30
Vinyl chloride	106		109		67-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1151745-3 WG1151745-4								
Chloroethane	107		112		50-151	5		30
1,1-Dichloroethene	89		89		65-135	0		30
trans-1,2-Dichloroethene	88		88		70-130	0		30
Trichloroethene	92		95		70-130	3		30
1,2-Dichlorobenzene	95		95		70-130	0		30
1,3-Dichlorobenzene	94		94		70-130	0		30
1,4-Dichlorobenzene	93		95		70-130	2		30
Methyl tert butyl ether	91		92		66-130	1		30
p/m-Xylene	90		91		70-130	1		30
o-Xylene	91		91		70-130	0		30
cis-1,2-Dichloroethene	90		91		70-130	1		30
Styrene	88		90		70-130	2		30
Dichlorodifluoromethane	98		94		30-146	4		30
Acetone	89		91		54-140	2		30
Carbon disulfide	85		87		59-130	2		30
2-Butanone	98		101		70-130	3		30
4-Methyl-2-pentanone	96		98		70-130	2		30
2-Hexanone	94		96		70-130	2		30
Bromochloromethane	88		91		70-130	3		30
1,2-Dibromoethane	95		97		70-130	2		30
n-Butylbenzene	97		99		70-130	2		30
sec-Butylbenzene	97		98		70-130	1		30
1,2-Dibromo-3-chloropropane	92		95		68-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1151745-3 WG1151745-4								
Isopropylbenzene	95		95		70-130	0		30
p-Isopropyltoluene	96		96		70-130	0		30
n-Propylbenzene	94		95		70-130	1		30
1,2,3-Trichlorobenzene	94		96		70-130	2		30
1,2,4-Trichlorobenzene	98		100		70-130	2		30
1,3,5-Trimethylbenzene	94		95		70-130	1		30
1,2,4-Trimethylbenzene	94		95		70-130	1		30
Methyl Acetate	94		98		51-146	4		30
Cyclohexane	89		91		59-142	2		30
1,4-Dioxane	99		103		65-136	4		30
Freon-113	92		96		50-139	4		30
Methyl cyclohexane	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		99		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	101		101		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1833627
Project Number: 0437-017-001-005-002
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-01
Client ID: HL-1 B-1 11'
Sample Location: BUFFALO

Date Collected: 08/24/18 14:41
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 15:12
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	27.	1
Pyrene	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-01 Date Collected: 08/24/18 14:41

Client ID: HL-1 B-1 11' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	69		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833627
Project Number: 0437-017-001-005-002
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-02
Client ID: MA-SW-3 2.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 08:36
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 15:37
Analyst: EK
Percent Solids: 69%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	190	25.	1
Hexachlorobenzene	ND		ug/kg	140	27.	1
Fluoranthene	ND		ug/kg	140	27.	1
Naphthalene	ND		ug/kg	240	29.	1
Benzo(a)anthracene	ND		ug/kg	140	27.	1
Benzo(a)pyrene	ND		ug/kg	190	58.	1
Benzo(b)fluoranthene	ND		ug/kg	140	40.	1
Benzo(k)fluoranthene	ND		ug/kg	140	38.	1
Chrysene	ND		ug/kg	140	25.	1
Acenaphthylene	ND		ug/kg	190	37.	1
Anthracene	ND		ug/kg	140	46.	1
Benzo(ghi)perylene	ND		ug/kg	190	28.	1
Fluorene	ND		ug/kg	240	23.	1
Phenanthrene	ND		ug/kg	140	29.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	27.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	190	33.	1
Pyrene	ND		ug/kg	140	24.	1
Dibenzofuran	ND		ug/kg	240	22.	1
Pentachlorophenol	ND		ug/kg	190	52.	1
Phenol	ND		ug/kg	240	36.	1
2-Methylphenol	ND		ug/kg	240	37.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	340	37.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-02 Date Collected: 08/24/18 08:36

Client ID: MA-SW-3 2.5' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	64		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-05
Client ID: PUMP ISLAND SW-7 8.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 12:00
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 16:02
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	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	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-05 Date Collected: 08/24/18 12:00

Client ID: PUMP ISLAND SW-7 8.0' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	95		25-120
Phenol-d6	100		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	79		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-06
Client ID: PUMP ISLAND SW-8 8.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 12:07
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 16:28
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-06 Date Collected: 08/24/18 12:07

Client ID: PUMP ISLAND SW-8 8.0' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	68		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-07
Client ID: PUMP ISLAND SW-9 5.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 12:15
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 16:53
Analyst: EK
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

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
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	25.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-07 Date Collected: 08/24/18 12:15

Client ID: PUMP ISLAND SW-9 5.5' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	79		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-08
Client ID: PUMP ISLAND SW-10 5.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 15:20
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 19:26
Analyst: EK
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

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
Fluoranthene	56	J	ug/kg	110	21.	1
Naphthalene	110	J	ug/kg	180	22.	1
Benzo(a)anthracene	22	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	23	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	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	28	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	50	J	ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	150	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	29.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-08 Date Collected: 08/24/18 15:20

Client ID: PUMP ISLAND SW-10 5.0' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	80		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833627
Project Number: 0437-017-001-005-002
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-09
Client ID: UST-1 SW-6 (10-11')
Sample Location: BUFFALO

Date Collected: 08/24/18 08:30
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 17:19
Analyst: EK
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	160	43.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-09 Date Collected: 08/24/18 08:30

Client ID: UST-1 SW-6 (10-11') Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	84		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-10
Client ID: PUMP ISLAND B-3 8.0
Sample Location: BUFFALO

Date Collected: 08/24/18 15:27
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 18:35
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	150	J	ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-10 Date Collected: 08/24/18 15:27

Client ID: PUMP ISLAND B-3 8.0 Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	69		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833627
Project Number: 0437-017-001-005-002
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-11
Client ID: UST-2 SW-2 3.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 08:10
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 17:44
Analyst: EK
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	160	43.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-11 Date Collected: 08/24/18 08:10

Client ID: UST-2 SW-2 3.5' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	80		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833627
Project Number: 0437-017-001-005-002
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-12
Client ID: UST-2 SW-3 3.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 08:19
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 18:10
Analyst: EK
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-12 Date Collected: 08/24/18 08:19

Client ID: UST-2 SW-3 3.5' Date Received: 08/24/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	83		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/26/18 11:48
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,05-12 Batch: WG1150543-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
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.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833627
Report Date: 08/29/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/26/18 11:48
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 08/25/18 07:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,05-12 Batch: WG1150543-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	89		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-12 Batch: WG1150543-2 WG1150543-3								
Acenaphthene	88		93		31-137	6		50
Hexachlorobenzene	94		97		40-140	3		50
Fluoranthene	92		96		40-140	4		50
Naphthalene	96		87		40-140	10		50
Benzo(a)anthracene	88		91		40-140	3		50
Benzo(a)pyrene	94		100		40-140	6		50
Benzo(b)fluoranthene	92		93		40-140	1		50
Benzo(k)fluoranthene	92		100		40-140	8		50
Chrysene	93		96		40-140	3		50
Acenaphthylene	92		94		40-140	2		50
Anthracene	93		96		40-140	3		50
Benzo(ghi)perylene	91		97		40-140	6		50
Fluorene	91		94		40-140	3		50
Phenanthrene	92		94		40-140	2		50
Dibenzo(a,h)anthracene	92		97		40-140	5		50
Indeno(1,2,3-cd)pyrene	92		96		40-140	4		50
Pyrene	91		96		35-142	5		50
Dibenzofuran	88		92		40-140	4		50
Pentachlorophenol	88		89		17-109	1		50
Phenol	**92**	Q	**94**	Q	26-90	2		50
2-Methylphenol	97		99		30-130.	2		50
3-Methylphenol/4-Methylphenol	100		103		30-130	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-12 Batch: WG1150543-2 WG1150543-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	90		94		25-120
Phenol-d6	98		97		10-120
Nitrobenzene-d5	93		96		23-120
2-Fluorobiphenyl	86		89		30-120
2,4,6-Tribromophenol	93		95		10-136
4-Terphenyl-d14	88		91		18-120

METALS

Project Name: 1585 HERTEL AVE.
Lab Number: L1833627
Project Number: 0437-017-001-005-002
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-02
Client ID: MA-SW-3 2.5'
Sample Location: BUFFALO
Date Collected: 08/24/18 08:36
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	15700		mg/kg	11.3	3.05	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Antimony, Total	1.39	J	mg/kg	5.64	0.429	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Arsenic, Total	2.86		mg/kg	1.13	0.235	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Barium, Total	140		mg/kg	1.13	0.196	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Beryllium, Total	0.756		mg/kg	0.564	0.037	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Cadmium, Total	0.508	J	mg/kg	1.13	0.111	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Calcium, Total	4220		mg/kg	11.3	3.95	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Chromium, Total	21.5		mg/kg	1.13	0.108	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Cobalt, Total	9.92		mg/kg	2.26	0.187	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Copper, Total	21.3		mg/kg	1.13	0.291	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Iron, Total	24300		mg/kg	5.64	1.02	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Lead, Total	12.0		mg/kg	5.64	0.303	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Magnesium, Total	5450		mg/kg	11.3	1.74	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Manganese, Total	298		mg/kg	1.13	0.180	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Mercury, Total	0.027	J	mg/kg	0.093	0.020	1	08/28/18 10:20	08/28/18 15:52	EPA 7471B	1,7471B	MG
Nickel, Total	23.7		mg/kg	2.82	0.273	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Potassium, Total	1160		mg/kg	282	16.2	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	2.26	0.291	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	1.13	0.320	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Sodium, Total	687		mg/kg	226	3.56	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Thallium, Total	0.734	J	mg/kg	2.26	0.356	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Vanadium, Total	26.8		mg/kg	1.13	0.229	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB
Zinc, Total	78.9		mg/kg	5.64	0.331	2	08/28/18 16:50	08/28/18 21:57	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-05 Date Collected: 08/24/18 12:00

Client ID: PUMP ISLAND SW-7 8.0' Date Received: 08/24/18

Sample Location: BUFFALO 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	9490		mg/kg	9.14	2.47	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Antimony, Total	1.49	J	mg/kg	4.57	0.347	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Arsenic, Total	3.11		mg/kg	0.914	0.190	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Barium, Total	48.5		mg/kg	0.914	0.159	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Beryllium, Total	0.448	J	mg/kg	0.457	0.030	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Cadmium, Total	0.475	J	mg/kg	0.914	0.090	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Calcium, Total	57000		mg/kg	9.14	3.20	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Chromium, Total	15.1		mg/kg	0.914	0.088	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Cobalt, Total	5.94		mg/kg	1.83	0.152	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Copper, Total	16.6		mg/kg	0.914	0.236	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Iron, Total	16600		mg/kg	4.57	0.825	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Lead, Total	9.83		mg/kg	4.57	0.245	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Magnesium, Total	17300		mg/kg	9.14	1.41	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Manganese, Total	401		mg/kg	0.914	0.145	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.074	0.016	1	08/28/18 10:20	08/28/18 15:54	EPA 7471B	1,7471B	MG
Nickel, Total	16.0		mg/kg	2.28	0.221	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Potassium, Total	1640		mg/kg	228	13.2	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Selenium, Total	0.375	J	mg/kg	1.83	0.236	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.914	0.259	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Sodium, Total	320		mg/kg	183	2.88	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.83	0.288	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Vanadium, Total	20.1		mg/kg	0.914	0.186	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB
Zinc, Total	90.8		mg/kg	4.57	0.268	2	08/28/18 16:50	08/28/18 22:22	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1833627
Project Number: 0437-017-001-005-002
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-06
Client ID: PUMP ISLAND SW-8 8.0'
Sample Location: BUFFALO
Date Collected: 08/24/18 12:07
Date Received: 08/24/18
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	9070		mg/kg	8.91	2.41	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Antimony, Total	1.35	J	mg/kg	4.46	0.339	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Arsenic, Total	2.81		mg/kg	0.891	0.185	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Barium, Total	139		mg/kg	0.891	0.155	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Beryllium, Total	0.419	J	mg/kg	0.446	0.029	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Cadmium, Total	0.481	J	mg/kg	0.891	0.087	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Calcium, Total	54600		mg/kg	8.91	3.12	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Chromium, Total	15.5		mg/kg	0.891	0.086	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Cobalt, Total	8.06		mg/kg	1.78	0.148	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Copper, Total	21.2		mg/kg	0.891	0.230	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Iron, Total	17400		mg/kg	4.46	0.805	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Lead, Total	11.7		mg/kg	4.46	0.239	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Magnesium, Total	18600		mg/kg	8.91	1.37	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Manganese, Total	441		mg/kg	0.891	0.142	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.075	0.016	1	08/28/18 10:20	08/28/18 15:56	EPA 7471B	1,7471B	MG
Nickel, Total	18.1		mg/kg	2.23	0.216	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Potassium, Total	1580		mg/kg	223	12.8	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Selenium, Total	0.365	J	mg/kg	1.78	0.230	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.891	0.252	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Sodium, Total	274		mg/kg	178	2.81	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.78	0.281	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Vanadium, Total	22.0		mg/kg	0.891	0.181	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB
Zinc, Total	64.5		mg/kg	4.46	0.261	2	08/28/18 16:50	08/28/18 22:27	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1833627
Project Number: 0437-017-001-005-002
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-07
Client ID: PUMP ISLAND SW-9 5.5'
Sample Location: BUFFALO
Date Collected: 08/24/18 12:15
Date Received: 08/24/18
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	10400		mg/kg	9.68	2.61	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Antimony, Total	1.38	J	mg/kg	4.84	0.368	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Arsenic, Total	1.68		mg/kg	0.968	0.201	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Barium, Total	95.5		mg/kg	0.968	0.168	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Beryllium, Total	0.474	J	mg/kg	0.484	0.032	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Cadmium, Total	0.416	J	mg/kg	0.968	0.095	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Calcium, Total	56100		mg/kg	9.68	3.39	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Chromium, Total	17.9		mg/kg	0.968	0.093	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Cobalt, Total	8.16		mg/kg	1.94	0.161	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Copper, Total	17.8		mg/kg	0.968	0.250	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Iron, Total	15800		mg/kg	4.84	0.874	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Lead, Total	10.2		mg/kg	4.84	0.259	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Magnesium, Total	16000		mg/kg	9.68	1.49	2	08/28/18 16:50	08/29/18 08:11	EPA 3050B	1,6010D	PE
Manganese, Total	463		mg/kg	0.968	0.154	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.078	0.016	1	08/28/18 10:20	08/28/18 15:58	EPA 7471B	1,7471B	MG
Nickel, Total	18.4		mg/kg	2.42	0.234	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Potassium, Total	1460		mg/kg	242	13.9	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.94	0.250	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.968	0.274	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Sodium, Total	385		mg/kg	194	3.05	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.94	0.305	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Vanadium, Total	21.0		mg/kg	0.968	0.196	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB
Zinc, Total	61.6		mg/kg	4.84	0.284	2	08/28/18 16:50	08/28/18 22:47	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-08 Date Collected: 08/24/18 15:20

Client ID: PUMP ISLAND SW-10 5.0' Date Received: 08/24/18

Sample Location: BUFFALO 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	9820		mg/kg	8.98	2.42	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Antimony, Total	1.35	J	mg/kg	4.49	0.341	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Arsenic, Total	3.35		mg/kg	0.898	0.187	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Barium, Total	85.9		mg/kg	0.898	0.156	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Beryllium, Total	0.494		mg/kg	0.449	0.030	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Cadmium, Total	0.476	J	mg/kg	0.898	0.088	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Calcium, Total	54000		mg/kg	8.98	3.14	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Chromium, Total	15.5		mg/kg	0.898	0.086	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Cobalt, Total	7.44		mg/kg	1.80	0.149	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Copper, Total	20.6		mg/kg	0.898	0.232	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Iron, Total	19000		mg/kg	4.49	0.811	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Lead, Total	9.60		mg/kg	4.49	0.241	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Magnesium, Total	15600		mg/kg	8.98	1.38	2	08/28/18 16:50	08/29/18 08:17	EPA 3050B	1,6010D	PE
Manganese, Total	419		mg/kg	0.898	0.143	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Mercury, Total	0.017	J	mg/kg	0.071	0.015	1	08/28/18 10:20	08/28/18 16:00	EPA 7471B	1,7471B	MG
Nickel, Total	17.2		mg/kg	2.24	0.217	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Potassium, Total	1350		mg/kg	224	12.9	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Selenium, Total	0.350	J	mg/kg	1.80	0.232	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.898	0.254	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Sodium, Total	381		mg/kg	180	2.83	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.80	0.283	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Vanadium, Total	24.0		mg/kg	0.898	0.182	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB
Zinc, Total	57.1		mg/kg	4.49	0.263	2	08/28/18 16:50	08/28/18 22:52	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1833627
Project Number: 0437-017-001-005-002
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-10
Client ID: PUMP ISLAND B-3 8.0
Sample Location: BUFFALO
Date Collected: 08/24/18 15:27
Date Received: 08/24/18
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	9770		mg/kg	8.90	2.40	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Antimony, Total	1.39	J	mg/kg	4.45	0.338	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Arsenic, Total	3.32		mg/kg	0.890	0.185	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Barium, Total	77.8		mg/kg	0.890	0.155	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Beryllium, Total	0.463		mg/kg	0.445	0.029	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Cadmium, Total	0.489	J	mg/kg	0.890	0.087	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Calcium, Total	50100		mg/kg	8.90	3.11	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Chromium, Total	15.8		mg/kg	0.890	0.085	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Cobalt, Total	9.64		mg/kg	1.78	0.148	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Copper, Total	19.2		mg/kg	0.890	0.230	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Iron, Total	18900		mg/kg	4.45	0.803	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Lead, Total	10.3		mg/kg	4.45	0.238	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Magnesium, Total	16900		mg/kg	8.90	1.37	2	08/28/18 16:50	08/29/18 08:22	EPA 3050B	1,6010D	PE
Manganese, Total	455		mg/kg	0.890	0.141	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Mercury, Total	0.018	J	mg/kg	0.072	0.015	1	08/28/18 10:20	08/28/18 16:02	EPA 7471B	1,7471B	MG
Nickel, Total	21.5		mg/kg	2.22	0.215	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Potassium, Total	1600		mg/kg	222	12.8	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Selenium, Total	0.285	J	mg/kg	1.78	0.230	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.890	0.252	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Sodium, Total	275		mg/kg	178	2.80	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.78	0.280	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Vanadium, Total	22.5		mg/kg	0.890	0.180	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB
Zinc, Total	73.7		mg/kg	4.45	0.261	2	08/28/18 16:50	08/28/18 22:58	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833627

Project Number: 0437-017-001-005-002 **Report Date:** 08/29/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,05-08,10 Batch: WG1151293-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	08/28/18 10:20	08/28/18 11:44	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,05-08,10 Batch: WG1151425-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Manganese, Total	0.092	J	mg/kg	0.400	0.064	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Potassium, Total	7.96	J	mg/kg	100	5.76	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Sodium, Total	12.8	J	mg/kg	80.0	1.26	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/28/18 16:50	08/28/18 21:47	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833627
Report Date: 08/29/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05-08,10 Batch: WG1151293-2 SRM Lot Number: D102-540								
Mercury, Total	134		-		65-134	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05-08,10 Batch: WG1151425-2 SRM Lot Number: D102-540					
Aluminum, Total	69	-	49-150	-	
Antimony, Total	187	-	1-199	-	
Arsenic, Total	99	-	83-117	-	
Barium, Total	104	-	83-118	-	
Beryllium, Total	100	-	83-116	-	
Cadmium, Total	114	-	83-118	-	
Calcium, Total	92	-	82-118	-	
Chromium, Total	97	-	83-117	-	
Cobalt, Total	97	-	84-116	-	
Copper, Total	98	-	84-116	-	
Iron, Total	81	-	61-139	-	
Lead, Total	101	-	82-118	-	
Magnesium, Total	91	-	76-124	-	
Manganese, Total	99	-	82-118	-	
Nickel, Total	99	-	83-117	-	
Potassium, Total	88	-	70-130	-	
Selenium, Total	102	-	79-121	-	
Silver, Total	95	-	80-120	-	
Sodium, Total	98	-	74-126	-	
Thallium, Total	102	-	81-119	-	
Vanadium, Total	95	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05-08,10 Batch: WG1151425-2 SRM Lot Number: D102-540					
Zinc, Total	95	-	81-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05-08,10 QC Batch ID: WG1151293-3 QC Sample: L1833762-04 Client ID: MS Sample												
Mercury, Total	0.104	0.149	0.301	**132**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

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): 02,05-08,10 QC Batch ID: WG1151425-3 QC Sample: L1833627-02 Client ID: MA-SW-3 2.5'										
Aluminum, Total	15700	232	16600	**387**	Q	-	-	75-125	-	20
Antimony, Total	1.39J	58.1	52.3	90		-	-	75-125	-	20
Arsenic, Total	2.86	13.9	16.0	94		-	-	75-125	-	20
Barium, Total	140.	232	343	87		-	-	75-125	-	20
Beryllium, Total	0.756	5.81	5.50	82		-	-	75-125	-	20
Cadmium, Total	0.508J	5.92	5.73	97		-	-	75-125	-	20
Calcium, Total	4220	1160	5000	**67**	Q	-	-	75-125	-	20
Chromium, Total	21.5	23.2	42.9	92		-	-	75-125	-	20
Cobalt, Total	9.92	58.1	57.7	82		-	-	75-125	-	20
Copper, Total	21.3	29	46.8	88		-	-	75-125	-	20
Iron, Total	24300	116	26800	**2150**	Q	-	-	75-125	-	20
Lead, Total	12.0	59.2	63.6	87		-	-	75-125	-	20
Magnesium, Total	5450	1160	6600	99		-	-	75-125	-	20
Manganese, Total	298.	58.1	505	**356**	Q	-	-	75-125	-	20
Nickel, Total	23.7	58.1	71.7	83		-	-	75-125	-	20
Potassium, Total	1160	1160	2420	108		-	-	75-125	-	20
Selenium, Total	ND	13.9	11.8	85		-	-	75-125	-	20
Silver, Total	ND	34.8	31.9	92		-	-	75-125	-	20
Sodium, Total	687.	1160	1730	90		-	-	75-125	-	20
Thallium, Total	0.734J	13.9	10.1	**72**	Q	-	-	75-125	-	20
Vanadium, Total	26.8	58.1	79.2	90		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

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): 02,05-08,10 QC Batch ID: WG1151425-3 QC Sample: L1833627-02 Client ID: MA-SW-3 2.5'									
Zinc, Total	78.9	58.1	130	88	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05-08,10 QC Batch ID: WG1151293-4 QC Sample: L1833762-04 Client ID: DUP Sample						
Mercury, Total	0.104	0.120	mg/kg	14		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05-08,10 QC Batch ID: WG1151425-4 QC Sample: L1833627-02 Client ID: MA-SW-3 2.5'						
Aluminum, Total	15700	15400	mg/kg	2		20
Antimony, Total	1.39J	1.34J	mg/kg	NC		20
Arsenic, Total	2.86	2.17	mg/kg	**27**	Q	20
Barium, Total	140.	142	mg/kg	1		20
Beryllium, Total	0.756	0.718	mg/kg	5		20
Cadmium, Total	0.508J	0.508J	mg/kg	NC		20
Calcium, Total	4220	4040	mg/kg	4		20
Chromium, Total	21.5	24.2	mg/kg	12		20
Cobalt, Total	9.92	9.98	mg/kg	1		20
Copper, Total	21.3	19.4	mg/kg	9		20
Iron, Total	24300	23000	mg/kg	5		20
Lead, Total	12.0	12.1	mg/kg	1		20
Magnesium, Total	5450	5420	mg/kg	1		20
Manganese, Total	298.	401	mg/kg	**29**	Q	20
Nickel, Total	23.7	23.8	mg/kg	0		20
Potassium, Total	1160	1090	mg/kg	6		20
Selenium, Total	ND	0.298J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	687.	674	mg/kg	2		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05-08,10 QC Batch ID: WG1151425-4 QC Sample: L1833627-02 Client ID: MA-SW-3 2.5'					
Thallium, Total	0.734J	ND	mg/kg	NC	20
Vanadium, Total	26.8	25.2	mg/kg	6	20
Zinc, Total	78.9	77.1	mg/kg	2	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-01
Client ID: HL-1 B-1 11'
Sample Location: BUFFALO

Date Collected: 08/24/18 14:41
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-02
Client ID: MA-SW-3 2.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 08:36
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.6		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-03
Client ID: PUMP ISLAND SW-2R 5.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 15:00
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-04
Client ID: PUMP ISLAND SW-3R 5.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 15:06
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-05
Client ID: PUMP ISLAND SW-7 8.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 12:00
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-06
Client ID: PUMP ISLAND SW-8 8.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 12:07
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-07
Client ID: PUMP ISLAND SW-9 5.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 12:15
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.7		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-08
Client ID: PUMP ISLAND SW-10 5.0'
Sample Location: BUFFALO

Date Collected: 08/24/18 15:20
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-09
Client ID: UST-1 SW-6 (10-11')
Sample Location: BUFFALO

Date Collected: 08/24/18 08:30
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-10
Client ID: PUMP ISLAND B-3 8.0
Sample Location: BUFFALO

Date Collected: 08/24/18 15:27
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-11
Client ID: UST-2 SW-2 3.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 08:10
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

SAMPLE RESULTS

Lab ID: L1833627-12
Client ID: UST-2 SW-3 3.5'
Sample Location: BUFFALO

Date Collected: 08/24/18 08:19
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	08/25/18 08:50	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833627

Report Date: 08/29/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1150544-1 QC Sample: L1833627-01 Client ID: HL-1 B-1 11'						
Solids, Total	86.5	84.8	%	2		20

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

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(*)
L1833627-01A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-01B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-01C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-01D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-01X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-01Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-01Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-02A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-02B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-02C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-02D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-02E	Glass 60ml unpreserved split	A	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833627-02X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-02Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-02Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-03A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-03B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-03C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-03D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		TS(7)
L1833627-03X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-03Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833627-03Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-04A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-04B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-04C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-04D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		TS(7)
L1833627-04X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-04Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-04Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-05A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-05B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-05C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-05D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-05E	Glass 60ml unpreserved split	A	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833627-05X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-05Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-05Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-06A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-06B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-06C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-06D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-06E	Glass 60ml unpreserved split	A	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833627-06X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-06Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-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(*)
L1833627-06Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-07A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-07B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-07C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-07D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-07E	Glass 60ml unpreserved split	A	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833627-07X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-07Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-07Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-08A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-08B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-08C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-08D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-08E	Glass 60ml unpreserved split	A	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833627-08X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-08Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-08Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-09A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-09B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-09C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-09D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-09X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-09Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833627-09Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-10A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-10B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-10C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-10D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-10E	Glass 60ml unpreserved split	A	NA		3.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833627-10X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-10Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-10Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-11A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-11B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-11C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-11D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-11X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-11Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-11Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-12A	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-12B	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-12C	5 gram Encore Sampler	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-12D	Glass 250ml/8oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833627-12X	Vial MeOH preserved split	A	NA		3.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1833627-12Y	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)
L1833627-12Z	Vial Water preserved split	A	NA		3.7	Y	Absent	25-AUG-18 08:28	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833627
Project Number:	0437-017-001-005-002	**Report Date:**	08/29/18

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).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833627
Project Number:	0437-017-001-005-002	**Report Date:**	08/29/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833627
Project Number:	0437-017-001-005-002	**Report Date:**	08/29/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 8/25/18

ALPHA Job #: L1833627

Client Information

Client: Benchmark Env
Address: 2558 Hamburg Turnpike Lackawanna NY 14218
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: TBehrendt@Tunkerllc.com

Project Information

Project Name: 1585 Hertel Ave
Project Location: Buffalo
Project #: 0437-017-001-005-002
(Use Project name as Project #) ☒
Project Manager: Chris Borom
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3D

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAT B

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

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	Total Solids	8260 +TICs VOC	Part 375 SVOC	TAL METALS	Total Bottle	Sample Specific Comments
33627-01	HL-1 B-1 11'	8/24/18	1441	Soil	TAB		X	X		4	
-02	MA-SW-3 2.5'		836				X	X	X	4	
-03	Pump Island SW-2R 5.5'		1500			X	X			4	
-04	Pump Island SW-3R 5.0'		1506			X	X			4	
-05	Pump Island SW-7 8.0'		1200				X	X	X	4	
-06	Pump Island SW-8 8.0'		1207				X	X	X	4	
-07	Pump Island SW-9 5.5'		1215				X	X	X	4	
-08	Pump Island SW-10 5.0'		1520				X	X	X	4	
-09	UST-1 SW-6 (10-11)'		830				X	X		4	
-10	Pump Island B3 8.0		1527				X	X	X	4	

Container Type: A A A A
Preservative: P E 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
[illegible]	8/24/18 16:29	Audrey Tilley AAL	8/24/18 16:30
Audrey Tilley AAL	8/24/18 17:00	Wendy Mahoney	8/25/18 1:00

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)

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 2 of 2

Date Rec'd in Lab: 8/25/18

ALPHA Job #: L1833627

Client Information
Client: Benchmark Eng
Address: 2558 Hamburg Tpke
Lackawanna NY 14218
Phone: (716) 515-5358
Fax: 856-0583
Email: TBetrent@Tublle.com

Project Information
Project Name: 1585 Hertel Ave
Project Location: Buffalo
Project #: 0437-017-001-005-002
(Use Project name as Project #) ☒
Project Manager: Chris Boron
ALPHAQuote #:

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date:
of Days: 3DAY

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:
CAT B

Please specify Metals or TAL.

ANALYSIS
TCL+CP-51 VOC 8260
Part 375 SVOC

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	TCL+CP-51 VOC 8260	Part 375 SVOC	Sample Specific Comments	Total Bottle
33627-11	UST-2 SW-2 3.5'	8/24/18	810	Soil	TMB	X	X		
-12	UST-2 SW-3 3.5'	1	819	1	1	X	X		

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

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

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

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/24/18 1629	Audrey Tilley AAL	8/24/18 16:30
Audrey Tilley AAL	8/24/18 17:00	Wendy Mahoney	8/25/18 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)

ANALYTICAL REPORT

Lab Number:	L1833792
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-005-002
Report Date:	08/30/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833792-01	MA SW-4 2.5'	SOIL	BUFFALO, NY	08/27/18 10:05	08/27/18
L1833792-02	MA SW-5 2.5'	SOIL	BUFFALO, NY	08/27/18 10:50	08/27/18
L1833792-03	MA SW-6 2.5'	SOIL	BUFFALO, NY	08/27/18 10:46	08/27/18
L1833792-04	BLIND DUP #2	SOIL	BUFFALO, NY	08/27/18 12:00	08/27/18
L1833792-05	MA SW-7	SOIL	BUFFALO, NY	08/27/18 10:50	08/27/18
L1833792-06	MA B-1 3.0'	SOIL	BUFFALO, NY	08/27/18 11:34	08/27/18
L1833792-07	MA B-2 3.0'	SOIL	BUFFALO, NY	08/27/18 11:39	08/27/18
L1833792-08	MA B-3 4.0'	SOIL	BUFFALO, NY	08/27/18 11:44	08/27/18
L1833792-09	HLA-SW-1 8.0'	SOIL	BUFFALO, NY	08/27/18 15:20	08/27/18
L1833792-10	HLA-SW-2 8.0'	SOIL	BUFFALO, NY	08/27/18 15:24	08/27/18
L1833792-11	HLA-SW-3 8.0'	SOIL	BUFFALO, NY	08/27/18 15:29	08/27/18
L1833792-12	HLA-SW-4 8.0'	SOIL	BUFFALO, NY	08/27/18 15:34	08/27/18
L1833792-13	UST-3 SW-17.5	SOIL	BUFFALO, NY	08/27/18 14:29	08/27/18
L1833792-14	UST-3 SW-2 7.0	SOIL	BUFFALO, NY	08/27/18 14:14	08/27/18
L1833792-15	BLIND DUP #3	SOIL	BUFFALO, NY	08/27/18 16:00	08/27/18
L1833792-16	UST-3 SW-3 7.0	SOIL	BUFFALO, NY	08/27/18 14:24	08/27/18
L1833792-17	UST-3 SW-4 7.0	SOIL	BUFFALO, NY	08/27/18 14:08	08/27/18
L1833792-18	UST-3 B-1 9.0'	SOIL	BUFFALO, NY	08/27/18 00:00	08/27/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

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: 1585 HERTEL AVE. **Lab Number:** L1833792
Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Case Narrative (continued)

Report Submission

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

Sample Receipt

L1833792-02: The collection date and time on the chain of custody was 27-AUG-18 10:50; however, the collection date/time on the container label was 27-AUG-18 10:10. At the client's request, the collection date/time is reported as 27-AUG-18 10:50.

The analyses performed were specified by the client.

Total Metals

L1833792-01 through -08: 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.

The WG1151613-3/-4 MS/MSD recoveries, performed on L1833792-05, are outside the acceptance criteria for mercury (174%/179%). A post digestion spike was performed and was within acceptance criteria.

The WG1152099-3/-4 MS/MSD recoveries for aluminum (1220%/1010%), iron (2960%/5770%), and manganese (135%/365%), performed on L1833792-05, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1152099-4 MSD recovery, performed on L1833792-05, is outside the acceptance criteria for lead (72%). A post digestion spike was performed and was within acceptance criteria.

The WG1152099-3/-4 MS/MSD recoveries, performed on L1833792-05, are outside the acceptance criteria for magnesium (195%/131%). A post digestion spike was performed and yielded an unacceptable recovery of 79%. The serial dilution recovery was acceptable; therefore, the matrix test passed for the sample matrix.

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

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 08/30/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-01
Client ID: MA SW-4 2.5'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:05
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:05
Analyst: JC
Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.0	4.1	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.26	1
Chloroform	ND		ug/kg	2.7	0.25	1
Carbon tetrachloride	ND		ug/kg	1.8	0.42	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.22	1
Dibromochloromethane	ND		ug/kg	1.8	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.48	1
Tetrachloroethene	ND		ug/kg	0.90	0.35	1
Chlorobenzene	ND		ug/kg	0.90	0.23	1
Trichlorofluoromethane	ND		ug/kg	7.2	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.46	1
1,1,1-Trichloroethane	ND		ug/kg	0.90	0.30	1
Bromodichloromethane	ND		ug/kg	0.90	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.49	1
cis-1,3-Dichloropropene	ND		ug/kg	0.90	0.28	1
Bromoform	ND		ug/kg	7.2	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.90	0.30	1
Benzene	ND		ug/kg	0.90	0.30	1
Toluene	ND		ug/kg	1.8	0.98	1
Ethylbenzene	ND		ug/kg	1.8	0.25	1
Chloromethane	ND		ug/kg	7.2	1.7	1
Bromomethane	ND		ug/kg	3.6	1.0	1
Vinyl chloride	ND		ug/kg	1.8	0.60	1
Chloroethane	ND		ug/kg	3.6	0.82	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.43	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.25	1
Trichloroethene	ND		ug/kg	0.90	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	0.26	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-01 Date Collected: 08/27/18 10:05

Client ID: MA SW-4 2.5' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.6	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	0.31	1
Methyl tert butyl ether	ND		ug/kg	3.6	0.36	1
p/m-Xylene	ND		ug/kg	3.6	1.0	1
o-Xylene	ND		ug/kg	1.8	0.52	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.32	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	18	1.6	1
Acetone	13	J	ug/kg	18	8.7	1
Carbon disulfide	ND		ug/kg	18	8.2	1
2-Butanone	ND		ug/kg	18	4.0	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.3	1
2-Hexanone	ND		ug/kg	18	2.1	1
Bromochloromethane	ND		ug/kg	3.6	0.37	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.50	1
n-Butylbenzene	ND		ug/kg	1.8	0.30	1
sec-Butylbenzene	ND		ug/kg	1.8	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	1.8	1
Isopropylbenzene	ND		ug/kg	1.8	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.20	1
n-Propylbenzene	ND		ug/kg	1.8	0.31	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.6	0.58	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.6	0.49	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.6	0.35	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.6	0.60	1
Methyl Acetate	ND		ug/kg	7.2	1.7	1
Cyclohexane	ND		ug/kg	18	0.98	1
1,4-Dioxane	ND		ug/kg	180	63.	1
Freon-113	ND		ug/kg	7.2	1.2	1
Methyl cyclohexane	ND		ug/kg	7.2	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-02
Client ID: MA SW-5 2.5'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:50
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:32
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	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	0.56	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	0.65	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	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-02 Date Collected: 08/27/18 10:50

Client ID: MA SW-5 2.5' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	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
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	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	110	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	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-03
Client ID: MA SW-6 2.5'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:46
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:59
Analyst: JC
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	6.5	1
1,1-Dichloroethane	ND		ug/kg	2.8	0.41	1
Chloroform	ND		ug/kg	4.2	0.40	1
Carbon tetrachloride	ND		ug/kg	2.8	0.65	1
1,2-Dichloropropane	ND		ug/kg	2.8	0.35	1
Dibromochloromethane	ND		ug/kg	2.8	0.40	1
1,1,2-Trichloroethane	ND		ug/kg	2.8	0.76	1
Tetrachloroethene	1.2	J	ug/kg	1.4	0.55	1
Chlorobenzene	ND		ug/kg	1.4	0.36	1
Trichlorofluoromethane	ND		ug/kg	11	2.0	1
1,2-Dichloroethane	ND		ug/kg	2.8	0.73	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.47	1
Bromodichloromethane	ND		ug/kg	1.4	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	2.8	0.77	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.45	1
Bromoform	ND		ug/kg	11	0.70	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.47	1
Benzene	ND		ug/kg	1.4	0.47	1
Toluene	ND		ug/kg	2.8	1.5	1
Ethylbenzene	ND		ug/kg	2.8	0.40	1
Chloromethane	ND		ug/kg	11	2.6	1
Bromomethane	ND		ug/kg	5.7	1.6	1
Vinyl chloride	ND		ug/kg	2.8	0.95	1
Chloroethane	ND		ug/kg	5.7	1.3	1
1,1-Dichloroethene	ND		ug/kg	2.8	0.67	1
trans-1,2-Dichloroethene	ND		ug/kg	4.2	0.39	1
Trichloroethene	ND		ug/kg	1.4	0.39	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.41	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-03 Date Collected: 08/27/18 10:46

Client ID: MA SW-6 2.5' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.42	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.48	1
Methyl tert butyl ether	ND		ug/kg	5.7	0.57	1
p/m-Xylene	ND		ug/kg	5.7	1.6	1
o-Xylene	ND		ug/kg	2.8	0.82	1
cis-1,2-Dichloroethene	ND		ug/kg	2.8	0.50	1
Styrene	ND		ug/kg	2.8	0.55	1
Dichlorodifluoromethane	ND		ug/kg	28	2.6	1
Acetone	ND		ug/kg	28	14.	1
Carbon disulfide	ND		ug/kg	28	13.	1
2-Butanone	ND		ug/kg	28	6.3	1
4-Methyl-2-pentanone	ND		ug/kg	28	3.6	1
2-Hexanone	ND		ug/kg	28	3.3	1
Bromochloromethane	ND		ug/kg	5.7	0.58	1
1,2-Dibromoethane	ND		ug/kg	2.8	0.79	1
n-Butylbenzene	ND		ug/kg	2.8	0.47	1
sec-Butylbenzene	ND		ug/kg	2.8	0.41	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.5	2.8	1
Isopropylbenzene	ND		ug/kg	2.8	0.31	1
p-Isopropyltoluene	ND		ug/kg	2.8	0.31	1
n-Propylbenzene	ND		ug/kg	2.8	0.48	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.91	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.77	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.55	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.94	1
Methyl Acetate	ND		ug/kg	11	2.7	1
Cyclohexane	ND		ug/kg	28	1.5	1
1,4-Dioxane	ND		ug/kg	280	99.	1
Freon-113	ND		ug/kg	11	2.0	1
Methyl cyclohexane	ND		ug/kg	11	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	105		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-04
Client ID: BLIND DUP #2
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 12:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 22:25
Analyst: JC
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.70	0.28	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.98	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.24	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.82	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-04 Date Collected: 08/27/18 12:00

Client ID: BLIND DUP #2 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.79	1
o-Xylene	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.8	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
Methyl Acetate	ND		ug/kg	5.6	1.3	1
Cyclohexane	ND		ug/kg	14	0.77	1
1,4-Dioxane	ND		ug/kg	140	49.	1
Freon-113	ND		ug/kg	5.6	0.98	1
Methyl cyclohexane	ND		ug/kg	5.6	0.85	1

Tentatively Identified Compounds				
Total TIC Compounds	8.00	J	ug/kg	1
Unknown	2.92	J	ug/kg	1
Cyclotrisiloxane, Hexamethyl-	5.08	NJ	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-04 Date Collected: 08/27/18 12:00

Client ID: BLIND DUP #2 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-05
Client ID: MA SW-7
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:50
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 06:12
Analyst: JC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	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	0.34	1
Tetrachloroethene	ND		ug/kg	0.65	0.25	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.21	1
Benzene	ND		ug/kg	0.65	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-05 Date Collected: 08/27/18 10:50

Client ID: MA SW-7 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	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	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	7.5	J	ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
Methyl Acetate	ND		ug/kg	5.2	1.2	1
Cyclohexane	ND		ug/kg	13	0.70	1
1,4-Dioxane	ND		ug/kg	130	45.	1
Freon-113	ND		ug/kg	5.2	0.90	1
Methyl cyclohexane	ND		ug/kg	5.2	0.78	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-05 Date Collected: 08/27/18 10:50

Client ID: MA SW-7 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	17.4	J	ug/kg			1
Unknown	3.56	J	ug/kg			1
Unknown Alkane	7.42	J	ug/kg			1
Unknown Alkane	2.82	J	ug/kg			1
Unknown	3.61	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-06
Client ID: MA B-1 3.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 11:34
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 22:52
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	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	3.8	0.66	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	3.8	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	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.94	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	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	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-06 Date Collected: 08/27/18 11:34

Client ID: MA B-1 3.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.53	1
o-Xylene	ND		ug/kg	0.94	0.28	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
Bromochloromethane	ND		ug/kg	1.9	0.19	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
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
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.8	0.90	1
Cyclohexane	ND		ug/kg	9.4	0.51	1
1,4-Dioxane	ND		ug/kg	94	33.	1
Freon-113	ND		ug/kg	3.8	0.65	1
Methyl cyclohexane	ND		ug/kg	3.8	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-07
Client ID: MA B-2 3.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 11:39
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 23:18
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-07 Date Collected: 08/27/18 11:39

Client ID: MA B-2 3.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	44		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	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	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	100	37.	1
Freon-113	ND		ug/kg	4.2	0.73	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-08
Client ID: MA B-3 4.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 11:44
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 23:45
Analyst: JC
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.65	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: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-08 Date Collected: 08/27/18 11:44

Client ID: MA B-3 4.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.35	J	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	6.6	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
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	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	110	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	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-09
Client ID: HLA-SW-1 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:20
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 00:11
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	7.3	J	ug/kg	7.5	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.75	0.29	1
Chlorobenzene	ND		ug/kg	0.75	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.25	1
Bromodichloromethane	ND		ug/kg	0.75	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.25	1
Benzene	ND		ug/kg	0.75	0.25	1
Toluene	ND		ug/kg	1.5	0.82	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.87	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1
Trichloroethene	ND		ug/kg	0.75	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-09 Date Collected: 08/27/18 15:20

Client ID: HLA-SW-1 8.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.84	1
o-Xylene	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	58		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.8	1
2-Butanone	ND		ug/kg	15	3.3	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
Methyl Acetate	ND		ug/kg	6.0	1.4	1
Cyclohexane	ND		ug/kg	15	0.82	1
1,4-Dioxane	ND		ug/kg	150	53.	1
Freon-113	ND		ug/kg	6.0	1.0	1
Methyl cyclohexane	ND		ug/kg	6.0	0.90	1

Tentatively Identified Compounds				
Total TIC Compounds	8.83	J	ug/kg	1
Cyclotrisiloxane, Hexamethyl-	5.15	NJ	ug/kg	1
Unknown Alkane	3.68	J	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-09 Date Collected: 08/27/18 15:20

Client ID: HLA-SW-1 8.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-10
Client ID: HLA-SW-2 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:24
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 00:14
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	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	0.13	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	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	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	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-10 Date Collected: 08/27/18 15:24

Client ID: HLA-SW-2 8.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	14		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.3	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	0.21	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	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	100	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	ND		ug/kg	4.1	0.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-11
Client ID: HLA-SW-3 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:29
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 00:42
Analyst: JC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-11 Date Collected: 08/27/18 15:29

Client ID: HLA-SW-3 8.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	8.7	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
Bromochloromethane	ND		ug/kg	2.3	0.23	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
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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
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
1,4-Dioxane	ND		ug/kg	110	40.	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	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	103		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-12
Client ID: HLA-SW-4 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:34
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 01:09
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-12 Date Collected: 08/27/18 15:34

Client ID: HLA-SW-4 8.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	0.41	J	ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	0.26	J	ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.97	1
Acetone	30		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	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	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	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
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	11	0.58	1
1,4-Dioxane	ND		ug/kg	110	37.	1
Freon-113	ND		ug/kg	4.2	0.74	1
Methyl cyclohexane	ND		ug/kg	4.2	0.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-13
Client ID: UST-3 SW-17.5
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:29
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 23:04
Analyst: NLK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.0	4.1	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.26	1
Chloroform	ND		ug/kg	2.7	0.25	1
Carbon tetrachloride	ND		ug/kg	1.8	0.42	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.22	1
Dibromochloromethane	ND		ug/kg	1.8	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.48	1
Tetrachloroethene	ND		ug/kg	0.90	0.35	1
Chlorobenzene	ND		ug/kg	0.90	0.23	1
Trichlorofluoromethane	ND		ug/kg	7.2	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.46	1
1,1,1-Trichloroethane	ND		ug/kg	0.90	0.30	1
Bromodichloromethane	ND		ug/kg	0.90	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.49	1
cis-1,3-Dichloropropene	ND		ug/kg	0.90	0.28	1
Bromoform	ND		ug/kg	7.2	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.90	0.30	1
Benzene	ND		ug/kg	0.90	0.30	1
Toluene	2.0		ug/kg	1.8	0.98	1
Ethylbenzene	ND		ug/kg	1.8	0.25	1
Chloromethane	ND		ug/kg	7.2	1.7	1
Bromomethane	ND		ug/kg	3.6	1.0	1
Vinyl chloride	ND		ug/kg	1.8	0.60	1
Chloroethane	ND		ug/kg	3.6	0.82	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.43	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.25	1
Trichloroethene	ND		ug/kg	0.90	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	0.26	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-13 Date Collected: 08/27/18 14:29

Client ID: UST-3 SW-17.5 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.6	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	0.31	1
Methyl tert butyl ether	ND		ug/kg	3.6	0.36	1
p/m-Xylene	ND		ug/kg	3.6	1.0	1
o-Xylene	ND		ug/kg	1.8	0.52	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.32	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	18	1.6	1
Acetone	ND		ug/kg	18	8.7	1
Carbon disulfide	ND		ug/kg	18	8.2	1
2-Butanone	ND		ug/kg	18	4.0	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.3	1
2-Hexanone	ND		ug/kg	18	2.1	1
Bromochloromethane	ND		ug/kg	3.6	0.37	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.50	1
n-Butylbenzene	ND		ug/kg	1.8	0.30	1
sec-Butylbenzene	ND		ug/kg	1.8	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	1.8	1
Isopropylbenzene	ND		ug/kg	1.8	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.20	1
n-Propylbenzene	ND		ug/kg	1.8	0.31	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.6	0.58	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.6	0.49	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.6	0.35	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.6	0.60	1
Methyl Acetate	ND		ug/kg	7.2	1.7	1
Cyclohexane	ND		ug/kg	18	0.98	1
1,4-Dioxane	ND		ug/kg	180	63.	1
Freon-113	ND		ug/kg	7.2	1.2	1
Methyl cyclohexane	ND		ug/kg	7.2	1.1	1

Tentatively Identified Compounds				
Total TIC Compounds	6.20	J	ug/kg	1
Cyclotrisiloxane, Hexamethyl-	6.20	NJ	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-13 Date Collected: 08/27/18 14:29

Client ID: UST-3 SW-17.5 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	105		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-14
Client ID: UST-3 SW-2 7.0
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:14
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 02:05
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.93	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	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	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-14 Date Collected: 08/27/18 14:14

Client ID: UST-3 SW-2 7.0 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	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	18		ug/kg	13	6.5	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	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	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.4	1.3	1
Cyclohexane	ND		ug/kg	13	0.73	1
1,4-Dioxane	ND		ug/kg	130	47.	1
Freon-113	ND		ug/kg	5.4	0.93	1
Methyl cyclohexane	ND		ug/kg	5.4	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-15
Client ID: BLIND DUP #3
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 16:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 02:33
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	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	0.56	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	0.30	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	0.18	1
Benzene	ND		ug/kg	0.56	0.18	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	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.50	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	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-15 Date Collected: 08/27/18 16:00

Client ID: BLIND DUP #3 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.63	1
o-Xylene	ND		ug/kg	1.1	0.32	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	26		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	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
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	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	110	39.	1
Freon-113	ND		ug/kg	4.5	0.78	1
Methyl cyclohexane	ND		ug/kg	4.5	0.68	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-15 Date Collected: 08/27/18 16:00

Client ID: BLIND DUP #3 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	38.9	J	ug/kg			1
Unknown	4.14	J	ug/kg			1
Unknown Alkane	3.21	J	ug/kg			1
Unknown Alkane	3.68	J	ug/kg			1
Unknown Alkane	12.2	J	ug/kg			1
Unknown	4.63	J	ug/kg			1
Unknown	2.97	J	ug/kg			1
Unknown	8.03	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	103		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-16
Client ID: UST-3 SW-3 7.0
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:24
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 03:01
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.2	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.72	0.28	1
Chlorobenzene	ND		ug/kg	0.72	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.8	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	0.24	1
Bromodichloromethane	ND		ug/kg	0.72	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	0.23	1
Bromoform	ND		ug/kg	5.8	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	0.24	1
Benzene	ND		ug/kg	0.72	0.24	1
Toluene	ND		ug/kg	1.4	0.78	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.8	1.3	1
Bromomethane	ND		ug/kg	2.9	0.84	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.9	0.65	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1
Trichloroethene	ND		ug/kg	0.72	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	0.21	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-16 Date Collected: 08/27/18 14:24

Client ID: UST-3 SW-3 7.0 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	0.25	1
Methyl tert butyl ether	0.72	J	ug/kg	2.9	0.29	1
p/m-Xylene	ND		ug/kg	2.9	0.81	1
o-Xylene	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	11	J	ug/kg	14	6.9	1
Carbon disulfide	ND		ug/kg	14	6.6	1
2-Butanone	ND		ug/kg	14	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.9	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.16	1
n-Propylbenzene	ND		ug/kg	1.4	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	0.39	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	0.48	1
Methyl Acetate	ND		ug/kg	5.8	1.4	1
Cyclohexane	ND		ug/kg	14	0.78	1
1,4-Dioxane	ND		ug/kg	140	50.	1
Freon-113	ND		ug/kg	5.8	1.0	1
Methyl cyclohexane	ND		ug/kg	5.8	0.87	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-17
Client ID: UST-3 SW-4 7.0
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:08
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 03:28
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.13	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	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.16	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.93	0.50	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.87	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.8	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	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-17 Date Collected: 08/27/18 14:08

Client ID: UST-3 SW-4 7.0 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	3.1		ug/kg	1.8	0.19	1
p/m-Xylene	ND		ug/kg	1.8	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	9.4		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	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
n-Butylbenzene	ND		ug/kg	0.93	0.16	1
sec-Butylbenzene	ND		ug/kg	0.93	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
n-Propylbenzene	ND		ug/kg	0.93	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
Methyl Acetate	ND		ug/kg	3.7	0.88	1
Cyclohexane	ND		ug/kg	9.3	0.50	1
1,4-Dioxane	ND		ug/kg	93	33.	1
Freon-113	ND		ug/kg	3.7	0.64	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-18
Client ID: UST-3 B-1 9.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 00:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 03:56
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		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	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		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	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	0.71		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	0.48	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: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-18 Date Collected: 08/27/18 00:00

Client ID: UST-3 B-1 9.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.48	J	ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		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	4.0	J	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
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	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
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	4.3	1.0	1
Cyclohexane	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	110	38.	1
Freon-113	ND		ug/kg	4.3	0.75	1
Methyl cyclohexane	ND		ug/kg	4.3	0.65	1

Tentatively Identified Compounds				
Total TIC Compounds	3.24	J	ug/kg	1
Unknown Alkane	3.24	J	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-18 Date Collected: 08/27/18 00:00

Client ID: UST-3 B-1 9.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:24
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,10-12,14-18 Batch: WG1151742-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:24
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,10-12,14-18 Batch: WG1151742-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:24
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,10-12,14-18 Batch: WG1151742-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:39
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06-09 Batch: WG1151744-5					
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	1.6	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: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:39
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06-09 Batch: WG1151744-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:39
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06-09 Batch: WG1151744-5					
Tentatively Identified Compounds					
Total TIC Compounds	2.97	J	ug/kg		
Cyclotrisiloxane, Hexamethyl-	2.97	NJ	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/29/18 22:38
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 13 Batch: WG1152111-5					
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	1.9	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: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/29/18 22:38
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 13 Batch: WG1152111-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/29/18 22:38
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 13 Batch: WG1152111-5					
Tentatively Identified Compounds					
Total TIC Compounds	3.87	J	ug/kg		
Cyclotrisiloxane, Hexamethyl-	3.87	NJ	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,10-12,14-18 Batch: WG1151742-3 WG1151742-4								
Methylene chloride	102		102		70-130	0		30
1,1-Dichloroethane	108		107		70-130	1		30
Chloroform	107		106		70-130	1		30
Carbon tetrachloride	111		111		70-130	0		30
1,2-Dichloropropane	109		108		70-130	1		30
Dibromochloromethane	108		108		70-130	0		30
1,1,2-Trichloroethane	109		108		70-130	1		30
Tetrachloroethene	112		110		70-130	2		30
Chlorobenzene	105		105		70-130	0		30
Trichlorofluoromethane	103		106		70-139	3		30
1,2-Dichloroethane	102		102		70-130	0		30
1,1,1-Trichloroethane	109		109		70-130	0		30
Bromodichloromethane	109		110		70-130	1		30
trans-1,3-Dichloropropene	96		96		70-130	0		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
Bromoform	93		93		70-130	0		30
1,1,2,2-Tetrachloroethane	102		102		70-130	0		30
Benzene	106		106		70-130	0		30
Toluene	105		104		70-130	1		30
Ethylbenzene	106		106		70-130	0		30
Chloromethane	114		108		52-130	5		30
Bromomethane	107		105		57-147	2		30
Vinyl chloride	107		104		67-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,10-12,14-18 Batch: WG1151742-3 WG1151742-4								
Chloroethane	91		95		50-151	4		30
1,1-Dichloroethene	103		104		65-135	1		30
trans-1,2-Dichloroethene	111		109		70-130	2		30
Trichloroethene	110		109		70-130	1		30
1,2-Dichlorobenzene	106		106		70-130	0		30
1,3-Dichlorobenzene	105		105		70-130	0		30
1,4-Dichlorobenzene	101		102		70-130	1		30
Methyl tert butyl ether	107		106		66-130	1		30
p/m-Xylene	108		108		70-130	0		30
o-Xylene	108		107		70-130	1		30
cis-1,2-Dichloroethene	109		109		70-130	0		30
Styrene	109		108		70-130	1		30
Dichlorodifluoromethane	108		106		30-146	2		30
Acetone	106		103		54-140	3		30
Carbon disulfide	98		99		59-130	1		30
2-Butanone	115		113		70-130	2		30
4-Methyl-2-pentanone	100		99		70-130	1		30
2-Hexanone	101		96		70-130	5		30
Bromochloromethane	114		112		70-130	2		30
1,2-Dibromoethane	100		99		70-130	1		30
n-Butylbenzene	107		109		70-130	2		30
sec-Butylbenzene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	97		96		68-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,10-12,14-18 Batch: WG1151742-3 WG1151742-4								
Isopropylbenzene	106		106		70-130	0		30
p-Isopropyltoluene	107		107		70-130	0		30
n-Propylbenzene	106		105		70-130	1		30
1,2,3-Trichlorobenzene	104		103		70-130	1		30
1,2,4-Trichlorobenzene	106		106		70-130	0		30
1,3,5-Trimethylbenzene	105		105		70-130	0		30
1,2,4-Trimethylbenzene	106		105		70-130	1		30
Methyl Acetate	94		92		51-146	2		30
Cyclohexane	111		110		59-142	1		30
1,4-Dioxane	114		113		65-136	1		30
Freon-113	101		100		50-139	1		30
Methyl cyclohexane	113		112		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	103		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06-09 Batch: WG1151744-3 WG1151744-4								
Methylene chloride	90		91		70-130	1		30
1,1-Dichloroethane	88		90		70-130	2		30
Chloroform	91		92		70-130	1		30
Carbon tetrachloride	94		95		70-130	1		30
1,2-Dichloropropane	91		94		70-130	3		30
Dibromochloromethane	94		96		70-130	2		30
1,1,2-Trichloroethane	97		96		70-130	1		30
Tetrachloroethene	92		91		70-130	1		30
Chlorobenzene	91		92		70-130	1		30
Trichlorofluoromethane	102		109		70-139	7		30
1,2-Dichloroethane	91		96		70-130	5		30
1,1,1-Trichloroethane	96		98		70-130	2		30
Bromodichloromethane	92		97		70-130	5		30
trans-1,3-Dichloropropene	94		95		70-130	1		30
cis-1,3-Dichloropropene	92		94		70-130	2		30
Bromoform	83		85		70-130	2		30
1,1,2,2-Tetrachloroethane	96		98		70-130	2		30
Benzene	89		90		70-130	1		30
Toluene	89		91		70-130	2		30
Ethylbenzene	90		91		70-130	1		30
Chloromethane	92		90		52-130	2		30
Bromomethane	102		106		57-147	4		30
Vinyl chloride	106		109		67-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06-09 Batch: WG1151744-3 WG1151744-4								
Chloroethane	107		112		50-151	5		30
1,1-Dichloroethene	89		89		65-135	0		30
trans-1,2-Dichloroethene	88		88		70-130	0		30
Trichloroethene	92		95		70-130	3		30
1,2-Dichlorobenzene	95		95		70-130	0		30
1,3-Dichlorobenzene	94		94		70-130	0		30
1,4-Dichlorobenzene	93		95		70-130	2		30
Methyl tert butyl ether	91		92		66-130	1		30
p/m-Xylene	90		91		70-130	1		30
o-Xylene	91		91		70-130	0		30
cis-1,2-Dichloroethene	90		91		70-130	1		30
Styrene	88		90		70-130	2		30
Dichlorodifluoromethane	98		94		30-146	4		30
Acetone	89		91		54-140	2		30
Carbon disulfide	85		87		59-130	2		30
2-Butanone	98		101		70-130	3		30
4-Methyl-2-pentanone	96		98		70-130	2		30
2-Hexanone	94		96		70-130	2		30
Bromochloromethane	88		91		70-130	3		30
1,2-Dibromoethane	95		97		70-130	2		30
n-Butylbenzene	97		99		70-130	2		30
sec-Butylbenzene	97		98		70-130	1		30
1,2-Dibromo-3-chloropropane	92		95		68-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06-09 Batch: WG1151744-3 WG1151744-4								
Isopropylbenzene	95		95		70-130	0		30
p-Isopropyltoluene	96		96		70-130	0		30
n-Propylbenzene	94		95		70-130	1		30
1,2,3-Trichlorobenzene	94		96		70-130	2		30
1,2,4-Trichlorobenzene	98		100		70-130	2		30
1,3,5-Trimethylbenzene	94		95		70-130	1		30
1,2,4-Trimethylbenzene	94		95		70-130	1		30
Methyl Acetate	94		98		51-146	4		30
Cyclohexane	89		91		59-142	2		30
1,4-Dioxane	99		103		65-136	4		30
Freon-113	92		96		50-139	4		30
Methyl cyclohexane	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		99		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 Batch: WG1152111-3 WG1152111-4								
Methylene chloride	90		92		70-130	2		30
1,1-Dichloroethane	89		93		70-130	4		30
Chloroform	93		94		70-130	1		30
Carbon tetrachloride	92		95		70-130	3		30
1,2-Dichloropropane	92		98		70-130	6		30
Dibromochloromethane	91		94		70-130	3		30
1,1,2-Trichloroethane	94		98		70-130	4		30
Tetrachloroethene	87		87		70-130	0		30
Chlorobenzene	90		92		70-130	2		30
Trichlorofluoromethane	90		98		70-139	9		30
1,2-Dichloroethane	94		98		70-130	4		30
1,1,1-Trichloroethane	97		98		70-130	1		30
Bromodichloromethane	93		100		70-130	7		30
trans-1,3-Dichloropropene	93		94		70-130	1		30
cis-1,3-Dichloropropene	94		99		70-130	5		30
Bromoform	95		85		70-130	11		30
1,1,2,2-Tetrachloroethane	103		99		70-130	4		30
Benzene	90		92		70-130	2		30
Toluene	89		90		70-130	1		30
Ethylbenzene	88		90		70-130	2		30
Chloromethane	96		93		52-130	3		30
Bromomethane	112		119		57-147	6		30
Vinyl chloride	98		106		67-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 Batch: WG1152111-3 WG1152111-4								
Chloroethane	100		107		50-151	7		30
1,1-Dichloroethene	84		89		65-135	6		30
trans-1,2-Dichloroethene	87		90		70-130	3		30
Trichloroethene	94		96		70-130	2		30
1,2-Dichlorobenzene	94		96		70-130	2		30
1,3-Dichlorobenzene	94		96		70-130	2		30
1,4-Dichlorobenzene	95		96		70-130	1		30
Methyl tert butyl ether	91		94		66-130	3		30
p/m-Xylene	88		89		70-130	1		30
o-Xylene	87		90		70-130	3		30
cis-1,2-Dichloroethene	91		93		70-130	2		30
Styrene	83		88		70-130	6		30
Dichlorodifluoromethane	93		90		30-146	3		30
Acetone	92		89		54-140	3		30
Carbon disulfide	84		88		59-130	5		30
2-Butanone	103		105		70-130	2		30
4-Methyl-2-pentanone	94		92		70-130	2		30
2-Hexanone	100		100		70-130	0		30
Bromochloromethane	91		91		70-130	0		30
1,2-Dibromoethane	94		95		70-130	1		30
n-Butylbenzene	98		96		70-130	2		30
sec-Butylbenzene	96		95		70-130	1		30
1,2-Dibromo-3-chloropropane	91		93		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 Batch: WG1152111-3 WG1152111-4								
Isopropylbenzene	100		95		70-130	5		30
p-Isopropyltoluene	94		95		70-130	1		30
n-Propylbenzene	98		94		70-130	4		30
1,2,3-Trichlorobenzene	91		96		70-130	5		30
1,2,4-Trichlorobenzene	93		99		70-130	6		30
1,3,5-Trimethylbenzene	98		95		70-130	3		30
1,2,4-Trimethylbenzene	96		95		70-130	1		30
Methyl Acetate	96		98		51-146	2		30
Cyclohexane	88		90		59-142	2		30
1,4-Dioxane	85		97		65-136	13		30
Freon-113	86		90		50-139	5		30
Methyl cyclohexane	89		92		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	103		103		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,10-12,14-18 QC Batch ID: WG1151742-6 WG1151742-7 QC Sample: L1833792-05 Client ID: MA SW-7												
Methylene chloride	ND	118	100	87		89	88		70-130	14		30
1,1-Dichloroethane	ND	118	120	97		100	98		70-130	14		30
Chloroform	ND	118	110	90		91	89		70-130	16		30
Carbon tetrachloride	ND	118	120	102		110	103		70-130	14		30
1,2-Dichloropropane	ND	118	110	89		90	88		70-130	16		30
Dibromochloromethane	ND	118	95	80		79	77		70-130	19		30
1,1,2-Trichloroethane	ND	118	96	81		81	80		70-130	16		30
Tetrachloroethene	ND	118	85	72		67	**66**	Q	70-130	23		30
Chlorobenzene	ND	118	74	**62**	Q	57	**56**	Q	70-130	26		30
Trichlorofluoromethane	ND	118	130	108		110	112		70-139	12		30
1,2-Dichloroethane	ND	118	96	82		82	80		70-130	16		30
1,1,1-Trichloroethane	ND	118	120	100		100	100		70-130	15		30
Bromodichloromethane	ND	118	100	88		88	87		70-130	17		30
trans-1,3-Dichloropropene	ND	118	79	**67**	Q	65	**64**	Q	70-130	19		30
cis-1,3-Dichloropropene	ND	118	96	82		79	78		70-130	20		30
Bromoform	ND	118	78	**66**	Q	63	**62**	Q	70-130	21		30
1,1,2,2-Tetrachloroethane	ND	118	84	71		69	**68**	Q	70-130	20		30
Benzene	ND	118	110	89		89	87		70-130	17		30
Toluene	ND	118	88	74		71	70		70-130	21		30
Ethylbenzene	ND	118	73	**62**	Q	56	**55**	Q	70-130	27		30
Chloromethane	ND	118	110	94		100	101		52-130	7		30
Bromomethane	ND	118	110	96		99	98		57-147	13		30
Vinyl chloride	ND	118	130	113		120	116		67-130	12		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833792
Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,10-12,14-18 QC Batch ID: WG1151742-6 WG1151742-7 QC Sample: L1833792-05 Client ID: MA SW-7												
Chloroethane	ND	118	120	102		110	103		50-151	13		30
1,1-Dichloroethene	ND	118	130	107		110	108		65-135	14		30
trans-1,2-Dichloroethene	ND	118	110	97		99	97		70-130	15		30
Trichloroethene	ND	118	100	86		84	83		70-130	19		30
1,2-Dichlorobenzene	ND	118	52	**44**	Q	38	**37**	Q	70-130	**31**	Q	30
1,3-Dichlorobenzene	ND	118	48	**41**	Q	35	**34**	Q	70-130	**33**	Q	30
1,4-Dichlorobenzene	ND	118	45	**38**	Q	32	**32**	Q	70-130	**32**	Q	30
Methyl tert butyl ether	ND	118	100	86		88	87		66-130	13		30
p/m-Xylene	ND	236	140	**59**	Q	110	**52**	Q	70-130	28		30
o-Xylene	ND	236	140	**61**	Q	110	**54**	Q	70-130	28		30
cis-1,2-Dichloroethene	ND	118	110	91		92	90		70-130	15		30
Styrene	ND	236	140	**58**	Q	100	**51**	Q	70-130	28		30
Dichlorodifluoromethane	ND	118	130	113		120	120		30-146	9		30
Acetone	7.5J	118	82	69		70	69		54-140	15		30
Carbon disulfide	ND	118	110	92		95	93		59-130	14		30
2-Butanone	ND	118	81	**69**	Q	69	**68**	Q	70-130	17		30
4-Methyl-2-pentanone	ND	118	87	74		76	75		70-130	13		30
2-Hexanone	ND	118	79	**67**	Q	67	**66**	Q	70-130	16		30
Bromochloromethane	ND	118	100	88		89	88		70-130	16		30
1,2-Dibromoethane	ND	118	83	70		69	**68**	Q	70-130	18		30
n-Butylbenzene	ND	118	34	**29**	Q	24	**24**	Q	70-130	**33**	Q	30
sec-Butylbenzene	ND	118	47	**40**	Q	34	**34**	Q	70-130	**33**	Q	30
1,2-Dibromo-3-chloropropane	ND	118	72	**61**	Q	59	**58**	Q	68-130	20		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,10-12,14-18 QC Batch ID: WG1151742-6 WG1151742-7 QC Sample: L1833792-05 Client ID: MA SW-7												
Isopropylbenzene	ND	118	65	**55**	Q	48	**47**	Q	70-130	30		30
p-Isopropyltoluene	ND	118	43	**36**	Q	30	**30**	Q	70-130	**34**	Q	30
n-Propylbenzene	ND	118	53	**45**	Q	38	**38**	Q	70-130	**33**	Q	30
1,2,3-Trichlorobenzene	ND	118	33	**28**	Q	26	**25**	Q	70-130	24		30
1,2,4-Trichlorobenzene	ND	118	33	**28**	Q	25	**24**	Q	70-130	27		30
1,3,5-Trimethylbenzene	ND	118	52	**44**	Q	38	**37**	Q	70-130	**33**	Q	30
1,2,4-Trimethylbenzene	ND	118	51	**43**	Q	36	**36**	Q	70-130	**34**	Q	30
Methyl Acetate	ND	118	92	78		68	67		51-146	29		30
Cyclohexane	ND	118	120	103		110	104		59-142	14		30
1,4-Dioxane	ND	5900	5400	91		4800	95		65-136	11		30
Freon-113	ND	118	130	106		110	112		50-139	9		30
Methyl cyclohexane	ND	118	110	93		95	94		70-130	15		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	105		105		70-130
Toluene-d8	98		98		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833792
Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 QC Batch ID: WG1152111-6 WG1152111-7 QC Sample: L1833792-13 Client ID: UST-3 SW-17.5												
Methylene chloride	ND	99.3	85	86		100	92		70-130	19		30
1,1-Dichloroethane	ND	99.3	91	92		110	96		70-130	16		30
Chloroform	ND	99.3	88	89		100	92		70-130	16		30
Carbon tetrachloride	ND	99.3	100	103		120	105		70-130	15		30
1,2-Dichloropropane	ND	99.3	83	84		96	85		70-130	14		30
Dibromochloromethane	ND	99.3	80	81		91	81		70-130	13		30
1,1,2-Trichloroethane	ND	99.3	77	78		90	80		70-130	15		30
Tetrachloroethene	ND	99.3	74	74		76	**67**	Q	70-130	2		30
Chlorobenzene	ND	99.3	68	**68**	Q	68	**61**	Q	70-130	1		30
Trichlorofluoromethane	ND	99.3	100	104		120	109		70-139	17		30
1,2-Dichloroethane	ND	99.3	80	81		93	83		70-130	15		30
1,1,1-Trichloroethane	ND	99.3	100	103		120	105		70-130	15		30
Bromodichloromethane	ND	99.3	83	84		96	85		70-130	14		30
trans-1,3-Dichloropropene	ND	99.3	73	74		81	72		70-130	10		30
cis-1,3-Dichloropropene	ND	99.3	78	78		86	76		70-130	10		30
Bromoform	ND	99.3	76	77		90	81		70-130	17		30
1,1,2,2-Tetrachloroethane	ND	99.3	70	70		83	74		70-130	17		30
Benzene	ND	99.3	85	85		96	85		70-130	12		30
Toluene	2.0	99.3	76	75		81	71		70-130	6		30
Ethylbenzene	ND	99.3	69	**69**	Q	65	**58**	Q	70-130	5		30
Chloromethane	ND	99.3	90	91		110	97		52-130	19		30
Bromomethane	ND	99.3	94	95		120	107		57-147	24		30
Vinyl chloride	ND	99.3	110	107		120	111		67-130	16		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 QC Batch ID: WG1152111-6 WG1152111-7 QC Sample: L1833792-13 Client ID: UST-3 SW-17.5												
Chloroethane	ND	99.3	110	109		130	114		50-151	17		30
1,1-Dichloroethene	ND	99.3	94	94		110	100		65-135	18		30
trans-1,2-Dichloroethene	ND	99.3	91	92		110	95		70-130	15		30
Trichloroethene	ND	99.3	92	92		99	89		70-130	8		30
1,2-Dichlorobenzene	ND	99.3	55	**55**	Q	56	**50**	Q	70-130	1		30
1,3-Dichlorobenzene	ND	99.3	52	**53**	Q	52	**47**	Q	70-130	0		30
1,4-Dichlorobenzene	ND	99.3	50	**50**	Q	51	**46**	Q	70-130	2		30
Methyl tert butyl ether	ND	99.3	85	86		110	94		66-130	21		30
p/m-Xylene	ND	198	130	**67**	Q	130	**56**	Q	70-130	5		30
o-Xylene	ND	198	140	**69**	Q	130	**59**	Q	70-130	4		30
cis-1,2-Dichloroethene	ND	99.3	88	88		100	91		70-130	15		30
Styrene	ND	198	130	**65**	Q	120	**55**	Q	70-130	4		30
Dichlorodifluoromethane	ND	99.3	100	105		130	113		30-146	20		30
Acetone	ND	99.3	110	112		140	127		54-140	25		30
Carbon disulfide	ND	99.3	86	87		100	91		59-130	17		30
2-Butanone	ND	99.3	88	88		100	93		70-130	17		30
4-Methyl-2-pentanone	ND	99.3	79	80		96	86		70-130	19		30
2-Hexanone	ND	99.3	79	80		95	85		70-130	18		30
Bromochloromethane	ND	99.3	84	85		99	88		70-130	16		30
1,2-Dibromoethane	ND	99.3	76	77		85	76		70-130	11		30
n-Butylbenzene	ND	99.3	45	**46**	Q	37	**33**	Q	70-130	20		30
sec-Butylbenzene	ND	99.3	60	**60**	Q	51	**46**	Q	70-130	16		30
1,2-Dibromo-3-chloropropane	ND	99.3	70	70		80	72		68-130	14		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 QC Batch ID: WG1152111-6 WG1152111-7 QC Sample: L1833792-13 Client ID: UST-3 SW-17.5												
Isopropylbenzene	ND	99.3	70	70		68	**61**	Q	70-130	3		30
p-Isopropyltoluene	ND	99.3	54	**55**	Q	46	**41**	Q	70-130	17		30
n-Propylbenzene	ND	99.3	60	**61**	Q	55	**49**	Q	70-130	9		30
1,2,3-Trichlorobenzene	ND	99.3	38	**39**	Q	35	**31**	Q	70-130	10		30
1,2,4-Trichlorobenzene	ND	99.3	38	**38**	Q	37	**33**	Q	70-130	4		30
1,3,5-Trimethylbenzene	ND	99.3	60	**61**	Q	57	**51**	Q	70-130	6		30
1,2,4-Trimethylbenzene	ND	99.3	56	**57**	Q	54	**48**	Q	70-130	4		30
Methyl Acetate	ND	99.3	94	95		110	99		51-146	16		30
Cyclohexane	ND	99.3	98	98		110	100		59-142	14		30
1,4-Dioxane	ND	4960	4400	89		6200	110		65-136	**33**	Q	30
Freon-113	ND	99.3	100	102		130	112		50-139	21		30
Methyl cyclohexane	ND	99.3	96	97		110	96		70-130	11		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		95		70-130
4-Bromofluorobenzene	100		106		70-130
Dibromofluoromethane	106		107		70-130
Toluene-d8	96		99		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-01
Client ID: MA SW-4 2.5'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:05
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 02:49
Analyst: RC
Percent Solids: 66%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	200	26.	1
Hexachlorobenzene	ND		ug/kg	150	28.	1
Fluoranthene	39	J	ug/kg	150	28.	1
Naphthalene	ND		ug/kg	250	30.	1
Benzo(a)anthracene	ND		ug/kg	150	28.	1
Benzo(a)pyrene	ND		ug/kg	200	60.	1
Benzo(b)fluoranthene	ND		ug/kg	150	42.	1
Benzo(k)fluoranthene	ND		ug/kg	150	40.	1
Chrysene	ND		ug/kg	150	26.	1
Acenaphthylene	ND		ug/kg	200	38.	1
Anthracene	ND		ug/kg	150	48.	1
Benzo(ghi)perylene	ND		ug/kg	200	29.	1
Fluorene	ND		ug/kg	250	24.	1
Phenanthrene	ND		ug/kg	150	30.	1
Dibenzo(a,h)anthracene	ND		ug/kg	150	29.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	200	35.	1
Pyrene	35	J	ug/kg	150	25.	1
Dibenzofuran	ND		ug/kg	250	23.	1
Pentachlorophenol	ND		ug/kg	200	55.	1
Phenol	ND		ug/kg	250	37.	1
2-Methylphenol	ND		ug/kg	250	38.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	360	39.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-01 Date Collected: 08/27/18 10:05

Client ID: MA SW-4 2.5' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	99		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	80		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-02
Client ID: MA SW-5 2.5'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:50
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 05:33
Analyst: RC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

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
Fluoranthene	75	J	ug/kg	120	24.	1
Naphthalene	ND		ug/kg	210	25.	1
Benzo(a)anthracene	26	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	36	J	ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	31	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	26	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	35	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	50	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-02 Date Collected: 08/27/18 10:50

Client ID: MA SW-5 2.5' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	95		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	103		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	104		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-03
Client ID: MA SW-6 2.5'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:46
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 05:57
Analyst: RC
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Fluoranthene	67	J	ug/kg	140	26.	1
Naphthalene	ND		ug/kg	230	28.	1
Benzo(a)anthracene	30	J	ug/kg	140	25.	1
Benzo(a)pyrene	ND		ug/kg	180	55.	1
Benzo(b)fluoranthene	ND		ug/kg	140	38.	1
Benzo(k)fluoranthene	ND		ug/kg	140	36.	1
Chrysene	33	J	ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	140	44.	1
Benzo(ghi)perylene	ND		ug/kg	180	27.	1
Fluorene	ND		ug/kg	230	22.	1
Phenanthrene	28	J	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	54	J	ug/kg	140	22.	1
Dibenzofuran	ND		ug/kg	230	21.	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	320	35.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-03 Date Collected: 08/27/18 10:46

Client ID: MA SW-6 2.5' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	96		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	81		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-04
Client ID: BLIND DUP #2
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 12:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 06:21
Analyst: RC
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Fluoranthene	28	J	ug/kg	130	26.	1
Naphthalene	ND		ug/kg	220	27.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	55.	1
Benzo(b)fluoranthene	ND		ug/kg	130	38.	1
Benzo(k)fluoranthene	ND		ug/kg	130	36.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	44.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	22	J	ug/kg	130	22.	1
Dibenzofuran	ND		ug/kg	220	21.	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-04 Date Collected: 08/27/18 12:00

Client ID: BLIND DUP #2 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	71		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-05
Client ID: MA SW-7
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:50
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 01:56
Analyst: RC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	200	18.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	29.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-05 Date Collected: 08/27/18 10:50

Client ID: MA SW-7 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-06
Client ID: MA B-1 3.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 11:34
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 06:45
Analyst: RC
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

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	22.	1
Fluoranthene	51	J	ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	23	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	41	J	ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	22	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	43	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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	290	31.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-06 Date Collected: 08/27/18 11:34

Client ID: MA B-1 3.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	96		30-120
2,4,6-Tribromophenol	109		10-136
4-Terphenyl-d14	90		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-07
Client ID: MA B-2 3.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 11:39
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 01:09
Analyst: RC
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

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
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	25.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-07 Date Collected: 08/27/18 11:39

Client ID: MA B-2 3.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	94		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-08
Client ID: MA B-3 4.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 11:44
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 01:33
Analyst: RC
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Fluoranthene	ND		ug/kg	130	26.	1
Naphthalene	ND		ug/kg	220	27.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	55.	1
Benzo(b)fluoranthene	ND		ug/kg	130	38.	1
Benzo(k)fluoranthene	ND		ug/kg	130	36.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	130	44.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Dibenzofuran	ND		ug/kg	220	21.	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-08 Date Collected: 08/27/18 11:44

Client ID: MA B-3 4.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	91		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	106		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	93		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-09
Client ID: HLA-SW-1 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:20
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 01:57
Analyst: RC
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

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	22.	1
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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	290	31.	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-09 Date Collected: 08/27/18 15:20

Client ID: HLA-SW-1 8.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-10
Client ID: HLA-SW-2 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:24
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 05:09
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

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
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-10 Date Collected: 08/27/18 15:24

Client ID: HLA-SW-2 8.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	102		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	112		10-136
4-Terphenyl-d14	93		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-11
Client ID: HLA-SW-3 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:29
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 02:21
Analyst: RC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-11 Date Collected: 08/27/18 15:29

Client ID: HLA-SW-3 8.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	98		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	102		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	92		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-12
Client ID: HLA-SW-4 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:34
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 04:45
Analyst: RC
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-12 Date Collected: 08/27/18 15:34

Client ID: HLA-SW-4 8.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	97		25-120
Phenol-d6	102		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	102		30-120
2,4,6-Tribromophenol	109		10-136
4-Terphenyl-d14	90		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-13
Client ID: UST-3 SW-17.5
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:29
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 02:23
Analyst: RC
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

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
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-13 Date Collected: 08/27/18 14:29

Client ID: UST-3 SW-17.5 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	102		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	83		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-14
Client ID: UST-3 SW-2 7.0
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:14
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 02:45
Analyst: RC
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-14 Date Collected: 08/27/18 14:14

Client ID: UST-3 SW-2 7.0 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	100		25-120
Phenol-d6	101		10-120
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	88		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-15
Client ID: BLIND DUP #3
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 16:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 03:09
Analyst: RC
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

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
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	18.	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

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-15 Date Collected: 08/27/18 16:00

Client ID: BLIND DUP #3 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	84		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-16
Client ID: UST-3 SW-3 7.0
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:24
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 03:57
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

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
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-16 Date Collected: 08/27/18 14:24

Client ID: UST-3 SW-3 7.0 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	83		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-17
Client ID: UST-3 SW-4 7.0
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:08
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 04:21
Analyst: RC
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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	30.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-17 Date Collected: 08/27/18 14:08

Client ID: UST-3 SW-4 7.0 Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	102		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	101		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-18
Client ID: UST-3 B-1 9.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 00:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 03:33
Analyst: RC
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 08/28/18 11:08

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	31.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		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	27.	1
Pyrene	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-18 Date Collected: 08/27/18 00:00

Client ID: UST-3 B-1 9.0' Date Received: 08/27/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	2720	J	ug/kg			1
Unknown	178	J	ug/kg			1
Unknown	258	J	ug/kg			1
Unknown	2280	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	92		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/28/18 19:49
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-18 Batch: WG1151342-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
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.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.

Tentatively Identified Compounds			
Total TIC Compounds	135	J	ug/kg
Unknown	135	J	ug/kg

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833792
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/28/18 19:49
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/28/18 10:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-18 Batch: WG1151342-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	98		25-120
Phenol-d6	101		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	90		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-18 Batch: WG1151342-2 WG1151342-3								
Acenaphthene	91		93		31-137	2		50
Hexachlorobenzene	88		91		40-140	3		50
Fluoranthene	93		95		40-140	2		50
Naphthalene	88		88		40-140	0		50
Benzo(a)anthracene	88		90		40-140	2		50
Benzo(a)pyrene	94		96		40-140	2		50
Benzo(b)fluoranthene	91		94		40-140	3		50
Benzo(k)fluoranthene	95		98		40-140	3		50
Chrysene	89		92		40-140	3		50
Acenaphthylene	92		94		40-140	2		50
Anthracene	94		96		40-140	2		50
Benzo(ghi)perylene	96		100		40-140	4		50
Fluorene	95		94		40-140	1		50
Phenanthrene	92		94		40-140	2		50
Dibenzo(a,h)anthracene	96		102		40-140	6		50
Indeno(1,2,3-cd)pyrene	97		102		40-140	5		50
Pyrene	94		97		35-142	3		50
Dibenzofuran	91		93		40-140	2		50
Pentachlorophenol	96		101		17-109	5		50
Phenol	**111**	Q	**115**	Q	26-90	4		50
2-Methylphenol	104		108		30-130.	4		50
3-Methylphenol/4-Methylphenol	100		106		30-130	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-18 Batch: WG1151342-2 WG1151342-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	95		99		25-120
Phenol-d6	104		106		10-120
Nitrobenzene-d5	97		99		23-120
2-Fluorobiphenyl	86		84		30-120
2,4,6-Tribromophenol	89		92		10-136
4-Terphenyl-d14	90		90		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG1151342-4 WG1151342-5 QC Sample: L1833792-05 Client ID: MA SW-7												
Acenaphthene	ND	1570	1300	83		1400	89		31-137	7		50
Hexachlorobenzene	ND	1570	1200	76		1300	83		40-140	8		50
Fluoranthene	ND	1570	1400	89		1400	89		40-140	0		50
Naphthalene	ND	1570	1300	83		1300	83		40-140	0		50
Benzo(a)anthracene	ND	1570	1200	76		1300	83		40-140	8		50
Benzo(a)pyrene	ND	1570	1300	83		1300	83		40-140	0		50
Benzo(b)fluoranthene	ND	1570	1200	76		1300	83		40-140	8		50
Benzo(k)fluoranthene	ND	1570	1300	83		1400	89		40-140	7		50
Chrysene	ND	1570	1200	76		1300	83		40-140	8		50
Acenaphthylene	ND	1570	1300	83		1400	89		40-140	7		50
Anthracene	ND	1570	1400	89		1400	89		40-140	0		50
Benzo(ghi)perylene	ND	1570	1200	76		1300	83		40-140	8		50
Fluorene	ND	1570	1300	83		1400	89		40-140	7		50
Phenanthrene	ND	1570	1300	83		1400	89		40-140	7		50
Dibenzo(a,h)anthracene	ND	1570	1200	76		1300	83		40-140	8		50
Indeno(1,2,3-cd)pyrene	ND	1570	1200	76		1300	83		40-140	8		50
Pyrene	ND	1570	1300	83		1400	89		35-142	7		50
Dibenzofuran	ND	1570	1300	83		1400	89		40-140	7		50
Pentachlorophenol	ND	1570	1400	89		1500	96		17-109	7		50
Phenol	ND	1570	1400	89		1600	**100**	Q	26-90	13		50
2-Methylphenol	ND	1570	1400	89		1500	96		30-130.	7		50
3-Methylphenol/4-Methylphenol	ND	1570	1400	89		1400	89		30-130	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG1151342-4 WG1151342-5 QC Sample: L1833792-05 Client ID: MA SW-7												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
2,4,6-Tribromophenol	81		87		10-136
2-Fluorobiphenyl	73		78		30-120
2-Fluorophenol	84		89		25-120
4-Terphenyl-d14	77		82		18-120
Nitrobenzene-d5	85		92		23-120
Phenol-d6	89		96		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG1151342-6 WG1151342-7 QC Sample: L1833792-13 Client ID: UST-3 SW-17.5												
Acenaphthene	ND	1520	1300	86		1400	92		31-137	7		50
Hexachlorobenzene	ND	1520	1300	86		1400	92		40-140	7		50
Fluoranthene	ND	1520	1400	92		1400	92		40-140	0		50
Naphthalene	ND	1520	1300	86		1400	92		40-140	7		50
Benzo(a)anthracene	ND	1520	1200	79		1300	86		40-140	8		50
Benzo(a)pyrene	ND	1520	1200	79		1400	92		40-140	15		50
Benzo(b)fluoranthene	ND	1520	1300	86		1300	86		40-140	0		50
Benzo(k)fluoranthene	ND	1520	1300	86		1400	92		40-140	7		50
Chrysene	ND	1520	1200	79		1300	86		40-140	8		50
Acenaphthylene	ND	1520	1300	86		1400	92		40-140	7		50
Anthracene	ND	1520	1400	92		1500	99		40-140	7		50
Benzo(ghi)perylene	ND	1520	1200	79		1300	86		40-140	8		50
Fluorene	ND	1520	1400	92		1500	99		40-140	7		50
Phenanthrene	ND	1520	1300	86		1400	92		40-140	7		50
Dibenzo(a,h)anthracene	ND	1520	1300	86		1300	86		40-140	0		50
Indeno(1,2,3-cd)pyrene	ND	1520	1200	79		1300	86		40-140	8		50
Pyrene	ND	1520	1400	92		1500	99		35-142	7		50
Dibenzofuran	ND	1520	1300	86		1400	92		40-140	7		50
Pentachlorophenol	ND	1520	1400	92		1600	**110**	Q	17-109	13		50
Phenol	ND	1520	1700	**110**	Q	1700	**110**	Q	26-90	0		50
2-Methylphenol	ND	1520	1600	110		1700	110		30-130.	6		50
3-Methylphenol/4-Methylphenol	ND	1520	1500	99		1600	110		30-130	6		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG1151342-6 WG1151342-7 QC Sample: L1833792-13 Client ID: UST-3 SW-17.5												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
2,4,6-Tribromophenol	87		94		10-136
2-Fluorobiphenyl	79		78		30-120
2-Fluorophenol	94		101		25-120
4-Terphenyl-d14	81		82		18-120
Nitrobenzene-d5	98		102		23-120
Phenol-d6	103		105		10-120

METALS

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-01
Client ID: MA SW-4 2.5'
Sample Location: BUFFALO, NY
Date Collected: 08/27/18 10:05
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	16000		mg/kg	11.7	3.15	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Antimony, Total	2.15	J	mg/kg	5.84	0.444	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Arsenic, Total	5.74		mg/kg	1.17	0.243	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Barium, Total	128		mg/kg	1.17	0.203	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Beryllium, Total	0.782		mg/kg	0.584	0.039	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Cadmium, Total	0.817	J	mg/kg	1.17	0.114	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Calcium, Total	19100		mg/kg	11.7	4.08	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Chromium, Total	19.7		mg/kg	1.17	0.112	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Cobalt, Total	6.59		mg/kg	2.33	0.194	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Copper, Total	17.6		mg/kg	1.17	0.301	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Iron, Total	19700		mg/kg	5.84	1.05	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Lead, Total	31.0		mg/kg	5.84	0.313	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Magnesium, Total	4920		mg/kg	11.7	1.80	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Manganese, Total	277		mg/kg	1.17	0.186	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Mercury, Total	0.163		mg/kg	0.097	0.020	1	08/29/18 08:50	08/29/18 11:38	EPA 7471B	1,7471B	MG
Nickel, Total	17.4		mg/kg	2.92	0.282	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Potassium, Total	1090		mg/kg	292	16.8	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Selenium, Total	0.689	J	mg/kg	2.33	0.301	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	1.17	0.330	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Sodium, Total	1710		mg/kg	233	3.68	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	2.33	0.368	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Vanadium, Total	22.3		mg/kg	1.17	0.237	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC
Zinc, Total	106		mg/kg	5.84	0.342	2	08/30/18 11:28	08/30/18 15:30	EPA 3050B	1,6010D	LC

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-02
Client ID: MA SW-5 2.5'
Sample Location: BUFFALO, NY
Date Collected: 08/27/18 10:50
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14000		mg/kg	9.96	2.69	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Antimony, Total	1.44	J	mg/kg	4.98	0.378	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Arsenic, Total	2.97		mg/kg	0.996	0.207	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Barium, Total	130		mg/kg	0.996	0.173	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Beryllium, Total	0.667		mg/kg	0.498	0.033	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Cadmium, Total	0.458	J	mg/kg	0.996	0.098	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Calcium, Total	15900		mg/kg	9.96	3.48	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Chromium, Total	19.2		mg/kg	0.996	0.096	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Cobalt, Total	8.70		mg/kg	1.99	0.165	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Copper, Total	17.1		mg/kg	0.996	0.257	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Iron, Total	20200		mg/kg	4.98	0.899	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Lead, Total	12.6		mg/kg	4.98	0.267	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Magnesium, Total	9220		mg/kg	9.96	1.53	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Manganese, Total	458		mg/kg	0.996	0.158	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Mercury, Total	0.061	J	mg/kg	0.079	0.017	1	08/29/18 08:50	08/29/18 11:40	EPA 7471B	1,7471B	MG
Nickel, Total	20.8		mg/kg	2.49	0.241	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Potassium, Total	1200		mg/kg	249	14.3	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.99	0.257	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.996	0.282	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Sodium, Total	925		mg/kg	199	3.14	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.99	0.314	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Vanadium, Total	23.9		mg/kg	0.996	0.202	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC
Zinc, Total	75.9		mg/kg	4.98	0.292	2	08/30/18 11:28	08/30/18 15:35	EPA 3050B	1,6010D	LC

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-03
Client ID: MA SW-6 2.5'
Sample Location: BUFFALO, NY
Date Collected: 08/27/18 10:46
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10600		mg/kg	10.5	2.84	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Antimony, Total	1.66	J	mg/kg	5.26	0.400	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Arsenic, Total	5.86		mg/kg	1.05	0.219	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Barium, Total	90.0		mg/kg	1.05	0.183	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Beryllium, Total	0.526		mg/kg	0.526	0.035	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Cadmium, Total	0.621	J	mg/kg	1.05	0.103	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Calcium, Total	43800		mg/kg	10.5	3.68	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Chromium, Total	16.4		mg/kg	1.05	0.101	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Cobalt, Total	10.1		mg/kg	2.10	0.175	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Copper, Total	27.0		mg/kg	1.05	0.271	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Iron, Total	18200		mg/kg	5.26	0.950	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Lead, Total	44.3		mg/kg	5.26	0.282	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Magnesium, Total	14400		mg/kg	10.5	1.62	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Manganese, Total	530		mg/kg	1.05	0.167	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Mercury, Total	0.129		mg/kg	0.086	0.018	1	08/29/18 08:50	08/29/18 11:42	EPA 7471B	1,7471B	MG
Nickel, Total	21.6		mg/kg	2.63	0.255	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Potassium, Total	1360		mg/kg	263	15.2	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	2.10	0.271	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	1.05	0.298	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Sodium, Total	179	J	mg/kg	210	3.31	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	2.10	0.331	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Vanadium, Total	23.1		mg/kg	1.05	0.214	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC
Zinc, Total	93.7		mg/kg	5.26	0.308	2	08/30/18 11:28	08/30/18 15:40	EPA 3050B	1,6010D	LC

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-04
Client ID: BLIND DUP #2
Sample Location: BUFFALO, NY
Date Collected: 08/27/18 12:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8300		mg/kg	10.6	2.86	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Antimony, Total	1.20	J	mg/kg	5.31	0.403	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Arsenic, Total	8.27		mg/kg	1.06	0.221	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Barium, Total	79.7		mg/kg	1.06	0.185	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Beryllium, Total	0.424	J	mg/kg	0.531	0.035	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Cadmium, Total	0.499	J	mg/kg	1.06	0.104	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Calcium, Total	75000		mg/kg	10.6	3.71	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Chromium, Total	14.2		mg/kg	1.06	0.102	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Cobalt, Total	6.31		mg/kg	2.12	0.176	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Copper, Total	24.3		mg/kg	1.06	0.274	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Iron, Total	14500		mg/kg	5.31	0.958	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Lead, Total	84.2		mg/kg	5.31	0.284	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Magnesium, Total	10300		mg/kg	10.6	1.63	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Manganese, Total	317		mg/kg	1.06	0.169	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Mercury, Total	0.098		mg/kg	0.085	0.018	1	08/29/18 08:50	08/29/18 11:44	EPA 7471B	1,7471B	MG
Nickel, Total	15.3		mg/kg	2.65	0.257	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Potassium, Total	1020		mg/kg	265	15.3	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Selenium, Total	0.573	J	mg/kg	2.12	0.274	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	1.06	0.300	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Sodium, Total	145	J	mg/kg	212	3.34	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	2.12	0.334	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Vanadium, Total	17.8		mg/kg	1.06	0.215	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC
Zinc, Total	83.8		mg/kg	5.31	0.311	2	08/30/18 11:28	08/30/18 16:00	EPA 3050B	1,6010D	LC

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-05
Client ID: MA SW-7
Sample Location: BUFFALO, NY
Date Collected: 08/27/18 10:50
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14200		mg/kg	9.52	2.57	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Antimony, Total	1.73	J	mg/kg	4.76	0.362	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Arsenic, Total	4.28		mg/kg	0.952	0.198	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Barium, Total	116		mg/kg	0.952	0.166	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Beryllium, Total	0.733		mg/kg	0.476	0.031	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Cadmium, Total	0.590	J	mg/kg	0.952	0.093	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Calcium, Total	2800		mg/kg	9.52	3.33	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Chromium, Total	19.4		mg/kg	0.952	0.091	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Cobalt, Total	12.5		mg/kg	1.90	0.158	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Copper, Total	14.9		mg/kg	0.952	0.246	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Iron, Total	23800		mg/kg	4.76	0.860	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Lead, Total	24.2		mg/kg	4.76	0.255	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Magnesium, Total	3720		mg/kg	9.52	1.47	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Manganese, Total	417		mg/kg	0.952	0.151	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Mercury, Total	0.063	J	mg/kg	0.075	0.016	1	08/29/18 08:50	08/29/18 11:11	EPA 7471B	1,7471B	MG
Nickel, Total	20.3		mg/kg	2.38	0.230	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Potassium, Total	1040		mg/kg	238	13.7	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Selenium, Total	0.371	J	mg/kg	1.90	0.246	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.952	0.270	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Sodium, Total	420		mg/kg	190	3.00	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.90	0.300	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Vanadium, Total	26.8		mg/kg	0.952	0.193	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC
Zinc, Total	75.2		mg/kg	4.76	0.279	2	08/30/18 11:28	08/30/18 15:11	EPA 3050B	1,6010D	LC

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-06
Client ID: MA B-1 3.0'
Sample Location: BUFFALO, NY
Date Collected: 08/27/18 11:34
Date Received: 08/27/18
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	7720		mg/kg	9.52	2.57	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Antimony, Total	0.762	J	mg/kg	4.76	0.362	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Arsenic, Total	2.83		mg/kg	0.952	0.198	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Barium, Total	81.3		mg/kg	0.952	0.166	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Beryllium, Total	0.438	J	mg/kg	0.476	0.031	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Cadmium, Total	0.410	J	mg/kg	0.952	0.093	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Calcium, Total	40800		mg/kg	9.52	3.33	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Chromium, Total	11.8		mg/kg	0.952	0.091	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Cobalt, Total	7.03		mg/kg	1.90	0.158	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Copper, Total	15.1		mg/kg	0.952	0.246	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Iron, Total	13400		mg/kg	4.76	0.860	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Lead, Total	11.3		mg/kg	4.76	0.255	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Magnesium, Total	9780		mg/kg	9.52	1.47	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Manganese, Total	487		mg/kg	0.952	0.151	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Mercury, Total	0.040	J	mg/kg	0.076	0.016	1	08/29/18 08:50	08/29/18 11:49	EPA 7471B	1,7471B	MG
Nickel, Total	14.6		mg/kg	2.38	0.230	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Potassium, Total	760		mg/kg	238	13.7	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Selenium, Total	0.248	J	mg/kg	1.90	0.246	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.952	0.270	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Sodium, Total	154	J	mg/kg	190	3.00	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.90	0.300	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Vanadium, Total	15.0		mg/kg	0.952	0.193	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC
Zinc, Total	56.2		mg/kg	4.76	0.279	2	08/30/18 11:28	08/30/18 16:06	EPA 3050B	1,6010D	LC

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-07
Client ID: MA B-2 3.0'
Sample Location: BUFFALO, NY
Date Collected: 08/27/18 11:39
Date Received: 08/27/18
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	13900		mg/kg	9.54	2.58	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Antimony, Total	1.21	J	mg/kg	4.77	0.363	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Arsenic, Total	3.07		mg/kg	0.954	0.198	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Barium, Total	129		mg/kg	0.954	0.166	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Beryllium, Total	0.687		mg/kg	0.477	0.032	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Cadmium, Total	0.506	J	mg/kg	0.954	0.094	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Calcium, Total	25300		mg/kg	9.54	3.34	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Chromium, Total	19.5		mg/kg	0.954	0.092	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Cobalt, Total	9.92		mg/kg	1.91	0.158	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Copper, Total	21.6		mg/kg	0.954	0.246	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Iron, Total	21400		mg/kg	4.77	0.862	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Lead, Total	12.1		mg/kg	4.77	0.256	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Magnesium, Total	11300		mg/kg	9.54	1.47	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Manganese, Total	484		mg/kg	0.954	0.152	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Mercury, Total	0.051	J	mg/kg	0.077	0.016	1	08/29/18 08:50	08/29/18 11:51	EPA 7471B	1,7471B	MG
Nickel, Total	24.0		mg/kg	2.38	0.231	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Potassium, Total	1280		mg/kg	238	13.7	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.91	0.246	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.954	0.270	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Sodium, Total	540		mg/kg	191	3.01	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.91	0.301	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Vanadium, Total	26.4		mg/kg	0.954	0.194	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC
Zinc, Total	77.9		mg/kg	4.77	0.280	2	08/30/18 11:28	08/30/18 16:11	EPA 3050B	1,6010D	LC

Project Name: 1585 HERTEL AVE.
Lab Number: L1833792
Project Number: 0437-017-001-005-002
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-08
Client ID: MA B-3 4.0'
Sample Location: BUFFALO, NY
Date Collected: 08/27/18 11:44
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9450		mg/kg	10.5	2.83	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Antimony, Total	1.05	J	mg/kg	5.24	0.398	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Arsenic, Total	2.18		mg/kg	1.05	0.218	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Barium, Total	67.3		mg/kg	1.05	0.182	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Beryllium, Total	0.440	J	mg/kg	0.524	0.035	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Cadmium, Total	0.429	J	mg/kg	1.05	0.103	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Calcium, Total	53000		mg/kg	10.5	3.66	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Chromium, Total	14.6		mg/kg	1.05	0.100	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Cobalt, Total	7.15		mg/kg	2.09	0.174	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Copper, Total	17.0		mg/kg	1.05	0.270	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Iron, Total	16400		mg/kg	5.24	0.946	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Lead, Total	9.31		mg/kg	5.24	0.281	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Magnesium, Total	14600		mg/kg	10.5	1.61	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Manganese, Total	382		mg/kg	1.05	0.166	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Mercury, Total	0.045	J	mg/kg	0.086	0.018	1	08/29/18 08:50	08/29/18 11:53	EPA 7471B	1,7471B	MG
Nickel, Total	16.8		mg/kg	2.62	0.253	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Potassium, Total	1270		mg/kg	262	15.1	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Selenium, Total	0.335	J	mg/kg	2.09	0.270	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	1.05	0.296	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Sodium, Total	354		mg/kg	209	3.30	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	2.09	0.330	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Vanadium, Total	18.8		mg/kg	1.05	0.213	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC
Zinc, Total	61.2		mg/kg	5.24	0.307	2	08/30/18 11:28	08/30/18 16:16	EPA 3050B	1,6010D	LC

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833792

Project Number: 0437-017-001-005-002 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1151613-1										
Mercury, Total	0.038	J	mg/kg	0.083	0.018	1	08/29/18 08:50	08/29/18 11:07	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1152099-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Iron, Total	0.616	J	mg/kg	2.00	0.361	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Manganese, Total	0.100	J	mg/kg	0.400	0.064	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/30/18 11:28	08/30/18 15:01	1,6010D	LC

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833792
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1151613-2 SRM Lot Number: D102-540								
Mercury, Total	65		-		65-134	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1152099-2 SRM Lot Number: D102-540					
Aluminum, Total	67	-	49-150	-	
Antimony, Total	184	-	1-199	-	
Arsenic, Total	104	-	83-117	-	
Barium, Total	96	-	83-118	-	
Beryllium, Total	95	-	83-116	-	
Cadmium, Total	96	-	83-118	-	
Calcium, Total	90	-	82-118	-	
Chromium, Total	99	-	83-117	-	
Cobalt, Total	100	-	84-116	-	
Copper, Total	98	-	84-116	-	
Iron, Total	100	-	61-139	-	
Lead, Total	103	-	82-118	-	
Magnesium, Total	84	-	76-124	-	
Manganese, Total	95	-	82-118	-	
Nickel, Total	101	-	83-117	-	
Potassium, Total	81	-	70-130	-	
Selenium, Total	106	-	79-121	-	
Silver, Total	103	-	80-120	-	
Sodium, Total	100	-	74-126	-	
Thallium, Total	99	-	81-119	-	
Vanadium, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1152099-2 SRM Lot Number: D102-540					
Zinc, Total	100	-	81-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1151613-3 WG1151613-4 QC Sample: L1833792-05 Client ID: MA SW-7												
Mercury, Total	0.063J	0.154	0.269	**174**	Q	0.270	**179**	Q	80-120	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

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): 01-08 QC Batch ID: WG1152099-3 WG1152099-4 QC Sample: L1833792-05 Client ID: MA SW-7											
Aluminum, Total	14200	189	16500	**1220**	Q	16100	**1010**	Q	75-125	2	20
Antimony, Total	1.73J	47.3	43.5	92		41.6	89		75-125	4	20
Arsenic, Total	4.28	11.4	15.7	100		14.7	93		75-125	7	20
Barium, Total	116.	189	289	91		288	92		75-125	0	20
Beryllium, Total	0.733	4.73	4.73	84		4.76	86		75-125	1	20
Cadmium, Total	0.590J	4.83	5.01	104		4.84	101		75-125	3	20
Calcium, Total	2800	946	3550	79		3590	84		75-125	1	20
Chromium, Total	19.4	18.9	38.9	103		36.5	91		75-125	6	20
Cobalt, Total	12.5	47.3	55.4	91		51.2	83		75-125	8	20
Copper, Total	14.9	23.6	41.8	114		36.7	93		75-125	13	20
Iron, Total	23800	94.6	26600	**2960**	Q	29200	**5770**	Q	75-125	9	20
Lead, Total	24.2	48.3	68.8	92		58.5	**72**	Q	75-125	16	20
Magnesium, Total	3720	946	5570	**195**	Q	4950	**131**	Q	75-125	12	20
Manganese, Total	417.	47.3	481	**135**	Q	588	**365**	Q	75-125	20	20
Nickel, Total	20.3	47.3	66.1	97		60.8	86		75-125	8	20
Potassium, Total	1040	946	2100	112		2020	105		75-125	4	20
Selenium, Total	0.371J	11.4	10.0	88		9.64	86		75-125	4	20
Silver, Total	ND	28.4	27.5	97		26.6	95		75-125	3	20
Sodium, Total	420.	946	1270	90		1240	88		75-125	2	20
Thallium, Total	ND	11.4	9.14	80		8.73	78		75-125	5	20
Vanadium, Total	26.8	47.3	73.2	98		72.4	97		75-125	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

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): 01-08 QC Batch ID: WG1152099-3 WG1152099-4 QC Sample: L1833792-05 Client ID: MA SW-7									
Zinc, Total	75.2	47.3	130	116	121	98	75-125	7	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-01
Client ID: MA SW-4 2.5'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:05
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	65.6		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-02
Client ID: MA SW-5 2.5'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:50
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-03
Client ID: MA SW-6 2.5'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:46
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.0		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-04
Client ID: BLIND DUP #2
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 12:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.5		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-05
Client ID: MA SW-7
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 10:50
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-06
Client ID: MA B-1 3.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 11:34
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-07
Client ID: MA B-2 3.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 11:39
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-08
Client ID: MA B-3 4.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 11:44
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.0		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-09
Client ID: HLA-SW-1 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:20
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-10
Client ID: HLA-SW-2 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:24
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-11
Client ID: HLA-SW-3 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:29
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-12
Client ID: HLA-SW-4 8.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 15:34
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-13
Client ID: UST-3 SW-17.5
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:29
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-14
Client ID: UST-3 SW-2 7.0
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:14
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-15
Client ID: BLIND DUP #3
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 16:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-16
Client ID: UST-3 SW-3 7.0
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:24
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-17
Client ID: UST-3 SW-4 7.0
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 14:08
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833792-18
Client ID: UST-3 B-1 9.0'
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 00:00
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.9		%	0.100	NA	1	-	08/28/18 10:03	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833792

Report Date: 08/30/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG1151327-1 QC Sample: L1833792-05 Client ID: MA SW-7						
Solids, Total	83.2	85.4	%	3		20

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833792-01A	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-01B	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-01C	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-01D	Glass 250ml/8oz unpreserved	C	NA		2.2	Y	Absent		TS(7)
L1833792-01E	Glass 60ml unpreserved split	C	NA		2.2	Y	Absent		BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-01X	Vial MeOH preserved split	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-01Y	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-01Z	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-02A	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-02B	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-02C	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-02D	Glass 250ml/8oz unpreserved	B	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-02E	Glass 60ml unpreserved split	B	NA		3.1	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-02X	Vial MeOH preserved split	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-02Y	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833792-02Z	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-03A	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-03B	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-03C	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-03D	Glass 250ml/8oz unpreserved	B	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-03E	Glass 60ml unpreserved split	B	NA		3.1	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-03X	Vial MeOH preserved split	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-03Y	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-03Z	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-04A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-04B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-04C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-04D	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-04E	Glass 60ml unpreserved split	A	NA		2.7	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-04X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-04Y	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-04Z	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-05A	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05A1	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05A2	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05B	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05B1	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05B2	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833792-05C	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05C1	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05C2	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05D	Plastic 2oz unpreserved for TS	C	NA		2.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-05D1	Plastic 2oz unpreserved for TS	C	NA		2.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-05D2	Plastic 2oz unpreserved for TS	C	NA		2.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-05E	Glass 60ml unpreserved split	C	NA		2.2	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-05E1	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.2	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-05E2	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.2	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-05X	Vial MeOH preserved split	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05X1	Vial MeOH preserved split	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05X2	Vial MeOH preserved split	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-05Y	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-05Y1	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-05Y2	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-05Z	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-05Z1	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-05Z2	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-06A	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-06B	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-06C	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833792-06D	Glass 250ml/8oz unpreserved	C	NA		2.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-06E	Glass 60ml unpreserved split	C	NA		2.2	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-06X	Vial MeOH preserved split	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-06Y	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-06Z	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-07A	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-07B	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-07C	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-07D	Glass 250ml/8oz unpreserved	C	NA		2.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-07E	Glass 60ml unpreserved split	C	NA		2.2	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-07X	Vial MeOH preserved split	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-07Y	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-07Z	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-08A	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-08B	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-08C	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-08D	Glass 250ml/8oz unpreserved	B	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-08E	Glass 60ml unpreserved split	B	NA		3.1	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833792-08X	Vial MeOH preserved split	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-08Y	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)
L1833792-08Z	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 10:28	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833792-09A	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-09B	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-09C	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-09D	Glass 250ml/8oz unpreserved	B	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-09X	Vial MeOH preserved split	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-09Y	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-09Z	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-10A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-10B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-10C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-10D	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-10X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-10Y	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-10Z	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-11A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-11B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-11C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-11D	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-11X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-11Y	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-11Z	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-12A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-12B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-12C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-12D	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-12X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-12Y	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-12Z	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833792-13A	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13A1	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13A2	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13B	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13B1	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13B2	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13C	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13C1	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13C2	5 gram Encore Sampler	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13D	Glass 250ml/8oz unpreserved	C	NA		2.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-13D1	Glass 250ml/8oz unpreserved	C	NA		2.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-13D2	Glass 250ml/8oz unpreserved	C	NA		2.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-13X	Vial MeOH preserved split	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13X1	Vial MeOH preserved split	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13X2	Vial MeOH preserved split	C	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1833792-13Y	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-13Y1	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-13Z	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-13Z1	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-13Z2	Vial Water preserved split	C	NA		2.2	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-14A	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-14B	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-14C	5 gram Encore Sampler	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-14D	Glass 250ml/8oz unpreserved	B	NA		3.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-14X	Vial MeOH preserved split	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1833792-14Y	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-14Z	Vial Water preserved split	B	NA		3.1	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-15A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833792-15B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-15C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-15D	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-15X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-15Y	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-15Z	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-16A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-16B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-16C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-16D	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-16X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-16Y	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-16Z	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-17A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-17B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-17C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-17D	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-17X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-17Y	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-17Z	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-18A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-18B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-18C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-18D	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TS(7)
L1833792-18X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1833792-18Y	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)
L1833792-18Z	Vial Water preserved split	A	NA		2.7	Y	Absent	28-AUG-18 11:26	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833792
Project Number:	0437-017-001-005-002	**Report Date:**	08/30/18

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).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833792
Project Number:	0437-017-001-005-002	**Report Date:**	08/30/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833792
Project Number:	0437-017-001-005-002	**Report Date:**	08/30/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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 8/28/18

ALPHA Job # L1833792

Client Information
Client: Benchmarke Eng
Address: 255 Hawbar Turnpike
Lancaster NY 14086
Phone: (716) 818-8352
Fax: (716) 876-0635
Email: JBell@benchmarkeng.com

Project Information
Project Name: 1585 Hertel Ave
Project Location: Buffalo NY
Project # 0437-017-001-005-002
(Use Project name as Project #) ☒
Project Manager: Chris Bean
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3 DAY

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:
CAT B

Please specify Metals or TAL.

ANALYSIS
- Rt 8260 Voc
- 8270 Part 375
- TAL METALS

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	Rt 8260 Voc	8270 Part 375	TAL METALS	Sample Specific Comments	Total Bottle
33792-01	MA-SW-4 2.5'	8/27/18	1005	SO.1	TAB	X	X	X		4
-02	MA SW-5 2.5'		1050			X	X	X		4
-03	MA SW-6 2.5'		1046			X	X	X		4
-04	Blind Dup # 2		1200			X	X	X	Add TICs	4
-05	MA-SW-7 MS;MSD		1050			X	X	X	Add TICs	4
-06	MA B-1 3.0'		1134			X	X	X		4
-07	MA B-2 3.0'		1139			X	X	X		4
-08	MA B-3 4.0'		1144			X	X	X		4
-09	HLA-SW-1 5.0'		1520			X	X			4
-10	HLA-SW-2 5.0'		1524			X	X			4

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					
Preservative	E	A	A					

Relinquished By:	Date/Time	Received By:	Date/Time
	8/27/18 1650	Sarah Sherry aal	8/27/18 16:50
Sarah Sherry aal	8/27/18 17:25	Nam	8/28/18 140

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

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 2 of 2

Date Rec'd in Lab: 8/28/18

ALPHA Job #: L1833792

Client Information
Client: Benchmark Eng
Address: 2558 Hamburg Turnpike Suite 300
Phone: 716 558-8358
Fax: 716 856-0583
Email: JBlunt@benchmarkeng.com

Project Information
Project Name: 1515 Hotel Ave
Project Location: Buffalo NY
Project #: 0437-017-001-005-002
(Use Project name as Project #): ☒
Project Manager: Chris Bacon
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3 Day

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:
CATB

Please specify Metals or TAL.

ANALYSIS
TCL+CP-51 VOC + 1,4-Dioxane
Part 375 SVOC

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	TCL+CP-51 VOC + 1,4-Dioxane	Part 375 SVOC	Sample Specific Comments	Total Bottle
33792-11	HLA-SW-3 5.0	8/27/18	1529	SOIL	TAB	X	X		4
-12	HLA SW-4 5.0		1534			X	X		4
-13	LST-3 SW-175 (MS/MSD)		1429			X	X	ADD TICS	4
-14	LST-3 SW-3 7.0		1414			X	X		4
-15	Blind Dup ~~#2~~ #3		1600			X	X	ADD TICS	4
-16	LST-3 SW-3 7.0		1424			X	X		4
-17	LST-3 SW-4 7.0		14.05			X	X		4
-19	LST-3 B-1 9.0					X	X		4

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
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible] 1650	8/27/18 16:50	Jack Henry and Mom	8/27/18 16:50
Jack Henry and	8/27/18 17:24		8/28/18 140

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:	L1833795
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-005-002
Report Date:	09/07/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833795
Report Date: 09/07/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833795-01	UST #5 TANK WATER	WATER	BUFFALO, NY	08/27/18 16:45	08/27/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833795
Report Date: 09/07/18

Case Narrative

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

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

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

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

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

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

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833795
Project Number:	0437-017-001-005-002	**Report Date:**	09/07/18

Case Narrative (continued)

Report Submission

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

The analysis of TOX was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

PCBs

The WG1152385-1 Method Blank, associated with L1833795-01, has a concentration above the reporting limit for Aroclor 1260. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

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

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 09/07/18

ORGANICS

PCBS

Project Name: 1585 HERTEL AVE.
Lab Number: L1833795
Project Number: 0437-017-001-005-002
Report Date: 09/07/18

SAMPLE RESULTS

Lab ID: L1833795-01
Client ID: UST #5 TANK WATER
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 16:45
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/31/18 19:34
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 08/31/18 00:01
Cleanup Method: EPA 3665A
Cleanup Date: 08/31/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833795
Report Date: 09/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/31/18 08:50
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 08/30/18 19:07
Cleanup Method: EPA 3665A
Cleanup Date: 08/31/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1152385-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	0.086		ug/l	0.083	0.032	A
Aroclor 1260	0.086		ug/l	0.083	0.032	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833795

Report Date: 09/07/18

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: WG1152385-2 WG1152385-3									
Aroclor 1016	71		72		40-140	2		50	A
Aroclor 1260	75		78		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		79		30-150	A
Decachlorobiphenyl	70		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		82		30-150	B
Decachlorobiphenyl	80		89		30-150	B

METALS

Project Name: 1585 HERTEL AVE.
Lab Number: L1833795
Project Number: 0437-017-001-005-002
Report Date: 09/07/18

SAMPLE RESULTS

Lab ID: L1833795-01
Client ID: UST #5 TANK WATER
Sample Location: BUFFALO, NY
Date Collected: 08/27/18 16:45
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.60		mg/l	0.0100	0.00327	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Antimony, Total	0.00113	J	mg/l	0.00400	0.00042	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00408		mg/l	0.00050	0.00016	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Barium, Total	0.1078		mg/l	0.00050	0.00017	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00014	J	mg/l	0.00050	0.00010	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00129		mg/l	0.00020	0.00005	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Calcium, Total	71.2		mg/l	0.100	0.0394	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Chromium, Total	0.00951		mg/l	0.00100	0.00017	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00330		mg/l	0.00050	0.00016	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Copper, Total	0.02332		mg/l	0.00100	0.00038	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Iron, Total	4.72		mg/l	0.0500	0.0191	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Lead, Total	0.06032		mg/l	0.00100	0.00034	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Magnesium, Total	88.4		mg/l	0.0700	0.0242	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Manganese, Total	0.3145		mg/l	0.00100	0.00044	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/30/18 15:53	08/31/18 21:05	EPA 7470A	1,7470A	EA
Nickel, Total	0.00881		mg/l	0.00200	0.00055	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Potassium, Total	24.4		mg/l	0.100	0.0309	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Sodium, Total	602.		mg/l	5.00	1.46	50	08/31/18 07:55	09/04/18 11:29	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00231	J	mg/l	0.00500	0.00157	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM
Zinc, Total	0.3105		mg/l	0.01000	0.00341	1	08/31/18 07:55	08/31/18 13:22	EPA 3005A	1,6020B	AM

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833795

Project Number: 0437-017-001-005-002 **Report Date:** 09/07/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1152323-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/30/18 15:53	08/31/18 21:02	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1152513-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Antimony, Total	0.00048	J	mg/l	0.00400	0.00042	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Sodium, Total	0.0580	J	mg/l	0.100	0.0293	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/31/18 07:55	08/31/18 11:55	1,6020B	AM

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833795
Report Date: 09/07/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833795

Report Date: 09/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1152323-2								
Mercury, Total	103		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833795

Report Date: 09/07/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1152513-2					
Aluminum, Total	96	-	80-120	-	
Antimony, Total	80	-	80-120	-	
Arsenic, Total	97	-	80-120	-	
Barium, Total	99	-	80-120	-	
Beryllium, Total	97	-	80-120	-	
Cadmium, Total	106	-	80-120	-	
Calcium, Total	100	-	80-120	-	
Chromium, Total	95	-	80-120	-	
Cobalt, Total	98	-	80-120	-	
Copper, Total	94	-	80-120	-	
Iron, Total	111	-	80-120	-	
Lead, Total	102	-	80-120	-	
Magnesium, Total	100	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	98	-	80-120	-	
Potassium, Total	97	-	80-120	-	
Selenium, Total	98	-	80-120	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	104	-	80-120	-	
Thallium, Total	100	-	80-120	-	
Vanadium, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833795

Report Date: 09/07/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1152513-2					
Zinc, Total	103	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833795
Report Date: 09/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1152323-3 QC Sample: L1833795-01 Client ID: UST #5 TANK WATER												
Mercury, Total	ND	0.005	0.00505	101		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833795
Report Date: 09/07/18

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 QC Batch ID: WG1152513-3 QC Sample: L1834390-05 Client ID: MS Sample										
Aluminum, Total	0.052	2	2.13	104		-	-	75-125	-	20
Antimony, Total	0.0008J	0.5	0.5727	114		-	-	75-125	-	20
Arsenic, Total	0.0010	0.12	0.1283	106		-	-	75-125	-	20
Barium, Total	0.1537	2	2.314	108		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05551	111		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05912	116		-	-	75-125	-	20
Calcium, Total	98.0	10	105	**70**	Q	-	-	75-125	-	20
Chromium, Total	0.00076J	0.2	0.2063	103		-	-	75-125	-	20
Cobalt, Total	0.0009	0.5	0.5258	105		-	-	75-125	-	20
Copper, Total	0.0028	0.25	0.2570	102		-	-	75-125	-	20
Iron, Total	0.346	1	1.47	112		-	-	75-125	-	20
Lead, Total	0.0005J	0.51	0.5561	109		-	-	75-125	-	20
Magnesium, Total	25.2	10	34.8	96		-	-	75-125	-	20
Manganese, Total	0.9844	0.5	1.483	100		-	-	75-125	-	20
Nickel, Total	0.00684	0.5	0.5236	103		-	-	75-125	-	20
Potassium, Total	2.37	10	12.6	102		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.129	108		-	-	75-125	-	20
Silver, Total	ND	0.05	0.05421	108		-	-	75-125	-	20
Sodium, Total	37.1	10	48.0	109		-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1289	107		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.5258	105		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833795
Report Date: 09/07/18

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 QC Batch ID: WG1152513-3 QC Sample: L1834390-05 Client ID: MS Sample									
Zinc, Total	0.0390	0.5	0.5798	108	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833795

Report Date: 09/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1152323-4 QC Sample: L1833795-01 Client ID: UST #5 TANK WATER						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1152513-4 QC Sample: L1834390-05 Client ID: DUP Sample						
Chromium, Total	0.00076J	0.00076J	mg/l	NC		20
Nickel, Total	0.00684	0.00663	mg/l	3		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833795
Report Date: 09/07/18

SAMPLE RESULTS

Lab ID: L1833795-01
Client ID: UST #5 TANK WATER
Sample Location: BUFFALO, NY

Date Collected: 08/27/18 16:45
Date Received: 08/27/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Flash Point	>150		deg F	70	NA	1	-	08/29/18 15:40	1,1010A	AG

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833795

Report Date: 09/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1151920-1								
Flash Point	101		-		96-104	-		

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833795
Report Date: 09/07/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833795-01A	Amber 120ml unpreserved	B	7	7	3.1	Y	Absent		NYTCL-8082-LVI(7)
L1833795-01B	Amber 120ml unpreserved	B	7	7	3.1	Y	Absent		NYTCL-8082-LVI(7)
L1833795-01C	Amber 250ml unpreserved	B	7	7	3.1	Y	Absent		FLASH()
L1833795-01D	Plastic 250ml HNO3 preserved	B	<2	<2	3.1	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833795
Project Number:	0437-017-001-005-002	**Report Date:**	09/07/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833795
Project Number:	0437-017-001-005-002	**Report Date:**	09/07/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833795
Project Number:	0437-017-001-005-002	**Report Date:**	09/07/18

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: 7/28/18

ALPHA Job #: L1833795

Client Information
Client: Brandman Eng
Address: 2558 Hamburg Turnpike
Lackawanna NY 14218
Phone: 716 855-8350
Fax: 716 856-0583
Email: TBlackstock@bbl-c.com

Project Information
Project Name: 1585 Hertel Ave
Project Location: Buffalo, NY
Project #: 0437-017-001-005-002
(Use Project name as Project #) ☒
Project Manager: Chris Bianco
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date: Rush
Rush (only if pre approved) ☑ # of Days: 5 Day

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:

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	PCBs	Flash	Sulfides, Halogens	Total Hg (Total Metals)	Sample Specific Comments	Total Bottle
33795-01	Inlet #5 Tank water	8/27/18	1645	Water	TAB	X	X	X	X		6

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	P					
Preservative	A	A	D	C					

Relinquished By:	Date/Time	Received By:	Date/Time
	8/27/18 1651		
	8/27/18 17:25	Nam	8/28/18 16:50
			8/28/18 1400

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)

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

September 7, 2018

Results
Alpha Analytical
145 Flanders Road
Westborough, MA 01581

Certificate of Analysis

Project Name:	**General Price Sheet**	Workorder:	**2335322**
Purchase Order:		Workorder ID:	**1585 Hertel**

Dear Results:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, August 29, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2335322 1585 Hertel

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2335322001	UST #5 Tank Water	Water	8/27/2018 16:45	8/29/2018 10:28	Collected by Client

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2335322 1585 Hertel

Lab ID: **2335322001** Date Collected: 8/27/2018 16:45 Matrix: Water

Sample ID: **UST #5 Tank Water** Date Received: 8/29/2018 10:28

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*
WET CHEMISTRY										
Halogen, Total Organic (TOX)	20.0 U	U	ug/L	20.0	7.3	SW846 9020B		9/6/18 10:54	PAG	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 2335322 1585 Hertel

Lab ID	Sample ID	Analysis Method	Prep Method
2335322001	UST #5 Tank Water	SW846 9020B	

2335322

NEW YORK CHAIN OF CUSTODY

Page 1 of 1

Date Rec'd in Lab

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

* 2 3 3 5 3 2 2 *

Client Information

Client: ALPHA ANALYTICAL
Address: 8 WALKUP DRIVE
Westborough, MA 01581
Phone: 508-898-9220
Fax:
Email: subreports@alphalab.com

Project Information

Project Name: 1585 Hertel
Project Location:
Project #
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 4 Day

Deliverables

☐ ASP-A
☐ EQuIS (1 File)
☑ Other

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: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Alpha Reference# L1833795

Please specify Metals or TAL.

ANALYSIS

SUB-Total Halogens

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SUB-Total Halogens	Comments	Total Bottle
	UST #5 Tank Water	8/27/2018	16:45	water	TAB	X		2
	* 2 1000mL Jars							

8/29/18 1402

	Y	N	Initials
Custody Seals Present?		✓	
(if present) Seals Intact?			
Received on Ice?	✓		
COC/Lbls Complete	✓		
Cont in Good Cond?	✓		
Correct Containers?	✓		
Correct Samp Vol?	✓		
Correct Preservation?	✓		
Headspace/Volatiles?			

Cooler Temp: 5 °C
Cooler #:
Therm ID: 359
Ship Carrier
FedEx UPS
DHL
Tracking #: 12E30 654 01 9799 3535

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	D								

Relinquished By:	Date/Time	Received By:	Date/Time
AHL	8/28/18 1200	COMMON COURIER / ALS COURIER	
~~COMMON COURIER / ALS COURIER~~	8/29/18 1028		8/29/18 1028

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.

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

Serial_No:09071820:05

ANALYTICAL REPORT

Lab Number:	L1833991
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	0437-017-001-005-002
Report Date:	08/31/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833991-01	MW-4 B-1 10'	SOIL	BUFFALO, NY	08/28/18 09:24	08/28/18
L1833991-02	MW-4 SW-1 (8-10)	SOIL	BUFFALO, NY	08/28/18 09:34	08/28/18
L1833991-03	MW-4 SW-2 (8-10)	SOIL	BUFFALO, NY	08/28/18 11:48	08/28/18
L1833991-04	MW-4 SW-3 (8-10)	SOIL	BUFFALO, NY	08/28/18 09:22	08/28/18
L1833991-05	MW-4 SW-4 (8-10)	SOIL	BUFFALO, NY	08/28/18 11:34	08/28/18
L1833991-06	FA-SW-1 3.5'	SOIL	BUFFALO, NY	08/28/18 14:34	08/28/18
L1833991-07	FA-SW-2 4.5'	SOIL	BUFFALO, NY	08/28/18 14:21	08/28/18
L1833991-08	FA-B-1 7.0'	SOIL	BUFFALO, NY	08/28/18 14:44	08/28/18
L1833991-09	UST-4/MW-1 SW-1 (0-2)	SOIL	BUFFALO, NY	08/28/18 10:30	08/28/18
L1833991-10	UST-4/MW-1 SW-2 (0-2)	SOIL	BUFFALO, NY	08/28/18 10:35	08/28/18
L1833991-11	UST-4/MW-4 SW-3 (0-2)	SOIL	BUFFALO, NY	08/28/18 10:48	08/28/18
L1833991-12	UST-4/MW-4 SW-1 (4-7)	SOIL	BUFFALO, NY	08/28/18 11:57	08/28/18
L1833991-13	UST-4/MW-4 SW-2 (4-7)	SOIL	BUFFALO, NY	08/28/18 12:02	08/28/18
L1833991-14	UST-4/MW-4 SW-3 (4-7)	SOIL	BUFFALO, NY	08/28/18 12:06	08/28/18
L1833991-15	UST-4/MW-4 SW-4 (4-7)	SOIL	BUFFALO, NY	08/28/18 12:08	08/28/18
L1833991-16	UST-4/MW-4 B-1 (8-12)	SOIL	BUFFALO, NY	08/28/18 15:25	08/28/18
L1833991-17	UST-4/MW-4 SW-1 (8-12)	SOIL	BUFFALO, NY	08/28/18 14:59	08/28/18
L1833991-18	UST-4/MW-1 SW-2 (8-12)	SOIL	BUFFALO, NY	08/28/18 15:03	08/28/18
L1833991-19	BLIND DUP #4	SOIL	BUFFALO, NY	08/28/18 16:00	08/28/18
L1833991-20	UST-4/MW-4 SW-3 (8-12)	SOIL	BUFFALO, NY	08/28/18 15:10	08/28/18
L1833991-21	UST-4/MW-1 SW-4 (8-12)	SOIL	BUFFALO, NY	08/28/18 15:18	08/28/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

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: 1585 HERTEL AVE. **Lab Number:** L1833991
Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Case Narrative (continued)

Report Submission

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

Sample Receipt

L1833991-18: The sample identified as "UST-4/MW-4 SW-2 (8-12)" on the chain of custody was identified as "UST-4/MW-1 SW-2 (8-12)" on the container label. At the client's request, the sample is reported as "UST-4/MW-1 SW-2 (8-12)".

Total Metals

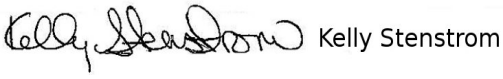
L1833991-09, -10, -11, and -16 through -21: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1152472-3/-4 MS/MSD recoveries for aluminum (612%/343%), calcium (0%/0%), iron (0%/0%), magnesium (MS 0%), and manganese (0%/0%), performed on L1833991-17, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1152472-3/-4 MS/MSD recoveries, performed on L1833991-17, are outside the acceptance criteria for cobalt (73%/74%), potassium (MS 131%), and zinc (MSD 74%). A post digestion spike was performed and was within acceptance criteria.

The WG1152472-3/-4 MS/MSD recoveries, performed on L1833991-17, are outside the acceptance criteria for lead (74%/74%) and thallium (73%/73%). A post digestion spike was performed and yielded unacceptable recoveries for lead (78%) and thallium (77%). The serial dilution recoveries were not acceptable; therefore, these elements fail the matrix test and the results reported in the native sample should be considered estimated.

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

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 08/31/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-01
Client ID: MW-4 B-1 10'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 09:24
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 22:57
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.6	J	ug/kg	4.5	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.89	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.89	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.89	0.11	1
Dibromochloromethane	ND		ug/kg	0.89	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.89	0.24	1
Tetrachloroethene	ND		ug/kg	0.45	0.17	1
Chlorobenzene	ND		ug/kg	0.45	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.62	1
1,2-Dichloroethane	ND		ug/kg	0.89	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.45	0.15	1
Bromodichloromethane	ND		ug/kg	0.45	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.89	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.45	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.45	0.15	1
Benzene	ND		ug/kg	0.45	0.15	1
Toluene	ND		ug/kg	0.89	0.48	1
Ethylbenzene	ND		ug/kg	0.89	0.12	1
Chloromethane	ND		ug/kg	3.6	0.83	1
Bromomethane	ND		ug/kg	1.8	0.52	1
Vinyl chloride	ND		ug/kg	0.89	0.30	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.89	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.45	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-01 Date Collected: 08/28/18 09:24

Client ID: MW-4 B-1 10' Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.50	1
o-Xylene	ND		ug/kg	0.89	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.89	0.16	1
Styrene	ND		ug/kg	0.89	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.9	0.82	1
Acetone	ND		ug/kg	8.9	4.3	1
Carbon disulfide	ND		ug/kg	8.9	4.0	1
2-Butanone	ND		ug/kg	8.9	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	8.9	1.1	1
2-Hexanone	ND		ug/kg	8.9	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.89	0.25	1
n-Butylbenzene	ND		ug/kg	0.89	0.15	1
sec-Butylbenzene	ND		ug/kg	0.89	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.89	1
Isopropylbenzene	ND		ug/kg	0.89	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.89	0.10	1
n-Propylbenzene	ND		ug/kg	0.89	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
Methyl Acetate	ND		ug/kg	3.6	0.85	1
Cyclohexane	ND		ug/kg	8.9	0.48	1
1,4-Dioxane	ND		ug/kg	89	31.	1
Freon-113	ND		ug/kg	3.6	0.62	1
Methyl cyclohexane	ND		ug/kg	3.6	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-02
Client ID: MW-4 SW-1 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 09:34
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 23:22
Analyst: MV
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.0	J	ug/kg	4.9	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.49	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-02 Date Collected: 08/28/18 09:34

Client ID: MW-4 SW-1 (8-10) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.55	1
o-Xylene	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.90	1
Acetone	5.7	J	ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
n-Propylbenzene	ND		ug/kg	0.99	0.17	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	9.9	0.54	1
1,4-Dioxane	ND		ug/kg	99	35.	1
Freon-113	ND		ug/kg	4.0	0.68	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-03
Client ID: MW-4 SW-2 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 11:48
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 23:48
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.6	J	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	0.29	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	0.65	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: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-03 Date Collected: 08/28/18 11:48

Client ID: MW-4 SW-2 (8-10) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	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
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	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	110	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	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-04
Client ID: MW-4 SW-3 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 09:22
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 00:14
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	4.6	J	ug/kg	5.6	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	0.56	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	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	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	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	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: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-04 Date Collected: 08/28/18 09:22

Client ID: MW-4 SW-3 (8-10) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	17		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	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
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
Methyl Acetate	ND		ug/kg	4.5	1.0	1
Cyclohexane	ND		ug/kg	11	0.61	1
1,4-Dioxane	ND		ug/kg	110	39.	1
Freon-113	ND		ug/kg	4.5	0.77	1
Methyl cyclohexane	ND		ug/kg	4.5	0.67	1

Tentatively Identified Compounds				
Total TIC Compounds	9.03	J	ug/kg	1
Unknown Alkane	2.26	J	ug/kg	1
Pentane, 2,3,3-trimethyl-	6.77	NJ	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-04 Date Collected: 08/28/18 09:22

Client ID: MW-4 SW-3 (8-10) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-05
Client ID: MW-4 SW-4 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 11:34
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 00:40
Analyst: MV
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	4.1	J	ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.21	1
Benzene	ND		ug/kg	0.62	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-05 Date Collected: 08/28/18 11:34

Client ID: MW-4 SW-4 (8-10) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	1.6	J	ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	27		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
Methyl Acetate	ND		ug/kg	5.0	1.2	1
Cyclohexane	ND		ug/kg	12	0.68	1
1,4-Dioxane	ND		ug/kg	120	44.	1
Freon-113	ND		ug/kg	5.0	0.86	1
Methyl cyclohexane	ND		ug/kg	5.0	0.75	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-06
Client ID: FA-SW-1 3.5'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:34
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 01:06
Analyst: MV
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.7	J	ug/kg	5.6	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	0.55	J	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	0.65	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	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-06 Date Collected: 08/28/18 14:34

Client ID: FA-SW-1 3.5' Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	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
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	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	110	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	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-07
Client ID: FA-SW-2 4.5'
Sample Location: BUFFALO, NY
Date Collected: 08/28/18 14:21
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 01:32
Analyst: MV
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.6	J	ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-07 Date Collected: 08/28/18 14:21

Client ID: FA-SW-2 4.5' Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	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	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.4	1
2-Butanone	ND		ug/kg	9.8	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.98	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
n-Propylbenzene	ND		ug/kg	0.98	0.17	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	3.9	0.93	1
Cyclohexane	ND		ug/kg	9.8	0.53	1
1,4-Dioxane	ND		ug/kg	98	34.	1
Freon-113	ND		ug/kg	3.9	0.68	1
Methyl cyclohexane	ND		ug/kg	3.9	0.59	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-08
Client ID: FA-B-1 7.0'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:44
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 01:58
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	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	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	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	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-08 Date Collected: 08/28/18 14:44

Client ID: FA-B-1 7.0' Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	0.39	J	ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	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	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	100	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	ND		ug/kg	4.1	0.62	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-08 Date Collected: 08/28/18 14:44

Client ID: FA-B-1 7.0' Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-09
Client ID: UST-4/MW-1 SW-1 (0-2)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 10:30
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 02:24
Analyst: MV
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	4.9	J	ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	0.19	J	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	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		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	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-09 Date Collected: 08/28/18 10:30

Client ID: UST-4/MW-1 SW-1 (0-2) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	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	55		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
Bromochloromethane	ND		ug/kg	2.6	0.27	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
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
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	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
1,4-Dioxane	ND		ug/kg	130	46.	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	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-10
Client ID: UST-4/MW-1 SW-2 (0-2)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 10:35
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 02:50
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.8	J	ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.19	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	0.99	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	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	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	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: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-10 Date Collected: 08/28/18 10:35

Client ID: UST-4/MW-1 SW-2 (0-2) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	43		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	4.2	J	ug/kg	9.9	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
n-Propylbenzene	ND		ug/kg	0.99	0.17	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	9.9	0.54	1
1,4-Dioxane	ND		ug/kg	99	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	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-11
Client ID: UST-4/MW-4 SW-3 (0-2)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 10:48
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 15:21
Analyst: AD
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	5.1	J	ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.70	0.28	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.98	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.23	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.82	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-11 Date Collected: 08/28/18 10:48

Client ID: UST-4/MW-4 SW-3 (0-2) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.79	1
o-Xylene	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.8	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
Methyl Acetate	ND		ug/kg	5.6	1.3	1
Cyclohexane	ND		ug/kg	14	0.76	1
1,4-Dioxane	ND		ug/kg	140	49.	1
Freon-113	ND		ug/kg	5.6	0.97	1
Methyl cyclohexane	ND		ug/kg	5.6	0.85	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-12
Client ID: UST-4/MW-4 SW-1 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 11:57
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 11:27
Analyst: MV
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.3	J	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	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		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	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-12 Date Collected: 08/28/18 11:57

Client ID: UST-4/MW-4 SW-1 (4-7) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	24		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
Bromochloromethane	ND		ug/kg	2.6	0.27	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
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
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.43	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
1,4-Dioxane	ND		ug/kg	130	46.	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	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	97		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-13
Client ID: UST-4/MW-4 SW-2 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 12:02
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 11:53
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.5	J	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	0.27	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	ND		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: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-13 Date Collected: 08/28/18 12:02

Client ID: UST-4/MW-4 SW-2 (4-7) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	8.9	J	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
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.14	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
n-Propylbenzene	ND		ug/kg	1.0	0.17	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		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
1,4-Dioxane	ND		ug/kg	100	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Tentatively Identified Compounds				
Total TIC Compounds	6.59	J	ug/kg	1
Unknown Alkane	4.57	J	ug/kg	1
Unknown Alkane	2.02	J	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-13 Date Collected: 08/28/18 12:02

Client ID: UST-4/MW-4 SW-2 (4-7) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-14
Client ID: UST-4/MW-4 SW-3 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 12:06
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 12:19
Analyst: AD
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	4.0	J	ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.70	0.27	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.97	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.23	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.81	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.63	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-14 Date Collected: 08/28/18 12:06

Client ID: UST-4/MW-4 SW-3 (4-7) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.78	1
o-Xylene	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.7	1
Carbon disulfide	ND		ug/kg	14	6.3	1
2-Butanone	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.46	1
Methyl Acetate	ND		ug/kg	5.6	1.3	1
Cyclohexane	ND		ug/kg	14	0.76	1
1,4-Dioxane	ND		ug/kg	140	49.	1
Freon-113	ND		ug/kg	5.6	0.96	1
Methyl cyclohexane	ND		ug/kg	5.6	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-15
Client ID: UST-4/MW-4 SW-4 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 12:08
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 12:45
Analyst: AD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.1	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.71	0.28	1
Chlorobenzene	ND		ug/kg	0.71	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.98	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.71	0.24	1
Bromodichloromethane	ND		ug/kg	0.71	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.71	0.22	1
Bromoform	ND		ug/kg	5.7	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.71	0.23	1
Benzene	ND		ug/kg	0.71	0.23	1
Toluene	ND		ug/kg	1.4	0.77	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.7	1.3	1
Bromomethane	ND		ug/kg	2.8	0.82	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1
Trichloroethene	ND		ug/kg	0.71	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-15 Date Collected: 08/28/18 12:08

Client ID: UST-4/MW-4 SW-4 (4-7) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.79	1
o-Xylene	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	12	J	ug/kg	14	6.8	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
Methyl Acetate	ND		ug/kg	5.7	1.3	1
Cyclohexane	ND		ug/kg	14	0.77	1
1,4-Dioxane	ND		ug/kg	140	50.	1
Freon-113	ND		ug/kg	5.7	0.98	1
Methyl cyclohexane	ND		ug/kg	5.7	0.85	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-16
Client ID: UST-4/MW-4 B-1 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:25
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 13:11
Analyst: AD
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.12	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-16 Date Collected: 08/28/18 15:25

Client ID: UST-4/MW-4 B-1 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.52	1
o-Xylene	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	6.8	J	ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
Methyl Acetate	ND		ug/kg	3.7	0.88	1
Cyclohexane	ND		ug/kg	9.2	0.50	1
1,4-Dioxane	ND		ug/kg	92	32.	1
Freon-113	ND		ug/kg	3.7	0.64	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-17
Client ID: UST-4/MW-4 SW-1 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:59
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 16:39
Analyst: AD
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-17 Date Collected: 08/28/18 14:59

Client ID: UST-4/MW-4 SW-1 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	14		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	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	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	100	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-17 Date Collected: 08/28/18 14:59

Client ID: UST-4/MW-4 SW-1 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-18
Client ID: UST-4/MW-1 SW-2 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:03
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 13:37
Analyst: AD
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-18 Date Collected: 08/28/18 15:03

Client ID: UST-4/MW-1 SW-2 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	16		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.8	0.91	1
Cyclohexane	ND		ug/kg	9.6	0.52	1
1,4-Dioxane	ND		ug/kg	96	34.	1
Freon-113	ND		ug/kg	3.8	0.66	1
Methyl cyclohexane	ND		ug/kg	3.8	0.58	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-18 Date Collected: 08/28/18 15:03

Client ID: UST-4/MW-1 SW-2 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	9.72	J	ug/kg			1
Unknown	2.21	J	ug/kg			1
Unknown	4.35	J	ug/kg			1
Unknown	3.16	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-19
Client ID: BLIND DUP #4
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 16:00
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 14:03
Analyst: AD
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	4.5	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	4.5	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	4.5	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	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-19 Date Collected: 08/28/18 16:00

Client ID: BLIND DUP #4 Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	ND		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
Bromochloromethane	ND		ug/kg	2.3	0.23	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	0.16	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
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
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	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
1,4-Dioxane	ND		ug/kg	110	40.	1
Freon-113	ND		ug/kg	4.5	0.79	1
Methyl cyclohexane	ND		ug/kg	4.5	0.68	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-19 Date Collected: 08/28/18 16:00

Client ID: BLIND DUP #4 Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-20
Client ID: UST-4/MW-4 SW-3 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:10
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 14:29
Analyst: AD
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	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	0.31	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	0.80	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	0.67	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: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-20 Date Collected: 08/28/18 15:10

Client ID: UST-4/MW-4 SW-3 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	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	47		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	1.5	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	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
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
n-Propylbenzene	ND		ug/kg	1.1	0.20	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
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
1,4-Dioxane	ND		ug/kg	110	40.	1
Freon-113	ND		ug/kg	4.6	0.80	1
Methyl cyclohexane	ND		ug/kg	4.6	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-21
Client ID: UST-4/MW-1 SW-4 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:18
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/30/18 14:55
Analyst: AD
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.93	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	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	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-21 Date Collected: 08/28/18 15:18

Client ID: UST-4/MW-1 SW-4 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	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	22		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.27	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	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.4	1.3	1
Cyclohexane	ND		ug/kg	13	0.73	1
1,4-Dioxane	ND		ug/kg	130	47.	1
Freon-113	ND		ug/kg	5.4	0.93	1
Methyl cyclohexane	ND		ug/kg	5.4	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/29/18 20:20
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-10 Batch: WG1152144-5					
Methylene chloride	2.3	J	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	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: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/29/18 20:20
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-10 Batch: WG1152144-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.35	J	ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/29/18 20:20
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-10 Batch: WG1152144-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/30/18 08:51
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11-21 Batch: WG1152332-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/30/18 08:51
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11-21 Batch: WG1152332-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/30/18 08:51
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11-21 Batch: WG1152332-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-10 Batch: WG1152144-3 WG1152144-4								
Methylene chloride	88		89		70-130	1		30
1,1-Dichloroethane	92		94		70-130	2		30
Chloroform	94		96		70-130	2		30
Carbon tetrachloride	94		96		70-130	2		30
1,2-Dichloropropane	95		96		70-130	1		30
Dibromochloromethane	94		94		70-130	0		30
1,1,2-Trichloroethane	96		96		70-130	0		30
Tetrachloroethene	95		96		70-130	1		30
Chlorobenzene	91		92		70-130	1		30
Trichlorofluoromethane	89		91		70-139	2		30
1,2-Dichloroethane	94		95		70-130	1		30
1,1,1-Trichloroethane	96		98		70-130	2		30
Bromodichloromethane	96		97		70-130	1		30
trans-1,3-Dichloropropene	90		89		70-130	1		30
cis-1,3-Dichloropropene	98		99		70-130	1		30
Bromoform	91		91		70-130	0		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	93		94		70-130	1		30
Toluene	92		94		70-130	2		30
Ethylbenzene	93		94		70-130	1		30
Chloromethane	83		82		52-130	1		30
Bromomethane	90		90		57-147	0		30
Vinyl chloride	86		86		67-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-10 Batch: WG1152144-3 WG1152144-4								
Chloroethane	90		91		50-151	1		30
1,1-Dichloroethene	90		92		65-135	2		30
trans-1,2-Dichloroethene	92		92		70-130	0		30
Trichloroethene	96		96		70-130	0		30
1,2-Dichlorobenzene	90		92		70-130	2		30
1,3-Dichlorobenzene	93		93		70-130	0		30
1,4-Dichlorobenzene	93		93		70-130	0		30
Methyl tert butyl ether	89		90		66-130	1		30
p/m-Xylene	93		94		70-130	1		30
o-Xylene	92		94		70-130	2		30
cis-1,2-Dichloroethene	92		93		70-130	1		30
Styrene	90		92		70-130	2		30
Dichlorodifluoromethane	71		71		30-146	0		30
Acetone	90		87		54-140	3		30
Carbon disulfide	87		87		59-130	0		30
2-Butanone	80		83		70-130	4		30
4-Methyl-2-pentanone	85		85		70-130	0		30
2-Hexanone	86		86		70-130	0		30
Bromochloromethane	95		97		70-130	2		30
1,2-Dibromoethane	96		95		70-130	1		30
n-Butylbenzene	97		97		70-130	0		30
sec-Butylbenzene	95		96		70-130	1		30
1,2-Dibromo-3-chloropropane	82		81		68-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-10 Batch: WG1152144-3 WG1152144-4								
Isopropylbenzene	94		95		70-130	1		30
p-Isopropyltoluene	92		94		70-130	2		30
n-Propylbenzene	96		97		70-130	1		30
1,2,3-Trichlorobenzene	88		87		70-130	1		30
1,2,4-Trichlorobenzene	91		90		70-130	1		30
1,3,5-Trimethylbenzene	92		94		70-130	2		30
1,2,4-Trimethylbenzene	91		92		70-130	1		30
Methyl Acetate	87		86		51-146	1		30
Cyclohexane	95		97		59-142	2		30
1,4-Dioxane	113		109		65-136	4		30
Freon-113	86		87		50-139	1		30
Methyl cyclohexane	94		95		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11-21 Batch: WG1152332-3 WG1152332-4								
Methylene chloride	88		86		70-130	2		30
1,1-Dichloroethane	93		92		70-130	1		30
Chloroform	95		93		70-130	2		30
Carbon tetrachloride	93		91		70-130	2		30
1,2-Dichloropropane	99		97		70-130	2		30
Dibromochloromethane	95		97		70-130	2		30
1,1,2-Trichloroethane	99		101		70-130	2		30
Tetrachloroethene	91		89		70-130	2		30
Chlorobenzene	91		89		70-130	2		30
Trichlorofluoromethane	89		85		70-139	5		30
1,2-Dichloroethane	96		97		70-130	1		30
1,1,1-Trichloroethane	94		91		70-130	3		30
Bromodichloromethane	98		98		70-130	0		30
trans-1,3-Dichloropropene	91		91		70-130	0		30
cis-1,3-Dichloropropene	100		100		70-130	0		30
Bromoform	93		95		70-130	2		30
1,1,2,2-Tetrachloroethane	99		102		70-130	3		30
Benzene	93		91		70-130	2		30
Toluene	91		89		70-130	2		30
Ethylbenzene	91		88		70-130	3		30
Chloromethane	85		82		52-130	4		30
Bromomethane	90		86		57-147	5		30
Vinyl chloride	86		82		67-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11-21 Batch: WG1152332-3 WG1152332-4								
Chloroethane	90		85		50-151	6		30
1,1-Dichloroethene	87		84		65-135	4		30
trans-1,2-Dichloroethene	90		87		70-130	3		30
Trichloroethene	94		92		70-130	2		30
1,2-Dichlorobenzene	92		91		70-130	1		30
1,3-Dichlorobenzene	92		91		70-130	1		30
1,4-Dichlorobenzene	93		91		70-130	2		30
Methyl tert butyl ether	90		94		66-130	4		30
p/m-Xylene	92		89		70-130	3		30
o-Xylene	92		89		70-130	3		30
cis-1,2-Dichloroethene	92		90		70-130	2		30
Styrene	90		89		70-130	1		30
Dichlorodifluoromethane	74		70		30-146	6		30
Acetone	84		84		54-140	0		30
Carbon disulfide	85		82		59-130	4		30
2-Butanone	84		84		70-130	0		30
4-Methyl-2-pentanone	87		92		70-130	6		30
2-Hexanone	87		91		70-130	4		30
Bromochloromethane	98		96		70-130	2		30
1,2-Dibromoethane	97		99		70-130	2		30
n-Butylbenzene	96		91		70-130	5		30
sec-Butylbenzene	93		89		70-130	4		30
1,2-Dibromo-3-chloropropane	83		90		68-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11-21 Batch: WG1152332-3 WG1152332-4								
Isopropylbenzene	92		89		70-130	3		30
p-Isopropyltoluene	91		87		70-130	4		30
n-Propylbenzene	94		90		70-130	4		30
1,2,3-Trichlorobenzene	90		88		70-130	2		30
1,2,4-Trichlorobenzene	90		88		70-130	2		30
1,3,5-Trimethylbenzene	92		88		70-130	4		30
1,2,4-Trimethylbenzene	91		88		70-130	3		30
Methyl Acetate	86		95		51-146	10		30
Cyclohexane	96		92		59-142	4		30
1,4-Dioxane	107		107		65-136	0		30
Freon-113	86		82		50-139	5		30
Methyl cyclohexane	94		91		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	100		101		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11-21 QC Batch ID: WG1152332-6 WG1152332-7 QC Sample: L1833991-17 Client ID: UST-4/MW-4 SW-1 (8-12)												
Methylene chloride	ND	135	110	79		91	79		70-130	17		30
1,1-Dichloroethane	ND	135	120	92		110	93		70-130	15		30
Chloroform	ND	135	120	87		100	90		70-130	14		30
Carbon tetrachloride	ND	135	130	93		110	97		70-130	12		30
1,2-Dichloropropane	ND	135	120	87		110	93		70-130	11		30
Dibromochloromethane	ND	135	110	79		99	87		70-130	8		30
1,1,2-Trichloroethane	ND	135	110	84		100	88		70-130	12		30
Tetrachloroethene	ND	135	86	**64**	Q	91	79		70-130	5		30
Chlorobenzene	ND	135	79	**58**	Q	84	73		70-130	6		30
Trichlorofluoromethane	ND	135	130	98		110	98		70-139	16		30
1,2-Dichloroethane	ND	135	110	84		99	87		70-130	14		30
1,1,1-Trichloroethane	ND	135	130	94		110	97		70-130	13		30
Bromodichloromethane	ND	135	120	87		110	92		70-130	11		30
trans-1,3-Dichloropropene	ND	135	96	71		91	80		70-130	5		30
cis-1,3-Dichloropropene	ND	135	110	82		100	91		70-130	7		30
Bromoform	ND	135	100	76		96	84		70-130	7		30
1,1,2,2-Tetrachloroethane	ND	135	100	76		95	83		70-130	9		30
Benzene	ND	135	110	84		100	89		70-130	10		30
Toluene	ND	135	95	70		92	81		70-130	2		30
Ethylbenzene	ND	135	78	**58**	Q	87	76		70-130	10		30
Chloromethane	ND	135	120	90		100	89		52-130	17		30
Bromomethane	ND	135	110	84		97	84		57-147	15		30
Vinyl chloride	ND	135	130	98		110	99		67-130	16		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11-21 QC Batch ID: WG1152332-6 WG1152332-7 QC Sample: L1833991-17 Client ID: UST-4/MW-4 SW-1 (8-12)												
Chloroethane	ND	135	130	94		110	93		50-151	17		30
1,1-Dichloroethene	ND	135	130	94		110	94		65-135	16		30
trans-1,2-Dichloroethene	ND	135	120	87		100	90		70-130	13		30
Trichloroethene	ND	135	110	82		110	92		70-130	6		30
1,2-Dichlorobenzene	ND	135	59	**44**	Q	73	**64**	Q	70-130	21		30
1,3-Dichlorobenzene	ND	135	55	**40**	Q	71	**62**	Q	70-130	27		30
1,4-Dichlorobenzene	ND	135	53	**39**	Q	69	**60**	Q	70-130	26		30
Methyl tert butyl ether	ND	135	120	87		99	86		66-130	18		30
p/m-Xylene	ND	270	150	**55**	Q	170	73		70-130	12		30
o-Xylene	ND	270	150	**57**	Q	170	74		70-130	9		30
cis-1,2-Dichloroethene	ND	135	110	84		100	87		70-130	12		30
Styrene	ND	270	150	**54**	Q	170	72		70-130	12		30
Dichlorodifluoromethane	ND	135	110	83		93	81		30-146	19		30
Acetone	14	135	130	83		100	78		54-140	20		30
Carbon disulfide	ND	135	120	85		100	87		59-130	14		30
2-Butanone	ND	135	110	84		99	86		70-130	14		30
4-Methyl-2-pentanone	ND	135	120	86		99	86		70-130	16		30
2-Hexanone	ND	135	120	90		100	90		70-130	16		30
Bromochloromethane	ND	135	120	87		100	88		70-130	15		30
1,2-Dibromoethane	ND	135	110	78		98	86		70-130	8		30
n-Butylbenzene	ND	135	43	**32**	Q	68	**60**	Q	70-130	**45**	Q	30
sec-Butylbenzene	ND	135	56	**41**	Q	77	**67**	Q	70-130	**31**	Q	30
1,2-Dibromo-3-chloropropane	ND	135	88	**65**	Q	83	73		68-130	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11-21 QC Batch ID: WG1152332-6 WG1152332-7 QC Sample: L1833991-17 Client ID: UST-4/MW-4 SW-1 (8-12)												
Isopropylbenzene	ND	135	71	**52**	Q	84	74		70-130	17		30
p-Isopropyltoluene	ND	135	50	**37**	Q	71	**62**	Q	70-130	**35**	Q	30
n-Propylbenzene	ND	135	60	**44**	Q	79	**69**	Q	70-130	27		30
1,2,3-Trichlorobenzene	ND	135	42	**31**	Q	56	**49**	Q	70-130	28		30
1,2,4-Trichlorobenzene	ND	135	40	**30**	Q	57	**50**	Q	70-130	**34**	Q	30
1,3,5-Trimethylbenzene	ND	135	60	**44**	Q	76	**66**	Q	70-130	23		30
1,2,4-Trimethylbenzene	ND	135	57	**42**	Q	74	**65**	Q	70-130	26		30
Methyl Acetate	ND	135	140	103		120	103		51-146	16		30
Cyclohexane	ND	135	130	98		120	103		59-142	12		30
1,4-Dioxane	ND	6750	8000	118		7000	122		65-136	14		30
Freon-113	ND	135	120	91		100	90		50-139	18		30
Methyl cyclohexane	ND	135	110	83		110	93		70-130	6		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		102		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	103		101		70-130
Toluene-d8	101		100		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-01
Client ID: MW-4 B-1 10'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 09:24
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 22:58
Analyst: CB
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-01 Date Collected: 08/28/18 09:24

Client ID: MW-4 B-1 10' Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	71		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-02
Client ID: MW-4 SW-1 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 09:34
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 06:07
Analyst: CB
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

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
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-02 Date Collected: 08/28/18 09:34

Client ID: MW-4 SW-1 (8-10) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	89		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-03
Client ID: MW-4 SW-2 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 11:48
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 23:24
Analyst: CB
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-03 Date Collected: 08/28/18 11:48

Client ID: MW-4 SW-2 (8-10) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	79		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-04
Client ID: MW-4 SW-3 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 09:22
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 23:49
Analyst: CB
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	27.	1
Pyrene	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-04 Date Collected: 08/28/18 09:22

Client ID: MW-4 SW-3 (8-10) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	87		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-05
Client ID: MW-4 SW-4 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 11:34
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 00:14
Analyst: CB
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

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	22.	1
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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	290	32.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-05 Date Collected: 08/28/18 11:34

Client ID: MW-4 SW-4 (8-10) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	94		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-06
Client ID: FA-SW-1 3.5'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:34
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 00:39
Analyst: CB
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	ND		ug/kg	130	24.	1
Naphthalene	ND		ug/kg	210	26.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-06 Date Collected: 08/28/18 14:34

Client ID: FA-SW-1 3.5' Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	93		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-07
Client ID: FA-SW-2 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:21
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 01:05
Analyst: CB
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	200	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-07 Date Collected: 08/28/18 14:21

Client ID: FA-SW-2 4.5' Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	86		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-08
Client ID: FA-B-1 7.0'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:44
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 05:42
Analyst: CB
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

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
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	18.	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

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-08 Date Collected: 08/28/18 14:44

Client ID: FA-B-1 7.0' Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	71		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-09
Client ID: UST-4/MW-1 SW-1 (0-2)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 10:30
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 06:33
Analyst: CB
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Fluoranthene	ND		ug/kg	120	24.	1
Naphthalene	ND		ug/kg	210	26.	1
Benzo(a)anthracene	ND		ug/kg	120	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	34.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-09 Date Collected: 08/28/18 10:30

Client ID: UST-4/MW-1 SW-1 (0-2) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	87		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-10
Client ID: UST-4/MW-1 SW-2 (0-2)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 10:35
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 06:58
Analyst: CB
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

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	120	22.	1
Fluoranthene	68	J	ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	53	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	70	J	ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	130		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	49	J	ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	23	J	ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	40	J	ug/kg	150	27.	1
Pyrene	93	J	ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-10 Date Collected: 08/28/18 10:35

Client ID: UST-4/MW-1 SW-2 (0-2) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	80		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-11
Client ID: UST-4/MW-4 SW-3 (0-2)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 10:48
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 07:23
Analyst: CB
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	1100		ug/kg	130	25.	1
Naphthalene	ND		ug/kg	210	26.	1
Benzo(a)anthracene	420		ug/kg	130	24.	1
Benzo(a)pyrene	520		ug/kg	170	52.	1
Benzo(b)fluoranthene	740		ug/kg	130	36.	1
Benzo(k)fluoranthene	320		ug/kg	130	34.	1
Chrysene	560		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	58	J	ug/kg	130	42.	1
Benzo(ghi)perylene	420		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	370		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	79	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	420		ug/kg	170	30.	1
Pyrene	900		ug/kg	130	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-11 Date Collected: 08/28/18 10:48

Client ID: UST-4/MW-4 SW-3 (0-2) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-12
Client ID: UST-4/MW-4 SW-1 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 11:57
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 04:01
Analyst: CB
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Fluoranthene	ND		ug/kg	130	26.	1
Naphthalene	ND		ug/kg	220	27.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	38.	1
Benzo(k)fluoranthene	ND		ug/kg	130	36.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	44.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Dibenzofuran	ND		ug/kg	220	21.	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-12 Date Collected: 08/28/18 11:57

Client ID: UST-4/MW-4 SW-1 (4-7) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	72		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-13
Client ID: UST-4/MW-4 SW-2 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 12:02
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 04:26
Analyst: CB
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:53

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
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	25.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-13 Date Collected: 08/28/18 12:02

Client ID: UST-4/MW-4 SW-2 (4-7) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	101		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-14
Client ID: UST-4/MW-4 SW-3 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 12:06
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 01:30
Analyst: CB
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:53

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-14 Date Collected: 08/28/18 12:06

Client ID: UST-4/MW-4 SW-3 (4-7) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	84		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-15
Client ID: UST-4/MW-4 SW-4 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 12:08
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 02:20
Analyst: CB
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:53

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	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-15 Date Collected: 08/28/18 12:08

Client ID: UST-4/MW-4 SW-4 (4-7) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	96		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-16
Client ID: UST-4/MW-4 B-1 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:25
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 01:55
Analyst: CB
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:53

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-16 Date Collected: 08/28/18 15:25

Client ID: UST-4/MW-4 B-1 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	86		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-17
Client ID: UST-4/MW-4 SW-1 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:59
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 03:36
Analyst: CB
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:53

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	20.	1
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	150	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	29.	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-17 Date Collected: 08/28/18 14:59

Client ID: UST-4/MW-4 SW-1 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	77		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-18
Client ID: UST-4/MW-1 SW-2 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:03
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 04:52
Analyst: CB
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	31	J	ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	24	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-18 Date Collected: 08/28/18 15:03

Client ID: UST-4/MW-1 SW-2 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	83		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-19
Client ID: BLIND DUP #4
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 16:00
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/30/18 05:17
Analyst: CB
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:53

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
Fluoranthene	34	J	ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	28	J	ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-19 Date Collected: 08/28/18 16:00

Client ID: BLIND DUP #4 Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	91		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-20
Client ID: UST-4/MW-4 SW-3 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:10
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 19:07
Analyst: RC
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:39

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	22.	1
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	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	290	31.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-20 Date Collected: 08/28/18 15:10

Client ID: UST-4/MW-4 SW-3 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	58		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-21
Client ID: UST-4/MW-1 SW-4 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:18
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 18:41
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:39

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
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		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	ND		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-21 Date Collected: 08/28/18 15:18

Client ID: UST-4/MW-1 SW-4 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	55		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/29/18 16:53
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/29/18 02:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1151579-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833991
Report Date: 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/29/18 16:53
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/29/18 02:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1151579-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	98		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/29/18 21:43
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-19 Batch: WG1151702-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
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.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833991
Report Date: 08/31/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/29/18 21:43
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 08/29/18 09:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-19 Batch: WG1151702-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	85		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1151579-2 WG1151579-3								
Acenaphthene	77		83		31-137	8		50
Hexachlorobenzene	81		86		40-140	6		50
Fluoranthene	79		94		40-140	17		50
Naphthalene	74		83		40-140	11		50
Benzo(a)anthracene	67		80		40-140	18		50
Benzo(a)pyrene	77		89		40-140	14		50
Benzo(b)fluoranthene	79		90		40-140	13		50
Benzo(k)fluoranthene	79		91		40-140	14		50
Chrysene	76		85		40-140	11		50
Acenaphthylene	76		89		40-140	16		50
Anthracene	78		91		40-140	15		50
Benzo(ghi)perylene	80		94		40-140	16		50
Fluorene	74		87		40-140	16		50
Phenanthrene	73		84		40-140	14		50
Dibenzo(a,h)anthracene	78		87		40-140	11		50
Indeno(1,2,3-cd)pyrene	78		90		40-140	14		50
Pyrene	80		94		35-142	16		50
Dibenzofuran	74		83		40-140	11		50
Pentachlorophenol	61		77		17-109	23		50
Phenol	75		84		26-90	11		50
2-Methylphenol	79		90		30-130.	13		50
3-Methylphenol/4-Methylphenol	75		81		30-130	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1151579-2 WG1151579-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		85		25-120
Phenol-d6	76		86		10-120
Nitrobenzene-d5	72		87		23-120
2-Fluorobiphenyl	77		82		30-120
2,4,6-Tribromophenol	81		89		10-136
4-Terphenyl-d14	77		90		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-19 Batch: WG1151702-2 WG1151702-3								
Acenaphthene	64		70		31-137	9		50
Hexachlorobenzene	69		75		40-140	8		50
Fluoranthene	71		78		40-140	9		50
Naphthalene	63		68		40-140	8		50
Benzo(a)anthracene	65		72		40-140	10		50
Benzo(a)pyrene	71		76		40-140	7		50
Benzo(b)fluoranthene	65		71		40-140	9		50
Benzo(k)fluoranthene	75		81		40-140	8		50
Chrysene	70		77		40-140	10		50
Acenaphthylene	69		76		40-140	10		50
Anthracene	70		76		40-140	8		50
Benzo(ghi)perylene	70		75		40-140	7		50
Fluorene	66		72		40-140	9		50
Phenanthrene	66		73		40-140	10		50
Dibenzo(a,h)anthracene	71		76		40-140	7		50
Indeno(1,2,3-cd)pyrene	68		72		40-140	6		50
Pyrene	71		78		35-142	9		50
Dibenzofuran	67		71		40-140	6		50
Pentachlorophenol	66		74		17-109	11		50
Phenol	62		69		26-90	11		50
2-Methylphenol	64		70		30-130.	9		50
3-Methylphenol/4-Methylphenol	62		68		30-130	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-19 Batch: WG1151702-2 WG1151702-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		66		25-120
Phenol-d6	61		68		10-120
Nitrobenzene-d5	61		67		23-120
2-Fluorobiphenyl	67		74		30-120
2,4,6-Tribromophenol	68		74		10-136
4-Terphenyl-d14	77		86		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1151702-4 WG1151702-5 QC Sample: L1833991-17 Client ID: UST-4/MW-4 SW-1 (8-12)												
Acenaphthene	ND	1460	1000	68		940	63		31-137	6		50
Hexachlorobenzene	ND	1460	1100	75		980	66		40-140	12		50
Fluoranthene	ND	1460	1100	75		1000	67		40-140	10		50
Naphthalene	ND	1460	1000	68		950	64		40-140	5		50
Benzo(a)anthracene	ND	1460	990	68		900	61		40-140	10		50
Benzo(a)pyrene	ND	1460	1000	68		930	63		40-140	7		50
Benzo(b)fluoranthene	ND	1460	1000	68		900	61		40-140	11		50
Benzo(k)fluoranthene	ND	1460	1100	75		980	66		40-140	12		50
Chrysene	ND	1460	1000	68		940	63		40-140	6		50
Acenaphthylene	ND	1460	1100	75		1000	67		40-140	10		50
Anthracene	ND	1460	1100	75		980	66		40-140	12		50
Benzo(ghi)perylene	ND	1460	1000	68		840	57		40-140	17		50
Fluorene	ND	1460	1000	68		950	64		40-140	5		50
Phenanthrene	ND	1460	1000	68		960	65		40-140	4		50
Dibenzo(a,h)anthracene	ND	1460	1000	68		860	58		40-140	15		50
Indeno(1,2,3-cd)pyrene	ND	1460	990	68		820	55		40-140	19		50
Pyrene	ND	1460	1100	75		1000	67		35-142	10		50
Dibenzofuran	ND	1460	1000	68		950	64		40-140	5		50
Pentachlorophenol	ND	1460	1100	75		950	64		17-109	15		50
Phenol	ND	1460	1000	68		990	67		26-90	1		50
2-Methylphenol	ND	1460	1100	75		1000	67		30-130.	10		50
3-Methylphenol/4-Methylphenol	ND	1460	1000	68		980	66		30-130	2		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1151702-4 WG1151702-5 QC Sample: L1833991-17 Client ID: UST-4/MW-4 SW-1 (8-12)

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	79		70		10-136
2-Fluorobiphenyl	70		62		30-120
2-Fluorophenol	67		63		25-120
4-Terphenyl-d14	79		65		18-120
Nitrobenzene-d5	68		63		23-120
Phenol-d6	70		65		10-120

METALS

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-09
Client ID: UST-4/MW-1 SW-1 (0-2)
Sample Location: BUFFALO, NY
Date Collected: 08/28/18 10:30
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12200		mg/kg	10.0	2.70	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Antimony, Total	1.29	J	mg/kg	5.01	0.380	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Arsenic, Total	3.35		mg/kg	1.00	0.208	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Barium, Total	148		mg/kg	1.00	0.174	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Beryllium, Total	0.601		mg/kg	0.501	0.033	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Cadmium, Total	0.120	J	mg/kg	1.00	0.098	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Calcium, Total	25600		mg/kg	10.0	3.50	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Chromium, Total	18.0		mg/kg	1.00	0.096	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Cobalt, Total	7.57		mg/kg	2.00	0.166	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Copper, Total	19.0		mg/kg	1.00	0.258	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Iron, Total	19400		mg/kg	5.01	0.904	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Lead, Total	27.9		mg/kg	5.01	0.268	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Magnesium, Total	14200		mg/kg	10.0	1.54	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Manganese, Total	443		mg/kg	1.00	0.159	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.081	0.017	1	08/31/18 05:30	08/31/18 13:00	EPA 7471B	1,7471B	MG
Nickel, Total	20.1		mg/kg	2.50	0.242	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Potassium, Total	1360		mg/kg	250	14.4	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Selenium, Total	0.661	J	mg/kg	2.00	0.258	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	1.00	0.283	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Sodium, Total	399		mg/kg	200	3.15	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	2.00	0.315	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Vanadium, Total	22.9		mg/kg	1.00	0.203	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB
Zinc, Total	90.1		mg/kg	5.01	0.293	2	08/31/18 07:15	08/31/18 14:27	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-10 Date Collected: 08/28/18 10:35

Client ID: UST-4/MW-1 SW-2 (0-2) Date Received: 08/28/18

Sample Location: BUFFALO, NY 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	9470		mg/kg	9.22	2.49	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Antimony, Total	1.56	J	mg/kg	4.61	0.350	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Arsenic, Total	3.23		mg/kg	0.922	0.192	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Barium, Total	110		mg/kg	0.922	0.160	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Beryllium, Total	0.461		mg/kg	0.461	0.030	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Cadmium, Total	0.203	J	mg/kg	0.922	0.090	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Calcium, Total	57600		mg/kg	9.22	3.23	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Chromium, Total	15.9		mg/kg	0.922	0.089	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Cobalt, Total	7.69		mg/kg	1.84	0.153	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Copper, Total	20.2		mg/kg	0.922	0.238	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Iron, Total	17800		mg/kg	4.61	0.832	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Lead, Total	20.7		mg/kg	4.61	0.247	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Magnesium, Total	15500		mg/kg	9.22	1.42	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Manganese, Total	601		mg/kg	0.922	0.146	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.074	0.016	1	08/31/18 05:30	08/31/18 13:02	EPA 7471B	1,7471B	MG
Nickel, Total	18.5		mg/kg	2.30	0.223	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Potassium, Total	1300		mg/kg	230	13.3	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Selenium, Total	0.756	J	mg/kg	1.84	0.238	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.922	0.261	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Sodium, Total	332		mg/kg	184	2.90	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.84	0.290	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Vanadium, Total	20.2		mg/kg	0.922	0.187	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB
Zinc, Total	81.2		mg/kg	4.61	0.270	2	08/31/18 07:15	08/31/18 14:32	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-11
Client ID: UST-4/MW-4 SW-3 (0-2)
Sample Location: BUFFALO, NY
Date Collected: 08/28/18 10:48
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9470		mg/kg	10.1	2.74	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Antimony, Total	1.51	J	mg/kg	5.07	0.385	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Arsenic, Total	9.60		mg/kg	1.01	0.211	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Barium, Total	75.9		mg/kg	1.01	0.176	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Beryllium, Total	0.487	J	mg/kg	0.507	0.034	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Cadmium, Total	0.294	J	mg/kg	1.01	0.099	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Calcium, Total	29300		mg/kg	10.1	3.55	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Chromium, Total	16.6		mg/kg	1.01	0.097	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Cobalt, Total	8.81		mg/kg	2.03	0.168	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Copper, Total	33.9		mg/kg	1.01	0.262	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Iron, Total	18500		mg/kg	5.07	0.916	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Lead, Total	70.8		mg/kg	5.07	0.272	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Magnesium, Total	8960		mg/kg	10.1	1.56	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Manganese, Total	527		mg/kg	1.01	0.161	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.083	0.018	1	08/31/18 05:30	08/31/18 13:04	EPA 7471B	1,7471B	MG
Nickel, Total	20.8		mg/kg	2.54	0.245	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Potassium, Total	957		mg/kg	254	14.6	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Selenium, Total	0.862	J	mg/kg	2.03	0.262	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	1.01	0.287	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Sodium, Total	177	J	mg/kg	203	3.19	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	2.03	0.319	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Vanadium, Total	20.4		mg/kg	1.01	0.206	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB
Zinc, Total	87.9		mg/kg	5.07	0.297	2	08/31/18 07:15	08/31/18 14:38	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-16
Client ID: UST-4/MW-4 B-1 (8-12)
Sample Location: BUFFALO, NY
Date Collected: 08/28/18 15:25
Date Received: 08/28/18
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	8570		mg/kg	8.84	2.39	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Antimony, Total	1.42	J	mg/kg	4.42	0.336	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Arsenic, Total	2.89		mg/kg	0.884	0.184	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Barium, Total	84.6		mg/kg	0.884	0.154	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Beryllium, Total	0.407	J	mg/kg	0.442	0.029	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.884	0.087	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Calcium, Total	51600		mg/kg	8.84	3.10	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Chromium, Total	15.0		mg/kg	0.884	0.085	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Cobalt, Total	10.7		mg/kg	1.77	0.147	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Copper, Total	18.6		mg/kg	0.884	0.228	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Iron, Total	17200		mg/kg	4.42	0.799	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Lead, Total	11.8		mg/kg	4.42	0.237	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Magnesium, Total	17300		mg/kg	8.84	1.36	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Manganese, Total	506		mg/kg	0.884	0.141	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.073	0.015	1	08/31/18 05:30	08/31/18 13:06	EPA 7471B	1,7471B	MG
Nickel, Total	19.5		mg/kg	2.21	0.214	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Potassium, Total	1390		mg/kg	221	12.7	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Selenium, Total	0.805	J	mg/kg	1.77	0.228	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.884	0.250	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Sodium, Total	255		mg/kg	177	2.79	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.77	0.279	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Vanadium, Total	20.6		mg/kg	0.884	0.180	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB
Zinc, Total	65.2		mg/kg	4.42	0.259	2	08/31/18 07:15	08/31/18 14:43	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-17 Date Collected: 08/28/18 14:59

Client ID: UST-4/MW-4 SW-1 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY 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	8860		mg/kg	8.69	2.34	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Antimony, Total	1.61	J	mg/kg	4.34	0.330	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Arsenic, Total	2.82		mg/kg	0.869	0.181	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Barium, Total	87.0		mg/kg	0.869	0.151	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Beryllium, Total	0.426	J	mg/kg	0.434	0.029	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Cadmium, Total	0.113	J	mg/kg	0.869	0.085	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Calcium, Total	59700		mg/kg	8.69	3.04	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Chromium, Total	14.3		mg/kg	0.869	0.083	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Cobalt, Total	9.71		mg/kg	1.74	0.144	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Copper, Total	17.7		mg/kg	0.869	0.224	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Iron, Total	16400		mg/kg	4.34	0.784	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Lead, Total	10.5		mg/kg	4.34	0.233	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Magnesium, Total	16400		mg/kg	8.69	1.34	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Manganese, Total	539		mg/kg	0.869	0.138	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.071	0.015	1	08/31/18 05:30	08/31/18 12:53	EPA 7471B	1,7471B	MG
Nickel, Total	17.6		mg/kg	2.17	0.210	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Potassium, Total	1520		mg/kg	217	12.5	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Selenium, Total	0.912	J	mg/kg	1.74	0.224	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.869	0.246	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Sodium, Total	292		mg/kg	174	2.74	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.74	0.274	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Vanadium, Total	20.4		mg/kg	0.869	0.176	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB
Zinc, Total	58.1		mg/kg	4.34	0.254	2	08/31/18 07:15	08/31/18 12:37	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-18
Client ID: UST-4/MW-1 SW-2 (8-12)
Sample Location: BUFFALO, NY
Date Collected: 08/28/18 15:03
Date Received: 08/28/18
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	8840		mg/kg	9.07	2.45	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Antimony, Total	1.43	J	mg/kg	4.54	0.345	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Arsenic, Total	2.81		mg/kg	0.907	0.189	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Barium, Total	122		mg/kg	0.907	0.158	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Beryllium, Total	0.417	J	mg/kg	0.454	0.030	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Cadmium, Total	0.109	J	mg/kg	0.907	0.089	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Calcium, Total	58600		mg/kg	9.07	3.18	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Chromium, Total	15.1		mg/kg	0.907	0.087	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Cobalt, Total	7.61		mg/kg	1.81	0.151	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Copper, Total	19.2		mg/kg	0.907	0.234	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Iron, Total	17600		mg/kg	4.54	0.819	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Lead, Total	10.3		mg/kg	4.54	0.243	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Magnesium, Total	20900		mg/kg	9.07	1.40	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Manganese, Total	450		mg/kg	0.907	0.144	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.076	0.016	1	08/31/18 05:30	08/31/18 13:10	EPA 7471B	1,7471B	MG
Nickel, Total	18.0		mg/kg	2.27	0.220	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Potassium, Total	1410		mg/kg	227	13.1	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Selenium, Total	0.771	J	mg/kg	1.81	0.234	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.907	0.257	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Sodium, Total	279		mg/kg	181	2.86	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.81	0.286	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Vanadium, Total	21.5		mg/kg	0.907	0.184	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB
Zinc, Total	69.3		mg/kg	4.54	0.266	2	08/31/18 07:15	08/31/18 14:48	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-19
Client ID: BLIND DUP #4
Sample Location: BUFFALO, NY
Date Collected: 08/28/18 16:00
Date Received: 08/28/18
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	8480		mg/kg	8.84	2.39	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Antimony, Total	1.34	J	mg/kg	4.42	0.336	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Arsenic, Total	0.840	J	mg/kg	0.884	0.184	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Barium, Total	33.1		mg/kg	0.884	0.154	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Beryllium, Total	0.371	J	mg/kg	0.442	0.029	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Cadmium, Total	0.124	J	mg/kg	0.884	0.087	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Calcium, Total	51700		mg/kg	8.84	3.09	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Chromium, Total	14.9		mg/kg	0.884	0.085	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Cobalt, Total	6.28		mg/kg	1.77	0.147	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Copper, Total	12.4		mg/kg	0.884	0.228	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Iron, Total	14400		mg/kg	4.42	0.798	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Lead, Total	20.0		mg/kg	4.42	0.237	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Magnesium, Total	16500		mg/kg	8.84	1.36	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Manganese, Total	392		mg/kg	0.884	0.140	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.072	0.015	1	08/31/18 05:30	08/31/18 13:15	EPA 7471B	1,7471B	MG
Nickel, Total	16.0		mg/kg	2.21	0.214	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Potassium, Total	1310		mg/kg	221	12.7	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Selenium, Total	0.601	J	mg/kg	1.77	0.228	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.884	0.250	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Sodium, Total	262		mg/kg	177	2.78	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.77	0.278	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Vanadium, Total	16.4		mg/kg	0.884	0.179	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB
Zinc, Total	92.5		mg/kg	4.42	0.259	2	08/31/18 07:15	08/31/18 14:53	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-20 Date Collected: 08/28/18 15:10

Client ID: UST-4/MW-4 SW-3 (8-12) Date Received: 08/28/18

Sample Location: BUFFALO, NY 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	10100		mg/kg	9.31	2.51	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Antimony, Total	1.28	J	mg/kg	4.65	0.354	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Arsenic, Total	2.01		mg/kg	0.931	0.194	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Barium, Total	49.0		mg/kg	0.931	0.162	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Beryllium, Total	0.456	J	mg/kg	0.465	0.031	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.931	0.091	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Calcium, Total	39800		mg/kg	9.31	3.26	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Chromium, Total	17.2		mg/kg	0.931	0.089	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Cobalt, Total	7.27		mg/kg	1.86	0.154	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Copper, Total	16.0		mg/kg	0.931	0.240	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Iron, Total	16800		mg/kg	4.65	0.840	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Lead, Total	11.0		mg/kg	4.65	0.249	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Magnesium, Total	16800		mg/kg	9.31	1.43	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Manganese, Total	349		mg/kg	0.931	0.148	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.077	0.016	1	08/31/18 05:30	08/31/18 13:17	EPA 7471B	1,7471B	MG
Nickel, Total	19.2		mg/kg	2.33	0.225	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Potassium, Total	1550		mg/kg	233	13.4	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Selenium, Total	0.670	J	mg/kg	1.86	0.240	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.931	0.263	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Sodium, Total	276		mg/kg	186	2.93	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.86	0.293	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Vanadium, Total	19.6		mg/kg	0.931	0.189	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB
Zinc, Total	86.7		mg/kg	4.65	0.273	2	08/31/18 07:15	08/31/18 14:58	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Lab Number: L1833991
Project Number: 0437-017-001-005-002
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-21
Client ID: UST-4/MW-1 SW-4 (8-12)
Sample Location: BUFFALO, NY
Date Collected: 08/28/18 15:18
Date Received: 08/28/18
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	9350		mg/kg	8.97	2.42	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Antimony, Total	1.59	J	mg/kg	4.48	0.341	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Arsenic, Total	2.03		mg/kg	0.897	0.186	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Barium, Total	35.6		mg/kg	0.897	0.156	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Beryllium, Total	0.422	J	mg/kg	0.448	0.030	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.897	0.088	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Calcium, Total	53300		mg/kg	8.97	3.14	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Chromium, Total	15.6		mg/kg	0.897	0.086	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Cobalt, Total	6.80		mg/kg	1.79	0.149	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Copper, Total	15.8		mg/kg	0.897	0.231	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Iron, Total	18000		mg/kg	4.48	0.810	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Lead, Total	9.11		mg/kg	4.48	0.240	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Magnesium, Total	17800		mg/kg	8.97	1.38	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Manganese, Total	409		mg/kg	0.897	0.143	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.071	0.015	1	08/31/18 05:30	08/31/18 13:19	EPA 7471B	1,7471B	MG
Nickel, Total	17.7		mg/kg	2.24	0.217	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Potassium, Total	1430		mg/kg	224	12.9	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Selenium, Total	0.798	J	mg/kg	1.79	0.231	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.897	0.254	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Sodium, Total	287		mg/kg	179	2.82	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.79	0.282	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Vanadium, Total	20.7		mg/kg	0.897	0.182	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB
Zinc, Total	71.1		mg/kg	4.48	0.263	2	08/31/18 07:15	08/31/18 15:04	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL AVE. **Lab Number:** L1833991

Project Number: 0437-017-001-005-002 **Report Date:** 08/31/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09-11,16-21 Batch: WG1152049-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	08/31/18 05:30	08/31/18 12:45	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09-11,16-21 Batch: WG1152472-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Iron, Total	0.896	J	mg/kg	2.00	0.361	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Manganese, Total	0.088	J	mg/kg	0.400	0.064	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Sodium, Total	1.94	J	mg/kg	80.0	1.26	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/31/18 07:15	08/31/18 12:27	1,6010D	AB

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002
Lab Number: L1833991
Report Date: 08/31/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-21 Batch: WG1152049-2 SRM Lot Number: D102-540								
Mercury, Total	114		-		65-134	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-21 Batch: WG1152472-2 SRM Lot Number: D102-540					
Aluminum, Total	64	-	49-150	-	
Antimony, Total	158	-	1-199	-	
Arsenic, Total	96	-	83-117	-	
Barium, Total	90	-	83-118	-	
Beryllium, Total	92	-	83-116	-	
Cadmium, Total	99	-	83-118	-	
Calcium, Total	88	-	82-118	-	
Chromium, Total	93	-	83-117	-	
Cobalt, Total	95	-	84-116	-	
Copper, Total	98	-	84-116	-	
Iron, Total	88	-	61-139	-	
Lead, Total	92	-	82-118	-	
Magnesium, Total	78	-	76-124	-	
Manganese, Total	88	-	82-118	-	
Nickel, Total	95	-	83-117	-	
Potassium, Total	78	-	70-130	-	
Selenium, Total	102	-	79-121	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	97	-	74-126	-	
Thallium, Total	96	-	81-119	-	
Vanadium, Total	92	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-21 Batch: WG1152472-2 SRM Lot Number: D102-540					
Zinc, Total	93	-	81-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-21 QC Batch ID: WG1152049-3 WG1152049-4 QC Sample: L1833991-17 Client ID: UST-4/MW-4 SW-1 (8-12)												
Mercury, Total	ND	0.144	0.143	99		0.158	110		80-120	10		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

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): 09-11,16-21 QC Batch ID: WG1152472-3 WG1152472-4 QC Sample: L1833991-17 Client ID: UST-4/MW-4 SW-1 (8-12)											
Aluminum, Total	8860	170	9900	**612**	Q	9460	**343**	Q	75-125	5	20
Antimony, Total	1.61J	42.5	35.6	84		37.6	86		75-125	5	20
Arsenic, Total	2.82	10.2	11.1	81		11.7	85		75-125	5	20
Barium, Total	87.0	170	246	94		249	93		75-125	1	20
Beryllium, Total	0.426J	4.25	3.97	93		4.11	94		75-125	3	20
Cadmium, Total	0.113J	4.33	3.95	91		4.08	92		75-125	3	20
Calcium, Total	59700	849	48000	**0**	Q	51600	**0**	Q	75-125	7	20
Chromium, Total	14.3	17	29.0	86		29.0	84		75-125	0	20
Cobalt, Total	9.71	42.5	40.9	**73**	Q	42.3	**74**	Q	75-125	3	20
Copper, Total	17.7	21.2	36.1	87		36.8	87		75-125	2	20
Iron, Total	16400	84.9	16400	**0**	Q	15900	**0**	Q	75-125	3	20
Lead, Total	10.5	43.3	42.5	**74**	Q	43.3	**74**	Q	75-125	2	20
Magnesium, Total	16400	849	15400	**0**	Q	17300	103		75-125	12	20
Manganese, Total	539.	42.5	408	**0**	Q	426	**0**	Q	75-125	4	20
Nickel, Total	17.6	42.5	49.7	76		50.7	76		75-125	2	20
Potassium, Total	1520	849	2630	**131**	Q	2580	121		75-125	2	20
Selenium, Total	0.912J	10.2	9.89	97		10.3	98		75-125	4	20
Silver, Total	ND	25.5	25.9	102		27.2	104		75-125	5	20
Sodium, Total	292.	849	1160	102		1190	103		75-125	3	20
Thallium, Total	ND	10.2	7.40	**73**	Q	7.66	**73**	Q	75-125	3	20
Vanadium, Total	20.4	42.5	57.5	87		58.7	88		75-125	2	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

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): 09-11,16-21 QC Batch ID: WG1152472-3 WG1152472-4 QC Sample: L1833991-17 Client ID: UST-4/MW-4 SW-1 (8-12)										
Zinc, Total	58.1	42.5	92.1	80	90.4	**74**	Q	75-125	2	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-01
Client ID: MW-4 B-1 10'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 09:24
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-02
Client ID: MW-4 SW-1 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 09:34
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-03
Client ID: MW-4 SW-2 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 11:48
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.9		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-04
Client ID: MW-4 SW-3 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 09:22
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-05
Client ID: MW-4 SW-4 (8-10)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 11:34
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-06
Client ID: FA-SW-1 3.5'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:34
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.7		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-07
Client ID: FA-SW-2 4.5'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:21
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.5		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-08
Client ID: FA-B-1 7.0'
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:44
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-09
Client ID: UST-4/MW-1 SW-1 (0-2)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 10:30
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.9		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-10
Client ID: UST-4/MW-1 SW-2 (0-2)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 10:35
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.1		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-11
Client ID: UST-4/MW-4 SW-3 (0-2)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 10:48
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.8		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-12
Client ID: UST-4/MW-4 SW-1 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 11:57
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.4		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-13
Client ID: UST-4/MW-4 SW-2 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 12:02
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-14
Client ID: UST-4/MW-4 SW-3 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 12:06
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-15
Client ID: UST-4/MW-4 SW-4 (4-7)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 12:08
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-16
Client ID: UST-4/MW-4 B-1 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:25
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-17
Client ID: UST-4/MW-4 SW-1 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 14:59
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-18
Client ID: UST-4/MW-1 SW-2 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:03
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.5		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-19
Client ID: BLIND DUP #4
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 16:00
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-20
Client ID: UST-4/MW-4 SW-3 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:10
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	08/29/18 09:12	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

SAMPLE RESULTS

Lab ID: L1833991-21
Client ID: UST-4/MW-1 SW-4 (8-12)
Sample Location: BUFFALO, NY

Date Collected: 08/28/18 15:18
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	08/29/18 09:55	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 0437-017-001-005-002

Lab Number: L1833991

Report Date: 08/31/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1151670-1 QC Sample: L1833991-17 Client ID: UST-4/MW-4 SW-1 (8-12)						
Solids, Total	88.4	87.4	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 21 QC Batch ID: WG1151697-1 QC Sample: L1834009-01 Client ID: DUP Sample						
Solids, Total	93.2	92.9	%	0		20

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833991-01A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-01B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-01C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-01D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-01X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-01Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-01Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-02A	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-02B	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-02C	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-02D	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-02X	Vial MeOH preserved split	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-02Y	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-02Z	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-03A	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-03B	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-03C	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-03D	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-03X	Vial MeOH preserved split	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-03Y	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-03Z	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-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(*)
L1833991-04A	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-04B	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-04C	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-04D	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-04X	Vial MeOH preserved split	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-04Y	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-04Z	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-05A	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-05B	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-05C	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-05D	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-05X	Vial MeOH preserved split	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-05Y	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-05Z	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-06A	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-06B	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-06C	5 gram Encore Sampler	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-06D	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-06X	Vial MeOH preserved split	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-06Y	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-06Z	Vial Water preserved split	B	NA		3.2	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-07A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-07B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-07C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-07D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-07X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-07Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-07Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-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(*)
L1833991-08A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-08B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-08C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-08D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-08X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-08Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-08Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-09A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-09B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-09C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-09D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-09E	Glass 60ml unpreserved split	A	NA		2.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833991-09X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-09Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-09Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-10A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-10B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-10C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-10D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-10E	Glass 60ml unpreserved split	A	NA		2.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833991-10X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-10Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)
L1833991-10Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:05	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833991-11A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-11B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-11C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-11D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-11E	Glass 60ml unpreserved split	A	NA		2.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833991-11X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-11Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-11Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-12A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-12B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-12C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-12D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-12X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-12Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-12Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-13A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-13B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-13C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-13D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-13X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-13Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-13Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-14A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-14B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-14C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-14D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)

*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(*)
L1833991-14X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-14Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-14Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-15A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-15B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-15C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-15D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-15X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-15Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-15Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-16A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-16B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-16C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-16D	Glass 250ml/8oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-16E	Glass 60ml unpreserved split	C	NA		2.1	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833991-16X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-16Y	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-16Z	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-17A	1 Vial MeOH/2 Vial Water	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17A1	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17A2	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17B1	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17B2	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17C1	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-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(*)
L1833991-17C2	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17D	Glass 250ml/8oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-17D1	Glass 250ml/8oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-17D2	Glass 250ml/8oz unpreserved	C	NA		2.1	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),MS/MSD(),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833991-17X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17X1	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17X2	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-17Y	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-17Y1	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-17Y2	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-17Z	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-17Z1	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-17Z2	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-18A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-18B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-18C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-18D	Glass 250ml/8oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-18E	Glass 60ml unpreserved split	C	NA		2.1	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833991-18X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-18Y	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-18Z	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-19A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-19B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-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(*)
L1833991-19C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-19D	Glass 250ml/8oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-19E	Glass 60ml unpreserved split	C	NA		2.1	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833991-19X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-19Y	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-19Z	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-20A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-20B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-20C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-20D	Glass 250ml/8oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-20E	Glass 60ml unpreserved split	C	NA		2.1	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833991-20X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-20Y	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-20Z	Vial Water preserved split	C	NA		2.1	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)
L1833991-21A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-21B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-21C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-21D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7)
L1833991-21E	Glass 60ml unpreserved split	A	NA		2.8	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1833991-21X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1833991-21Y	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833991-21Z	Vial Water preserved split	A	NA		2.8	Y	Absent	29-AUG-18 10:53	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833991
Project Number:	0437-017-001-005-002	**Report Date:**	08/31/18

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).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833991
Project Number:	0437-017-001-005-002	**Report Date:**	08/31/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1833991
Project Number:	0437-017-001-005-002	**Report Date:**	08/31/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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 3

Date Rec'd in Lab: 8/29/18

ALPHA Job #: L1833991

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

Project Information
Project Name: 1585 Hold Ave
Project Location: B. Park NY
Project #: 0437-017-001-005-002
(Use Project name as Project #) ☒
Project Manager: Chris Boron
ALPHAQuote #:

Client Information
Client: Benchmark Eng
Address: 2558 Hamburg Turnpike Lackawanna NY 14218
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: [illegible]

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date:
of Days: 5 DAY

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:
CAT B

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	TCL+CP-51 VOC 8260	Part 375 SVOC	TAL METALS	Sample Specific Comments	Total Bottles
33991-01	MW-4 B-1 10'	8/28/18	929	Soil	TAB	X	X			4
-02	MW-4 SW-1 (8-10)		934			X	X			4
-03	MW-4 SW-2 (8-10)		1128			X	X			4
-04	MW-4 SW-3 (8-10)		922			X	X		add TICs	4
-05	MW-4 SW-4 (8-10)		1134			X	X			4
-06	FA-SW-1 3.5'		1434			X	X			4
-07	FA-SW-2 4.5'		1421			X	X			4
-08	FA-B-1 7.0'		1444			X	X		add TICs	4
-09	UST-4 (MW-1 area) SW-1(0-2)		1030			X	X	X		4
-10	UST-4 MW-1 SW-2 (0-2)		1035			X	X	X		4

	TCL+CP-51 VOC	Part 375 SVOC	TAL METALS
Container Type	E	A	A
Preservative	K	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]	8/28/18 16:45	[signature] AAL	8/28/18 16:35
[signature] AAL	8/29/18 17:15	[signature]	8/29/18 0115

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

Page 2 of 3

Date Rec'd in Lab: 8/29/18

ALPHA Job #: L1833991

Client Information
Client: Benchmark Env
Address: 255 Hamburg Turnpike
Lackm. NY 14219
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: TBlind@Trubelle.com

Project Information
Project Name: 1585 Hubel Ave
Project Location: Buffalo
Project # 0437-017-001-005-002
(Use Project name as Project #) ☑
Project Manager: Chris Borro
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☒ # of Days: 3DAY

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:
Cat B.

Please specify Metals or TAL.

ANALYSIS
TCL + 8260 + 8270 (full list) VOC
Part 375 SVOC
TAL METALS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL+8260+8270 (full list) VOC	Part 375 SVOC	TAL METALS	Sample Specific Comments
33991 -11	UST-4/MW-4 SW-3 (0-2)	8/28/18	1048	soil	TATS	X	X	X	
-12	UST-4/MW-4 SW-1 (4-7)		1157			X	X		
-13	UST-4/MW-4 SW-2 (4-7)		1202			X	X		
-14	UST-4/MW-4 SW-3 (4-7)		1206			X	X		add TICs
-15	UST-4/MW-4 SW-4 (4-7)		1208			X	X		
-16	UST-4/MW-4 B-1 (8-12)		1525			X	X	X	
-17	UST-4/MW-4 SW-1 (8-12) (MS/MSD)		1459			X	X	X	add TICs
-18	UST-4 MW-4 SW-2 (8-12)		1503			X	X	X	add TICs
-19	Blind Dup #4		1600			X	X	X	add TICs
-20	UST-4/MW-4 SW-3 (8-12)	↓	1510	↓	↓	X	X	X	

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

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

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

Container Type	E	A	A
Preservative	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	8/28/18 16:35		8/28/18 16:35
	8/28/18 17:15		8/29/18 0115

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

Page 3 of 3

Date Rec'd in Lab: 8/29/18

ALPHA Job #: L1833991

Client Information

Client: Benchmark Env
Address: 7558 Huntington Ln
Lockport NY 14094
Phone: (716) 818 835 8
Fax: (716) 856-0583
Email: TBrown@BenchmarkEnv.com

Project Information

Project Name: 1585 Hertel Ave
Project Location: Buffalo NY
Project #: 0437-017-001-005-002
(Use Project name as Project #): ☒
Project Manager: Chris Boron
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3DAY

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAT B

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	TCL+CP-51 VOC +22	Part 375 SVOC	TAL Metals	Sample Filtration	Total Bottle
33991-21	MST-4/MW-1 8/28/18 (8-12)	8/28/18	~~1515~~ 1515	SO;1	TAB	X	X	X	☐ Done ☐ Lab to do	4
									Preservation ☐ Lab to do	
									(Please Specify below)	
									Sample Specific Comments	

Container Type: E A A
Preservative: X X 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]	8/28/18 16:35	[signature]	8/29/18 16:35
Jack Storey and [signature]	8/28/18 17:15	[signature]	8/29/18 0118

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:	L1834193
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	1585 HERTEL AVE.
Report Date:	09/06/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1834193-01	PUMP ISLAND SW-11 4.0'	SOIL	BUFFALO, NY	08/29/18 13:06	08/29/18
L1834193-02	PUMP ISLAND SW-12 5.0'	SOIL	BUFFALO, NY	08/29/18 13:14	08/29/18
L1834193-03	PUMP ISLAND SW-13 6.0'	SOIL	BUFFALO, NY	08/29/18 13:22	08/29/18
L1834193-04	PUMP ISLAND B-4 10.0'	SOIL	BUFFALO, NY	08/29/18 13:02	08/29/18
L1834193-05	PUMP ISLAND B-1R (1) 8.5'	SOIL	BUFFALO, NY	08/29/18 10:28	08/29/18
L1834193-06	UST-1 SW-3 R(1) 8.5'	SOIL	BUFFALO, NY	08/29/18 10:20	08/29/18

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1834193
Project Number:	1585 HERTEL AVE.	**Report Date:**	09/06/18

Case Narrative

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

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

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

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

HOLD POLICY

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

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

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1834193
Project Number:	1585 HERTEL AVE.	**Report Date:**	09/06/18

Case Narrative (continued)

Report Submission

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

Volatile Organics

L1834193-06: The surrogate recovery for 1,2-dichloroethane-d4 (131%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

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: 09/06/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-01
Client ID: PUMP ISLAND SW-11 4.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:06
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/04/18 23:19
Analyst: JC
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-01 Date Collected: 08/29/18 13:06

Client ID: PUMP ISLAND SW-11 4.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.25	1
p/m-Xylene	ND		ug/kg	2.4	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	71		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	6.8	J	ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	0.63	J	ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
Methyl Acetate	ND		ug/kg	4.9	1.2	1
Cyclohexane	ND		ug/kg	12	0.67	1
1,4-Dioxane	ND		ug/kg	120	43.	1
Freon-113	ND		ug/kg	4.9	0.85	1
Methyl cyclohexane	0.76	J	ug/kg	4.9	0.74	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	92		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-02
Client ID: PUMP ISLAND SW-12 5.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:14
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:40
Analyst: NLK
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.21	1
Benzene	ND		ug/kg	0.62	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-02 Date Collected: 08/29/18 13:14

Client ID: PUMP ISLAND SW-12 5.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	34		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
Methyl Acetate	ND		ug/kg	5.0	1.2	1
Cyclohexane	ND		ug/kg	12	0.68	1
1,4-Dioxane	ND		ug/kg	120	44.	1
Freon-113	ND		ug/kg	5.0	0.86	1
Methyl cyclohexane	ND		ug/kg	5.0	0.75	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-02 Date Collected: 08/29/18 13:14

Client ID: PUMP ISLAND SW-12 5.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	10.1	J	ug/kg			1
Unknown	2.84	J	ug/kg			1
Unknown	3.12	J	ug/kg			1
Ethane, 1,1-Difluoro-	4.15	NJ	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	108		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-03
Client ID: PUMP ISLAND SW-13 6.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:22
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/04/18 17:07
Analyst: NLK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.13	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-03 Date Collected: 08/29/18 13:22

Client ID: PUMP ISLAND SW-13 6.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.26	J	ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	14		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.95	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.8	0.91	1
Cyclohexane	ND		ug/kg	9.6	0.52	1
1,4-Dioxane	ND		ug/kg	96	34.	1
Freon-113	ND		ug/kg	3.8	0.66	1
Methyl cyclohexane	ND		ug/kg	3.8	0.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	109		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-04
Client ID: PUMP ISLAND B-4 10.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:02
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/04/18 22:54
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	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	0.80	1
1,2-Dichloroethane	0.41	J	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	0.52	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: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-04 Date Collected: 08/29/18 13:02

Client ID: PUMP ISLAND B-4 10.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	0.92	J	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	26		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	1.5	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
n-Butylbenzene	0.38	J	ug/kg	1.1	0.19	1
sec-Butylbenzene	0.34	J	ug/kg	1.1	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	0.64	J	ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.18	J	ug/kg	1.1	0.12	1
n-Propylbenzene	1.4		ug/kg	1.1	0.20	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
1,3,5-Trimethylbenzene	1.1	J	ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	4.3		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
1,4-Dioxane	ND		ug/kg	110	40.	1
Freon-113	ND		ug/kg	4.6	0.79	1
Methyl cyclohexane	ND		ug/kg	4.6	0.69	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-04 Date Collected: 08/29/18 13:02

Client ID: PUMP ISLAND B-4 10.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	21.8	J	ug/kg			1
Unknown Aromatic	3.30	J	ug/kg			1
Ethane, 1,1-Difluoro-	8.61	NJ	ug/kg			1
Unknown	2.42	J	ug/kg			1
Cyclotrisiloxane, Hexamethyl-	2.53	NJ	ug/kg			1
Unknown	2.37	J	ug/kg			1
Pentane, 2,3,3-trimethyl-	2.58	NJ	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	93		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-05
Client ID: PUMP ISLAND B-1R (1) 8.5'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 10:28
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/04/18 17:23
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	340	160	1
1,1-Dichloroethane	ND		ug/kg	69	10.	1
Chloroform	ND		ug/kg	100	9.6	1
Carbon tetrachloride	ND		ug/kg	69	16.	1
1,2-Dichloropropane	ND		ug/kg	69	8.6	1
Dibromochloromethane	ND		ug/kg	69	9.6	1
1,1,2-Trichloroethane	ND		ug/kg	69	18.	1
Tetrachloroethene	ND		ug/kg	34	14.	1
Chlorobenzene	ND		ug/kg	34	8.8	1
Trichlorofluoromethane	ND		ug/kg	280	48.	1
1,2-Dichloroethane	ND		ug/kg	69	18.	1
1,1,1-Trichloroethane	ND		ug/kg	34	12.	1
Bromodichloromethane	ND		ug/kg	34	7.5	1
trans-1,3-Dichloropropene	ND		ug/kg	69	19.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	280	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	100		ug/kg	34	11.	1
Toluene	ND		ug/kg	69	37.	1
Ethylbenzene	230		ug/kg	69	9.7	1
Chloromethane	ND		ug/kg	280	64.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	ND		ug/kg	69	23.	1
Chloroethane	ND		ug/kg	140	31.	1
1,1-Dichloroethene	ND		ug/kg	69	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.4	1
Trichloroethene	ND		ug/kg	34	9.4	1
1,2-Dichlorobenzene	ND		ug/kg	140	9.9	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-05 Date Collected: 08/29/18 10:28

Client ID: PUMP ISLAND B-1R (1) 8.5' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	39.	1
o-Xylene	ND		ug/kg	69	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	69	12.	1
Styrene	ND		ug/kg	69	14.	1
Dichlorodifluoromethane	ND		ug/kg	690	63.	1
Acetone	ND		ug/kg	690	330	1
Carbon disulfide	ND		ug/kg	690	310	1
2-Butanone	ND		ug/kg	690	150	1
4-Methyl-2-pentanone	ND		ug/kg	690	88.	1
2-Hexanone	ND		ug/kg	690	81.	1
Bromochloromethane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	69	19.	1
n-Butylbenzene	900		ug/kg	69	12.	1
sec-Butylbenzene	250		ug/kg	69	10.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	210	69.	1
Isopropylbenzene	280		ug/kg	69	7.5	1
p-Isopropyltoluene	61	J	ug/kg	69	7.5	1
n-Propylbenzene	1100		ug/kg	69	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	19.	1
1,3,5-Trimethylbenzene	96	J	ug/kg	140	13.	1
1,2,4-Trimethylbenzene	35	J	ug/kg	140	23.	1
Methyl Acetate	ND		ug/kg	280	66.	1
Cyclohexane	1100		ug/kg	690	38.	1
1,4-Dioxane	ND		ug/kg	6900	2400	1
Freon-113	ND		ug/kg	280	48.	1
Methyl cyclohexane	730		ug/kg	280	42.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	88		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-06
Client ID: UST-1 SW-3 R(1) 8.5'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 10:20
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/04/18 17:33
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-06 Date Collected: 08/29/18 10:20

Client ID: UST-1 SW-3 R(1) 8.5' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	2.4		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	110		ug/kg	10	5.1	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	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	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	100	37.	1
Freon-113	ND		ug/kg	4.2	0.73	1
Methyl cyclohexane	ND		ug/kg	4.2	0.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**131**	Q	70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	109		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:14
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03,06 Batch: WG1153679-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:14
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03,06 Batch: WG1153679-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:14
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03,06 Batch: WG1153679-5					
Tentatively Identified Compounds					
Total TIC Compounds	2.15	J	ug/kg		
Unknown	2.15	J	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	106		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:07
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1153737-5					
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	48	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: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:07
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1153737-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	12	J	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.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
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
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
1,4-Dioxane	ND		ug/kg	5000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:07
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1153737-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	87		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:07
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04 Batch: WG1153740-5					
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	0.96	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: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:07
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04 Batch: WG1153740-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.24	J	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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/18 16:07
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04 Batch: WG1153740-5					
Tentatively Identified Compounds					
Total TIC Compounds	7.08	J	ug/kg		
Unknown	2.25	J	ug/kg		
Cyclotrisiloxane, Hexamethyl-	4.83	NJ	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	87		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,06 Batch: WG1153679-3 WG1153679-4								
Methylene chloride	98		93		70-130	5		30
1,1-Dichloroethane	110		103		70-130	7		30
Chloroform	102		97		70-130	5		30
Carbon tetrachloride	100		95		70-130	5		30
1,2-Dichloropropane	101		102		70-130	1		30
Dibromochloromethane	99		95		70-130	4		30
1,1,2-Trichloroethane	110		106		70-130	4		30
Tetrachloroethene	97		92		70-130	5		30
Chlorobenzene	93		90		70-130	3		30
Trichlorofluoromethane	96		89		70-139	8		30
1,2-Dichloroethane	111		104		70-130	7		30
1,1,1-Trichloroethane	106		100		70-130	6		30
Bromodichloromethane	104		99		70-130	5		30
trans-1,3-Dichloropropene	115		110		70-130	4		30
cis-1,3-Dichloropropene	102		98		70-130	4		30
Bromoform	111		110		70-130	1		30
1,1,2,2-Tetrachloroethane	116		114		70-130	2		30
Benzene	96		91		70-130	5		30
Toluene	101		97		70-130	4		30
Ethylbenzene	104		98		70-130	6		30
Chloromethane	84		78		52-130	7		30
Bromomethane	80		79		57-147	1		30
Vinyl chloride	103		96		67-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,06 Batch: WG1153679-3 WG1153679-4								
Chloroethane	108		104		50-151	4		30
1,1-Dichloroethene	96		87		65-135	10		30
trans-1,2-Dichloroethene	95		89		70-130	7		30
Trichloroethene	97		90		70-130	7		30
1,2-Dichlorobenzene	99		94		70-130	5		30
1,3-Dichlorobenzene	99		94		70-130	5		30
1,4-Dichlorobenzene	97		92		70-130	5		30
Methyl tert butyl ether	90		87		66-130	3		30
p/m-Xylene	99		96		70-130	3		30
o-Xylene	97		94		70-130	3		30
cis-1,2-Dichloroethene	93		88		70-130	6		30
Styrene	100		99		70-130	1		30
Dichlorodifluoromethane	64		56		30-146	13		30
Acetone	106		95		54-140	11		30
Carbon disulfide	97		91		59-130	6		30
2-Butanone	78		81		70-130	4		30
4-Methyl-2-pentanone	98		98		70-130	0		30
2-Hexanone	81		83		70-130	2		30
Bromochloromethane	86		82		70-130	5		30
1,2-Dibromoethane	100		96		70-130	4		30
n-Butylbenzene	117		114		70-130	3		30
sec-Butylbenzene	105		100		70-130	5		30
1,2-Dibromo-3-chloropropane	103		104		68-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,06 Batch: WG1153679-3 WG1153679-4								
Isopropylbenzene	99		95		70-130	4		30
p-Isopropyltoluene	97		93		70-130	4		30
n-Propylbenzene	109		105		70-130	4		30
1,2,3-Trichlorobenzene	107		103		70-130	4		30
1,2,4-Trichlorobenzene	102		95		70-130	7		30
1,3,5-Trimethylbenzene	104		101		70-130	3		30
1,2,4-Trimethylbenzene	105		99		70-130	6		30
Methyl Acetate	96		95		51-146	1		30
Cyclohexane	94		86		59-142	9		30
1,4-Dioxane	100		86		65-136	15		30
Freon-113	94		90		50-139	4		30
Methyl cyclohexane	87		81		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		115		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	104		107		70-130
Dibromofluoromethane	100		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1153737-3 WG1153737-4								
Methylene chloride	102		101		70-130	1		30
1,1-Dichloroethane	109		110		70-130	1		30
Chloroform	98		98		70-130	0		30
Carbon tetrachloride	85		86		70-130	1		30
1,2-Dichloropropane	112		113		70-130	1		30
Dibromochloromethane	95		97		70-130	2		30
1,1,2-Trichloroethane	109		111		70-130	2		30
Tetrachloroethene	91		91		70-130	0		30
Chlorobenzene	99		99		70-130	0		30
Trichlorofluoromethane	80		81		70-139	1		30
1,2-Dichloroethane	96		98		70-130	2		30
1,1,1-Trichloroethane	92		91		70-130	1		30
Bromodichloromethane	94		94		70-130	0		30
trans-1,3-Dichloropropene	108		110		70-130	2		30
cis-1,3-Dichloropropene	100		102		70-130	2		30
Bromoform	95		99		70-130	4		30
1,1,2,2-Tetrachloroethane	115		119		70-130	3		30
Benzene	100		100		70-130	0		30
Toluene	103		104		70-130	1		30
Ethylbenzene	104		104		70-130	0		30
Chloromethane	110		111		52-130	1		30
Bromomethane	100		100		57-147	0		30
Vinyl chloride	93		93		67-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1153737-3 WG1153737-4								
Chloroethane	85		86		50-151	1		30
1,1-Dichloroethene	93		93		65-135	0		30
trans-1,2-Dichloroethene	94		95		70-130	1		30
Trichloroethene	93		93		70-130	0		30
1,2-Dichlorobenzene	99		101		70-130	2		30
1,3-Dichlorobenzene	101		101		70-130	0		30
1,4-Dichlorobenzene	101		101		70-130	0		30
Methyl tert butyl ether	95		98		66-130	3		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	99		100		70-130	1		30
cis-1,2-Dichloroethene	96		95		70-130	1		30
Styrene	101		102		70-130	1		30
Dichlorodifluoromethane	69		69		30-146	0		30
Acetone	109		113		54-140	4		30
Carbon disulfide	94		93		59-130	1		30
2-Butanone	118		120		70-130	2		30
4-Methyl-2-pentanone	121		124		70-130	2		30
2-Hexanone	117		121		70-130	3		30
Bromochloromethane	88		88		70-130	0		30
1,2-Dibromoethane	98		99		70-130	1		30
n-Butylbenzene	113		113		70-130	0		30
sec-Butylbenzene	109		109		70-130	0		30
1,2-Dibromo-3-chloropropane	89		92		68-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1153737-3 WG1153737-4								
Isopropylbenzene	110		110		70-130	0		30
p-Isopropyltoluene	105		105		70-130	0		30
n-Propylbenzene	115		116		70-130	1		30
1,2,3-Trichlorobenzene	95		98		70-130	3		30
1,2,4-Trichlorobenzene	95		98		70-130	3		30
1,3,5-Trimethylbenzene	109		109		70-130	0		30
1,2,4-Trimethylbenzene	107		108		70-130	1		30
Methyl Acetate	116		121		51-146	4		30
Cyclohexane	112		111		59-142	1		30
1,4-Dioxane	93		104		65-136	11		30
Freon-113	90		88		50-139	2		30
Methyl cyclohexane	92		92		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	109		110		70-130
4-Bromofluorobenzene	112		114		70-130
Dibromofluoromethane	91		91		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG1153740-3 WG1153740-4								
Methylene chloride	102		101		70-130	1		30
1,1-Dichloroethane	109		110		70-130	1		30
Chloroform	98		98		70-130	0		30
Carbon tetrachloride	85		86		70-130	1		30
1,2-Dichloropropane	112		113		70-130	1		30
Dibromochloromethane	95		97		70-130	2		30
1,1,2-Trichloroethane	109		111		70-130	2		30
Tetrachloroethene	91		91		70-130	0		30
Chlorobenzene	99		99		70-130	0		30
Trichlorofluoromethane	80		81		70-139	1		30
1,2-Dichloroethane	96		98		70-130	2		30
1,1,1-Trichloroethane	92		91		70-130	1		30
Bromodichloromethane	94		94		70-130	0		30
trans-1,3-Dichloropropene	108		110		70-130	2		30
cis-1,3-Dichloropropene	100		102		70-130	2		30
Bromoform	95		99		70-130	4		30
1,1,2,2-Tetrachloroethane	115		119		70-130	3		30
Benzene	100		100		70-130	0		30
Toluene	103		104		70-130	1		30
Ethylbenzene	104		104		70-130	0		30
Chloromethane	110		111		52-130	1		30
Bromomethane	100		100		57-147	0		30
Vinyl chloride	93		93		67-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG1153740-3 WG1153740-4								
Chloroethane	85		86		50-151	1		30
1,1-Dichloroethene	93		93		65-135	0		30
trans-1,2-Dichloroethene	94		95		70-130	1		30
Trichloroethene	93		93		70-130	0		30
1,2-Dichlorobenzene	99		101		70-130	2		30
1,3-Dichlorobenzene	101		101		70-130	0		30
1,4-Dichlorobenzene	101		101		70-130	0		30
Methyl tert butyl ether	95		98		66-130	3		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	99		100		70-130	1		30
cis-1,2-Dichloroethene	96		95		70-130	1		30
Styrene	101		102		70-130	1		30
Dichlorodifluoromethane	69		69		30-146	0		30
Acetone	109		113		54-140	4		30
Carbon disulfide	94		93		59-130	1		30
2-Butanone	118		120		70-130	2		30
4-Methyl-2-pentanone	121		124		70-130	2		30
2-Hexanone	117		121		70-130	3		30
Bromochloromethane	88		88		70-130	0		30
1,2-Dibromoethane	98		99		70-130	1		30
n-Butylbenzene	113		113		70-130	0		30
sec-Butylbenzene	109		109		70-130	0		30
1,2-Dibromo-3-chloropropane	89		92		68-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG1153740-3 WG1153740-4								
Isopropylbenzene	110		110		70-130	0		30
p-Isopropyltoluene	105		105		70-130	0		30
n-Propylbenzene	115		116		70-130	1		30
1,2,3-Trichlorobenzene	95		98		70-130	3		30
1,2,4-Trichlorobenzene	95		98		70-130	3		30
1,3,5-Trimethylbenzene	109		109		70-130	0		30
1,2,4-Trimethylbenzene	107		108		70-130	1		30
Methyl Acetate	116		121		51-146	4		30
Cyclohexane	112		111		59-142	1		30
1,4-Dioxane	93		104		65-136	11		30
Freon-113	90		88		50-139	2		30
Methyl cyclohexane	92		92		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	109		110		70-130
4-Bromofluorobenzene	113		114		70-130
Dibromofluoromethane	91		91		70-130

SEMIVOLATILES

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-01
Client ID: PUMP ISLAND SW-11 4.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:06
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/04/18 23:34
Analyst: JG
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 08/31/18 18:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	ND		ug/kg	130	25.	1
Naphthalene	ND		ug/kg	220	26.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Dibenzofuran	ND		ug/kg	220	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	220	32.	1
2-Methylphenol	ND		ug/kg	220	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-01 Date Collected: 08/29/18 13:06

Client ID: PUMP ISLAND SW-11 4.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	92		18-120

Project Name: 1585 HERTEL AVE.
Lab Number: L1834193
Project Number: 1585 HERTEL AVE.
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-02
Client ID: PUMP ISLAND SW-12 5.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:14
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/05/18 00:01
Analyst: JG
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 08/31/18 18:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	37	J	ug/kg	130	25.	1
Naphthalene	ND		ug/kg	220	26.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	26	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	31	J	ug/kg	130	22.	1
Dibenzofuran	ND		ug/kg	220	20.	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-02 Date Collected: 08/29/18 13:14

Client ID: PUMP ISLAND SW-12 5.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	1750	J	ug/kg			1
Unknown	275	J	ug/kg			1
Unknown	317	J	ug/kg			1
Unknown	886	J	ug/kg			1
Unknown	273	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	74		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-03
Client ID: PUMP ISLAND SW-13 6.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:22
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/05/18 00:27
Analyst: JG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 08/31/18 18:01

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
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		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	27.	1
Pyrene	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-03 Date Collected: 08/29/18 13:22

Client ID: PUMP ISLAND SW-13 6.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	90		18-120

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-04
Client ID: PUMP ISLAND B-4 10.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:02
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/05/18 00:53
Analyst: JG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/31/18 18:01

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
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		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	ND		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	ND		ug/kg	110	19.	1
Dibenzofuran	ND		ug/kg	190	18.	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

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/kg	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1834193

Project Number: 1585 HERTEL AVE. **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-04 Date Collected: 08/29/18 13:02

Client ID: PUMP ISLAND B-4 10.0' Date Received: 08/29/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	97		18-120

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/04/18 10:04
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/31/18 18:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1152806-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
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.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/04/18 10:04
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/31/18 18:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1152806-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	72		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1152806-2 WG1152806-3								
Acenaphthene	71		70		31-137	1		50
Hexachlorobenzene	73		74		40-140	1		50
Fluoranthene	74		76		40-140	3		50
Naphthalene	69		69		40-140	0		50
Benzo(a)anthracene	70		73		40-140	4		50
Benzo(a)pyrene	78		78		40-140	0		50
Benzo(b)fluoranthene	77		77		40-140	0		50
Benzo(k)fluoranthene	71		75		40-140	5		50
Chrysene	74		76		40-140	3		50
Acenaphthylene	75		72		40-140	4		50
Anthracene	75		76		40-140	1		50
Benzo(ghi)perylene	76		76		40-140	0		50
Fluorene	74		73		40-140	1		50
Phenanthrene	72		74		40-140	3		50
Dibenzo(a,h)anthracene	74		75		40-140	1		50
Indeno(1,2,3-cd)pyrene	75		78		40-140	4		50
Pyrene	72		75		35-142	4		50
Dibenzofuran	72		71		40-140	1		50
Pentachlorophenol	61		64		17-109	5		50
Phenol	76		73		26-90	4		50
2-Methylphenol	79		77		30-130.	3		50
3-Methylphenol/4-Methylphenol	84		81		30-130	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1152806-2 WG1152806-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		75		25-120
Phenol-d6	83		80		10-120
Nitrobenzene-d5	83		80		23-120
2-Fluorobiphenyl	71		69		30-120
2,4,6-Tribromophenol	76		75		10-136
4-Terphenyl-d14	69		70		18-120

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-01
Client ID: PUMP ISLAND SW-11 4.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:06
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.3		%	0.100	NA	1	-	08/30/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-02
Client ID: PUMP ISLAND SW-12 5.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:14
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.6		%	0.100	NA	1	-	08/30/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-03
Client ID: PUMP ISLAND SW-13 6.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:22
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	08/30/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-04
Client ID: PUMP ISLAND B-4 10.0'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 13:02
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	08/30/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-05
Client ID: PUMP ISLAND B-1R (1) 8.5'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 10:28
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.5		%	0.100	NA	1	-	08/30/18 09:07	121,2540G	RI

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834193-06
Client ID: UST-1 SW-3 R(1) 8.5'
Sample Location: BUFFALO, NY

Date Collected: 08/29/18 10:20
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	08/30/18 09:07	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1834193

Report Date: 09/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1152132-1 QC Sample: L1834073-04 Client ID: DUP Sample						
Solids, Total	88.4	90.4	%	2		20

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

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(*)
L1834193-01A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-01B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-01C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-01D	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1834193-01X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-01Y	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-01Z	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-02A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-02B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-02C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-02D	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1834193-02X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-02Y	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-02Z	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-03A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-03B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-03C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-03D	Vial Large Septa unpreserved (4oz)	A	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1834193-03X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-03Y	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-03Z	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-04A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-04B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1834193-04C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-04D	Vial Large Septa unpreserved (4oz)	A	NA		2.1	Y	Absent		NYTCL-8270(14),TS(7)
L1834193-04X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-04Y	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-04Z	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-05A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-05B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-05C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-05D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1834193-05X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-05Y	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-05Z	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-06A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-06B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-06C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-06D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1834193-06X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1834193-06Y	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)
L1834193-06Z	Vial Water preserved split	A	NA		2.1	Y	Absent	30-AUG-18 12:17	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1834193
Project Number:	1585 HERTEL AVE.	**Report Date:**	09/06/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1834193
Project Number:	1585 HERTEL AVE.	**Report Date:**	09/06/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1834193
Project Number:	1585 HERTEL AVE.	**Report Date:**	09/06/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 8/30/18

ALPHA Job #: L1834193

Client Information
Client: Benchmark Eng
Address: 2558 Hamburg Turnpike
Phone: 716 (858) 8352
Fax: 716 (856-0583
Email: TBehnke@Tundlle.com

Project Information
Project Name: 1585 Hertel Ave
Project Location: Buffalo NY
Project #: 0437-017-001-005-0002
(Use Project name as Project #): ☒
Project Manager: Chris Basso
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:

CAT B

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	TCL TCP-51 VOC	Part 375 SVOC	Total Solids	Sample Specific Comments	Total Bottle
B4193-01	Pump Island SW-11 40'	8/29/18	1306	SW	TAB	X	X			4
-02	Pump Island SW-12 5.0'		1314			X	X		aqTics	4
-03	Pump Island SW-13 6.0'		1322			X	X			4
-04	Pump Island SW-4 10.0'		1302			X	X		aqTics	4
-05	Pump Island B-1R(1) 8.5'		1028			X	X	X		4
-06	UST-1 SW-3R(1) 8.5'		1020			X		X		4

Container Type: E A A
Preservative: A A P

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
TAB AAL	8/29/18 1500	JMH AAL	8/29/18 16:45
JMH AAL	8/29/18 17:25	AAL	8/30/18 0135

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:	L1836955
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL AVE.
Project Number:	1585 HERTEL AVE.
Report Date:	09/20/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1836955-01	PUMP ISLAND B-1 R (2) 10.5'	SOIL	BUFFALO, NY	09/17/18 10:05	09/17/18
L1836955-02	PUMP ISLAND B-3 R 10.0'	SOIL	BUFFALO, NY	09/17/18 10:45	09/17/18
L1836955-03	HLA-SW-1 (R) 8.0'	SOIL	BUFFALO, NY	09/17/18 11:10	09/17/18
L1836955-04	BLIND DUP #5	SOIL	BUFFALO, NY	09/17/18 12:00	09/17/18
L1836955-05	UST-1 SW-3 R (2) 11.0	SOIL	BUFFALO, NY	09/17/18 10:20	09/17/18
L1836955-06	UST-3 B-1R 10.0	SOIL	BUFFALO, NY	09/17/18 10:45	09/17/18
L1836955-07	UST-4/MW-1 (0-2) SW-1 R	SOIL	BUFFALO, NY	09/17/18 12:30	09/17/18

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955
Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

Case Narrative

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

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

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

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

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

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

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1836955
Project Number:	1585 HERTEL AVE.	**Report Date:**	09/20/18

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 09/20/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-01
Client ID: PUMP ISLAND B-1 R (2) 10.5'
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 10:05
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/18/18 15:56
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.86	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.86	0.11	1
Dibromochloromethane	ND		ug/kg	0.86	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.23	1
Tetrachloroethene	ND		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.47	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Chloromethane	ND		ug/kg	3.4	0.80	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	ND		ug/kg	0.86	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-01 Date Collected: 09/17/18 10:05

Client ID: PUMP ISLAND B-1 R (2) 10.5' Date Received: 09/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	0.18	J	ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.86	0.15	1
Styrene	ND		ug/kg	0.86	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.79	1
Acetone	14		ug/kg	8.6	4.1	1
Carbon disulfide	ND		ug/kg	8.6	3.9	1
2-Butanone	ND		ug/kg	8.6	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	1.1	1
2-Hexanone	ND		ug/kg	8.6	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.86	0.24	1
n-Butylbenzene	ND		ug/kg	0.86	0.14	1
sec-Butylbenzene	ND		ug/kg	0.86	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.09	1
n-Propylbenzene	ND		ug/kg	0.86	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
Methyl Acetate	ND		ug/kg	3.4	0.82	1
Cyclohexane	ND		ug/kg	8.6	0.47	1
1,4-Dioxane	ND		ug/kg	86	30.	1
Freon-113	ND		ug/kg	3.4	0.60	1
Methyl cyclohexane	ND		ug/kg	3.4	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-02
Client ID: PUMP ISLAND B-3 R 10.0'
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 10:45
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/18/18 16:24
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.1	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.82	0.12	1
Chloroform	ND		ug/kg	1.2	0.12	1
Carbon tetrachloride	ND		ug/kg	0.82	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.82	0.10	1
Dibromochloromethane	ND		ug/kg	0.82	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.82	0.22	1
Tetrachloroethene	ND		ug/kg	0.41	0.16	1
Chlorobenzene	ND		ug/kg	0.41	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.57	1
1,2-Dichloroethane	ND		ug/kg	0.82	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.41	0.14	1
Bromodichloromethane	ND		ug/kg	0.41	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	0.41	0.13	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.41	0.14	1
Benzene	ND		ug/kg	0.41	0.14	1
Toluene	0.55	J	ug/kg	0.82	0.45	1
Ethylbenzene	ND		ug/kg	0.82	0.12	1
Chloromethane	ND		ug/kg	3.3	0.77	1
Bromomethane	ND		ug/kg	1.6	0.48	1
Vinyl chloride	ND		ug/kg	0.82	0.28	1
Chloroethane	ND		ug/kg	1.6	0.37	1
1,1-Dichloroethene	ND		ug/kg	0.82	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1
Trichloroethene	ND		ug/kg	0.41	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-02 Date Collected: 09/17/18 10:45

Client ID: PUMP ISLAND B-3 R 10.0' Date Received: 09/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	8.4		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.46	1
o-Xylene	ND		ug/kg	0.82	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.82	0.14	1
Styrene	ND		ug/kg	0.82	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.2	0.75	1
Acetone	29		ug/kg	8.2	4.0	1
Carbon disulfide	ND		ug/kg	8.2	3.7	1
2-Butanone	ND		ug/kg	8.2	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.2	1.0	1
2-Hexanone	ND		ug/kg	8.2	0.97	1
Bromochloromethane	ND		ug/kg	1.6	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.82	0.23	1
n-Butylbenzene	ND		ug/kg	0.82	0.14	1
sec-Butylbenzene	ND		ug/kg	0.82	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.82	1
Isopropylbenzene	ND		ug/kg	0.82	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.82	0.09	1
n-Propylbenzene	ND		ug/kg	0.82	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.27	1
Methyl Acetate	ND		ug/kg	3.3	0.78	1
Cyclohexane	ND		ug/kg	8.2	0.45	1
1,4-Dioxane	ND		ug/kg	82	29.	1
Freon-113	ND		ug/kg	3.3	0.57	1
Methyl cyclohexane	ND		ug/kg	3.3	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	97		70-130

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.
Lab Number: L1836955
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-03
Client ID: HLA-SW-1 (R) 8.0'
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 11:10
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/18/18 16:52
Analyst: MV
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.23	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.83	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	0.78	J	ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-03 Date Collected: 09/17/18 11:10

Client ID: HLA-SW-1 (R) 8.0' Date Received: 09/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.67	1
o-Xylene	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	12		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
Methyl Acetate	ND		ug/kg	4.8	1.1	1
Cyclohexane	ND		ug/kg	12	0.65	1
1,4-Dioxane	ND		ug/kg	120	42.	1
Freon-113	ND		ug/kg	4.8	0.83	1
Methyl cyclohexane	ND		ug/kg	4.8	0.72	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	94		70-130

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.
Lab Number: L1836955
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-04
Client ID: BLIND DUP #5
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 12:00
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/18/18 17:20
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	4.4	J	ug/kg	7.8	3.6	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.23	1
Chloroform	ND		ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.20	1
Dibromochloromethane	ND		ug/kg	1.6	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.42	1
Tetrachloroethene	ND		ug/kg	0.78	0.31	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.2	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Bromodichloromethane	ND		ug/kg	0.78	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.43	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	0.25	1
Bromoform	ND		ug/kg	6.2	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	0.26	1
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	1.7		ug/kg	1.6	0.85	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Chloromethane	ND		ug/kg	6.2	1.4	1
Bromomethane	ND		ug/kg	3.1	0.91	1
Vinyl chloride	ND		ug/kg	1.6	0.52	1
Chloroethane	ND		ug/kg	3.1	0.71	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-04 Date Collected: 09/17/18 12:00

Client ID: BLIND DUP #5 Date Received: 09/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.87	1
o-Xylene	ND		ug/kg	1.6	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.27	1
Styrene	ND		ug/kg	1.6	0.31	1
Dichlorodifluoromethane	ND		ug/kg	16	1.4	1
Acetone	190		ug/kg	16	7.5	1
Carbon disulfide	ND		ug/kg	16	7.1	1
2-Butanone	ND		ug/kg	16	3.5	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.0	1
2-Hexanone	ND		ug/kg	16	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.32	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.44	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	1.6	1
Isopropylbenzene	ND		ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.17	1
n-Propylbenzene	ND		ug/kg	1.6	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.50	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.42	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
Methyl Acetate	ND		ug/kg	6.2	1.5	1
Cyclohexane	ND		ug/kg	16	0.85	1
1,4-Dioxane	ND		ug/kg	160	55.	1
Freon-113	ND		ug/kg	6.2	1.1	1
Methyl cyclohexane	ND		ug/kg	6.2	0.94	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	96		70-130

Project Name: 1585 HERTEL AVE.
Lab Number: L1836955
Project Number: 1585 HERTEL AVE.
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-05
Client ID: UST-1 SW-3 R (2) 11.0
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 10:20
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/18/18 17:48
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.5	J	ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		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	ND		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	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: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-05 Date Collected: 09/17/18 10:20

Client ID: UST-1 SW-3 R (2) 11.0 Date Received: 09/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - 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	5.0		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	ND		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	130		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
Bromochloromethane	ND		ug/kg	2.2	0.22	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
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
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	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	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	110	38.	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	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	95		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-06
Client ID: UST-3 B-1R 10.0
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 10:45
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/18/18 18:15
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.75	0.29	1
Chlorobenzene	ND		ug/kg	0.75	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.25	1
Bromodichloromethane	ND		ug/kg	0.75	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.25	1
Benzene	ND		ug/kg	0.75	0.25	1
Toluene	ND		ug/kg	1.5	0.82	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.87	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1
Trichloroethene	ND		ug/kg	0.75	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-06 Date Collected: 09/17/18 10:45

Client ID: UST-3 B-1R 10.0 Date Received: 09/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.84	1
o-Xylene	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	45		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.8	1
2-Butanone	ND		ug/kg	15	3.3	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
Methyl Acetate	ND		ug/kg	6.0	1.4	1
Cyclohexane	ND		ug/kg	15	0.82	1
1,4-Dioxane	ND		ug/kg	150	53.	1
Freon-113	ND		ug/kg	6.0	1.0	1
Methyl cyclohexane	ND		ug/kg	6.0	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	97		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-07
Client ID: UST-4/MW-1 (0-2) SW-1 R
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 12:30
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/19/18 00:16
Analyst: NLK
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	4.9	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.31	1
Chloroform	ND		ug/kg	3.2	0.30	1
Carbon tetrachloride	ND		ug/kg	2.1	0.49	1
1,2-Dichloropropane	ND		ug/kg	2.1	0.27	1
Dibromochloromethane	ND		ug/kg	2.1	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.57	1
Tetrachloroethene	ND		ug/kg	1.1	0.42	1
Chlorobenzene	ND		ug/kg	1.1	0.27	1
Trichlorofluoromethane	ND		ug/kg	8.6	1.5	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.55	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.36	1
Bromodichloromethane	ND		ug/kg	1.1	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	2.1	0.58	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.34	1
Bromoform	ND		ug/kg	8.6	0.53	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Benzene	ND		ug/kg	1.1	0.36	1
Toluene	ND		ug/kg	2.1	1.2	1
Ethylbenzene	ND		ug/kg	2.1	0.30	1
Chloromethane	ND		ug/kg	8.6	2.0	1
Bromomethane	ND		ug/kg	4.3	1.2	1
Vinyl chloride	ND		ug/kg	2.1	0.72	1
Chloroethane	ND		ug/kg	4.3	0.97	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	3.2	0.29	1
Trichloroethene	ND		ug/kg	1.1	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.3	0.31	1

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-07 Date Collected: 09/17/18 12:30

Client ID: UST-4/MW-1 (0-2) SW-1 R Date Received: 09/17/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.3	0.32	1
1,4-Dichlorobenzene	ND		ug/kg	4.3	0.37	1
Methyl tert butyl ether	ND		ug/kg	4.3	0.43	1
p/m-Xylene	ND		ug/kg	4.3	1.2	1
o-Xylene	ND		ug/kg	2.1	0.62	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.38	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	21	2.0	1
Acetone	ND		ug/kg	21	10.	1
Carbon disulfide	ND		ug/kg	21	9.8	1
2-Butanone	ND		ug/kg	21	4.8	1
4-Methyl-2-pentanone	ND		ug/kg	21	2.7	1
2-Hexanone	ND		ug/kg	21	2.5	1
Bromochloromethane	ND		ug/kg	4.3	0.44	1
1,2-Dibromoethane	ND		ug/kg	2.1	0.60	1
n-Butylbenzene	ND		ug/kg	2.1	0.36	1
sec-Butylbenzene	ND		ug/kg	2.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	2.1	1
Isopropylbenzene	ND		ug/kg	2.1	0.23	1
p-Isopropyltoluene	ND		ug/kg	2.1	0.23	1
n-Propylbenzene	ND		ug/kg	2.1	0.37	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.3	0.69	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.3	0.58	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.3	0.41	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.3	0.72	1
Methyl Acetate	ND		ug/kg	8.6	2.0	1
Cyclohexane	ND		ug/kg	21	1.2	1
1,4-Dioxane	ND		ug/kg	210	75.	1
Freon-113	ND		ug/kg	8.6	1.5	1
Methyl cyclohexane	ND		ug/kg	8.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/18/18 13:38
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG1158042-10					
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	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: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/18/18 13:38
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG1158042-10					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/18/18 13:38
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG1158042-10					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	95		70-130

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/18/18 15:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1158460-5					
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	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: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/18/18 15:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1158460-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL AVE. **Lab Number:** L1836955

Project Number: 1585 HERTEL AVE. **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/18/18 15:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1158460-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1836955

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG1158042-8 WG1158042-9								
Methylene chloride	91		88		70-130	3		30
1,1-Dichloroethane	89		85		70-130	5		30
Chloroform	90		89		70-130	1		30
Carbon tetrachloride	76		73		70-130	4		30
1,2-Dichloropropane	90		88		70-130	2		30
Dibromochloromethane	78		78		70-130	0		30
1,1,2-Trichloroethane	98		97		70-130	1		30
Tetrachloroethene	86		81		70-130	6		30
Chlorobenzene	91		87		70-130	4		30
Trichlorofluoromethane	124		117		70-139	6		30
1,2-Dichloroethane	84		84		70-130	0		30
1,1,1-Trichloroethane	82		78		70-130	5		30
Bromodichloromethane	82		81		70-130	1		30
trans-1,3-Dichloropropene	88		87		70-130	1		30
cis-1,3-Dichloropropene	81		81		70-130	0		30
Bromoform	73		75		70-130	3		30
1,1,2,2-Tetrachloroethane	100		99		70-130	1		30
Benzene	99		95		70-130	4		30
Toluene	104		101		70-130	3		30
Ethylbenzene	101		96		70-130	5		30
Chloromethane	79		73		52-130	8		30
Bromomethane	133		127		57-147	5		30
Vinyl chloride	103		97		67-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1836955

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG1158042-8 WG1158042-9								
Chloroethane	121		116		50-151	4		30
1,1-Dichloroethene	86		80		65-135	7		30
trans-1,2-Dichloroethene	89		86		70-130	3		30
Trichloroethene	87		83		70-130	5		30
1,2-Dichlorobenzene	95		93		70-130	2		30
1,3-Dichlorobenzene	97		94		70-130	3		30
1,4-Dichlorobenzene	95		93		70-130	2		30
Methyl tert butyl ether	80		79		66-130	1		30
p/m-Xylene	98		93		70-130	5		30
o-Xylene	93		89		70-130	4		30
cis-1,2-Dichloroethene	90		87		70-130	3		30
Styrene	92		89		70-130	3		30
Dichlorodifluoromethane	78		74		30-146	5		30
Acetone	107		101		54-140	6		30
Carbon disulfide	83		78		59-130	6		30
2-Butanone	77		74		70-130	4		30
4-Methyl-2-pentanone	90		88		70-130	2		30
2-Hexanone	81		79		70-130	3		30
Bromochloromethane	82		80		70-130	2		30
1,2-Dibromoethane	94		92		70-130	2		30
n-Butylbenzene	109		103		70-130	6		30
sec-Butylbenzene	104		98		70-130	6		30
1,2-Dibromo-3-chloropropane	82		83		68-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1836955

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG1158042-8 WG1158042-9								
Isopropylbenzene	102		98		70-130	4		30
p-Isopropyltoluene	102		96		70-130	6		30
n-Propylbenzene	107		102		70-130	5		30
1,2,3-Trichlorobenzene	92		92		70-130	0		30
1,2,4-Trichlorobenzene	94		93		70-130	1		30
1,3,5-Trimethylbenzene	102		97		70-130	5		30
1,2,4-Trimethylbenzene	102		98		70-130	4		30
Methyl Acetate	77		79		51-146	3		30
Cyclohexane	83		79		59-142	5		30
1,4-Dioxane	95		90		65-136	5		30
Freon-113	86		82		50-139	5		30
Methyl cyclohexane	92		86		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	104		105		70-130
Dibromofluoromethane	96		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1836955

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1158460-3 WG1158460-4								
Methylene chloride	87		91		70-130	4		30
1,1-Dichloroethane	99		101		70-130	2		30
Chloroform	98		100		70-130	2		30
Carbon tetrachloride	102		104		70-130	2		30
1,2-Dichloropropane	98		101		70-130	3		30
Dibromochloromethane	105		108		70-130	3		30
1,1,2-Trichloroethane	105		109		70-130	4		30
Tetrachloroethene	114		119		70-130	4		30
Chlorobenzene	107		110		70-130	3		30
Trichlorofluoromethane	88		92		70-139	4		30
1,2-Dichloroethane	88		91		70-130	3		30
1,1,1-Trichloroethane	99		102		70-130	3		30
Bromodichloromethane	97		100		70-130	3		30
trans-1,3-Dichloropropene	95		97		70-130	2		30
cis-1,3-Dichloropropene	99		102		70-130	3		30
Bromoform	90		95		70-130	5		30
1,1,2,2-Tetrachloroethane	103		106		70-130	3		30
Benzene	98		101		70-130	3		30
Toluene	109		111		70-130	2		30
Ethylbenzene	110		113		70-130	3		30
Chloromethane	84		85		52-130	1		30
Bromomethane	97		97		57-147	0		30
Vinyl chloride	87		87		67-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1836955

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1158460-3 WG1158460-4								
Chloroethane	82		85		50-151	4		30
1,1-Dichloroethene	91		94		65-135	3		30
trans-1,2-Dichloroethene	101		104		70-130	3		30
Trichloroethene	100		103		70-130	3		30
1,2-Dichlorobenzene	110		115		70-130	4		30
1,3-Dichlorobenzene	112		117		70-130	4		30
1,4-Dichlorobenzene	106		112		70-130	6		30
Methyl tert butyl ether	92		94		66-130	2		30
p/m-Xylene	113		116		70-130	3		30
o-Xylene	111		114		70-130	3		30
cis-1,2-Dichloroethene	99		102		70-130	3		30
Styrene	110		113		70-130	3		30
Dichlorodifluoromethane	65		66		30-146	2		30
Acetone	78		75		54-140	4		30
Carbon disulfide	84		86		59-130	2		30
2-Butanone	91		90		70-130	1		30
4-Methyl-2-pentanone	93		92		70-130	1		30
2-Hexanone	91		92		70-130	1		30
Bromochloromethane	100		102		70-130	2		30
1,2-Dibromoethane	96		98		70-130	2		30
n-Butylbenzene	116		123		70-130	6		30
sec-Butylbenzene	113		118		70-130	4		30
1,2-Dibromo-3-chloropropane	88		92		68-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1836955

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1158460-3 WG1158460-4								
Isopropylbenzene	114		118		70-130	3		30
p-Isopropyltoluene	116		121		70-130	4		30
n-Propylbenzene	114		119		70-130	4		30
1,2,3-Trichlorobenzene	107		111		70-130	4		30
1,2,4-Trichlorobenzene	113		118		70-130	4		30
1,3,5-Trimethylbenzene	113		118		70-130	4		30
1,2,4-Trimethylbenzene	113		118		70-130	4		30
Methyl Acetate	78		80		51-146	3		30
Cyclohexane	102		104		59-142	2		30
1,4-Dioxane	92		88		65-136	4		30
Freon-113	90		91		50-139	1		30
Methyl cyclohexane	102		105		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		93		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	99		99		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1836955

Report Date: 09/20/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1158460-6 WG1158460-7 QC Sample: L1836955-07 Client ID: UST-4/MW-1 (0-2) SW-1 R												
Methylene chloride	ND	112	97	86		86	93		70-130	12		30
1,1-Dichloroethane	ND	112	110	94		92	98		70-130	15		30
Chloroform	ND	112	98	87		88	94		70-130	11		30
Carbon tetrachloride	ND	112	110	100		97	104		70-130	14		30
1,2-Dichloropropane	ND	112	97	87		91	97		70-130	7		30
Dibromochloromethane	ND	112	93	83		97	104		70-130	4		30
1,1,2-Trichloroethane	ND	112	96	85		96	102		70-130	0		30
Tetrachloroethene	ND	112	92	82		100	107		70-130	8		30
Chlorobenzene	ND	112	79	70		91	97		70-130	14		30
Trichlorofluoromethane	ND	112	100	93		86	92		70-139	19		30
1,2-Dichloroethane	ND	112	84	75		80	85		70-130	5		30
1,1,1-Trichloroethane	ND	112	110	96		93	99		70-130	15		30
Bromodichloromethane	ND	112	95	84		91	97		70-130	4		30
trans-1,3-Dichloropropene	ND	112	80	72		87	93		70-130	8		30
cis-1,3-Dichloropropene	ND	112	89	79		92	99		70-130	4		30
Bromoform	ND	112	77	**68**	Q	83	89		70-130	7		30
1,1,2,2-Tetrachloroethane	ND	112	81	72		88	94		70-130	8		30
Benzene	ND	112	99	88		90	96		70-130	9		30
Toluene	ND	112	95	84		97	103		70-130	2		30
Ethylbenzene	ND	112	80	71		94	101		70-130	16		30
Chloromethane	ND	112	94	84		85	91		52-130	10		30
Bromomethane	ND	112	93	83		84	90		57-147	10		30
Vinyl chloride	ND	112	110	95		89	96		67-130	18		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1836955

Report Date: 09/20/18

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1158460-6 WG1158460-7 QC Sample: L1836955-07 Client ID: UST-4/MW-1 (0-2) SW-1 R												
Chloroethane	ND	112	92	82		84	90		50-151	9		30
1,1-Dichloroethene	ND	112	110	96		89	95		65-135	20		30
trans-1,2-Dichloroethene	ND	112	110	96		95	101		70-130	13		30
Trichloroethene	ND	112	97	87		92	98		70-130	6		30
1,2-Dichlorobenzene	ND	112	56	**50**	Q	81	87		70-130	**36**	Q	30
1,3-Dichlorobenzene	ND	112	57	**51**	Q	84	90		70-130	**38**	Q	30
1,4-Dichlorobenzene	ND	112	52	**47**	Q	78	84		70-130	**40**	Q	30
Methyl tert butyl ether	ND	112	90	80		82	88		66-130	9		30
p/m-Xylene	ND	224	160	70		190	102		70-130	20		30
o-Xylene	ND	224	150	**68**	Q	180	99		70-130	18		30
cis-1,2-Dichloroethene	ND	112	100	90		91	98		70-130	10		30
Styrene	ND	224	150	**66**	Q	190	100		70-130	24		30
Dichlorodifluoromethane	ND	112	84	75		77	82		30-146	10		30
Acetone	ND	112	82	73		99	106		54-140	19		30
Carbon disulfide	ND	112	100	91		84	90		59-130	19		30
2-Butanone	ND	112	75	**66**	Q	75	80		70-130	0		30
4-Methyl-2-pentanone	ND	112	82	73		82	88		70-130	0		30
2-Hexanone	ND	112	75	**67**	Q	80	86		70-130	7		30
Bromochloromethane	ND	112	96	85		89	95		70-130	7		30
1,2-Dibromoethane	ND	112	81	72		85	91		70-130	4		30
n-Butylbenzene	ND	112	53	**47**	Q	86	92		70-130	**48**	Q	30
sec-Butylbenzene	ND	112	64	**57**	Q	88	95		70-130	**33**	Q	30
1,2-Dibromo-3-chloropropane	ND	112	64	**57**	Q	75	80		68-130	15		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1158460-6 WG1158460-7 QC Sample: L1836955-07 Client ID: UST-4/MW-1 (0-2) SW-1 R												
Isopropylbenzene	ND	112	78	**69**	Q	95	102		70-130	21		30
p-Isopropyltoluene	ND	112	59	**52**	Q	88	95		70-130	**41**	Q	30
n-Propylbenzene	ND	112	67	**60**	Q	93	100		70-130	**32**	Q	30
1,2,3-Trichlorobenzene	ND	112	37	**32**	Q	59	**64**	Q	70-130	**47**	Q	30
1,2,4-Trichlorobenzene	ND	112	41	**36**	Q	65	70		70-130	**46**	Q	30
1,3,5-Trimethylbenzene	ND	112	65	**58**	Q	88	95		70-130	**31**	Q	30
1,2,4-Trimethylbenzene	ND	112	61	**54**	Q	88	95		70-130	**36**	Q	30
Methyl Acetate	ND	112	120	104		86	92		51-146	30		30
Cyclohexane	ND	112	110	102		95	102		59-142	18		30
1,4-Dioxane	ND	5610	5500	98		3800	82		65-136	**36**	Q	30
Freon-113	ND	112	120	106		85	91		50-139	**34**	Q	30
Methyl cyclohexane	ND	112	110	96		91	98		70-130	17		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	100		99		70-130
Toluene-d8	105		106		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-01
Client ID: PUMP ISLAND B-1 R (2) 10.5'
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 10:05
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	09/18/18 08:53	121,2540G	AM

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-02
Client ID: PUMP ISLAND B-3 R 10.0'
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 10:45
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	09/18/18 08:53	121,2540G	AM

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-03
Client ID: HLA-SW-1 (R) 8.0'
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 11:10
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	09/18/18 08:53	121,2540G	AM

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-04
Client ID: BLIND DUP #5
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 12:00
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	09/18/18 08:53	121,2540G	AM

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-05
Client ID: UST-1 SW-3 R (2) 11.0
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 10:20
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	09/18/18 08:53	121,2540G	AM

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-06
Client ID: UST-3 B-1R 10.0
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 10:45
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	09/18/18 08:53	121,2540G	AM

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1836955-07
Client ID: UST-4/MW-1 (0-2) SW-1 R
Sample Location: BUFFALO, NY

Date Collected: 09/17/18 12:30
Date Received: 09/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.5		%	0.100	NA	1	-	09/18/18 08:53	121,2540G	AM

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL AVE.

Project Number: 1585 HERTEL AVE.

Lab Number: L1836955

Report Date: 09/20/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1158040-1 QC Sample: L1836955-07 Client ID: UST-4/MW-1 (0-2) SW-1 R						
Solids, Total	97.5	84.0	%	15		20

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

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(*)
L1836955-01A	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-01B	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-01C	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-01D	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L1836955-01X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-01Y	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-01Z	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-02A	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-02B	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-02C	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-02D	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L1836955-02X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-02Y	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-02Z	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-03A	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-03B	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-03C	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-03D	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L1836955-03X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-03Y	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-03Z	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-04A	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-04B	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1836955-04C	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-04D	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L1836955-04X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-04Y	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-04Z	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-05A	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-05B	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-05C	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-05D	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L1836955-05X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-05Y	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-05Z	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-06A	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-06B	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-06C	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-06D	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L1836955-06X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-06Y	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-06Z	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-07A	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07A1	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07A2	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07B	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07B1	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07B2	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07C	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07C1	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07C2	5 gram Encore Sampler	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1836955-07D	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L1836955-07D1	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L1836955-07D2	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L1836955-07X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07X1	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07X2	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1836955-07Y	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-07Y1	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-07Y2	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-07Z	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-07Z1	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)
L1836955-07Z2	Vial Water preserved split	A	NA		5.2	Y	Absent	18-SEP-18 06:43	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1836955
Project Number:	1585 HERTEL AVE.	**Report Date:**	09/20/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1836955
Project Number:	1585 HERTEL AVE.	**Report Date:**	09/20/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL AVE.	**Lab Number:**	L1836955
Project Number:	1585 HERTEL AVE.	**Report Date:**	09/20/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 9/18/18

ALPHA Job #: L1836955

Client Information
Client: Beechnut Gas
Address: 2558 Hamburg Turnpike
Lackawanna NY 14218
Phone: (716) 818-8857
Fax: (716) 855-0583
Email: JBlack@Rudeylle.com

Project Information
Project Name: 1585 Niagara Ave
Project Location: Buffalo NY
Project #: 043-017-001-006-002
(Use Project name as Project #) [X]
Project Manager: Chris Bauer
ALPHAQuote #:

Turn-Around Time
Standard [ ] Due Date:
Rush (only if pre approved) [X] # of Days: 3DAY

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:
CAT B

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	Total Solids	TCL+CP-51 Vol 8260							Sample Specific Comments	Total Bottle
36955-01	Pump Island B-1 R(2) 10.5'	9/17/18	1005	Soil	TAS	1	3								4
02	Pump Island B-3 R 10.0		1045			1	3								4
03	HLA-SW-1(R) 4.0'		1110			1	3	1							4
04	Blind Dup #5		1200			1	3								4
05	UST-1 SW-3 R(2) 11.0		1020			1	3								4
06	UST-3 B-1 R 10.0		1045			1	3								4
07	UST-4/MW-1 (0-2) SW-1 R (MS/MSD)		1230			3	9								12

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	E	
Preservative	P	A	

Relinquished By:	Date/Time	Received By:	Date/Time
AAR	9/17/18 1655	HAL	9/17/18 1655
AAR	9/17/18 1655		9/18/18 0645

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:	L1837169
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	1585 HERTEL
Project Number:	0437-017-001-002-006
Report Date:	09/21/18

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), 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: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1837169-01	PUMP ISLAND SW-11 R 5.0'	SOIL	BUFFALO	09/18/18 10:20	09/18/18
L1837169-02	UST-4/MW-1 SW-3R (0-2)	SOIL	BUFFALO	09/18/18 10:30	09/18/18

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

Case Narrative

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

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

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

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

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

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

Project Name:	1585 HERTEL	**Lab Number:**	L1837169
Project Number:	0437-017-001-002-006	**Report Date:**	09/21/18

Case Narrative (continued)

Report Submission

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

Total Metals

L1837169-02: 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.

The WG1159262-1 Method Blank, associated with L1837169-02, has a concentration above the reporting limit for iron. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

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

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 09/21/18

ORGANICS

VOLATILES

Project Name: 1585 HERTEL **Lab Number:** L1837169

Project Number: 0437-017-001-002-006 **Report Date:** 09/21/18

SAMPLE RESULTS

Lab ID: L1837169-01
Client ID: PUMP ISLAND SW-11 R 5.0'
Sample Location: BUFFALO

Date Collected: 09/18/18 10:20
Date Received: 09/18/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/20/18 12:04
Analyst: MKS
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.26	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.22	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.73	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.68	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1

Project Name: 1585 HERTEL **Lab Number:** L1837169

Project Number: 0437-017-001-002-006 **Report Date:** 09/21/18

SAMPLE RESULTS

Lab ID: L1837169-01 Date Collected: 09/18/18 10:20

Client ID: PUMP ISLAND SW-11 R 5.0' Date Received: 09/18/18

Sample Location: BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	0.51	J	ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
Styrene	ND		ug/kg	1.4	0.26	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	57		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.1	1
2-Butanone	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
n-Butylbenzene	ND		ug/kg	1.4	0.22	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.4	1.3	1
Cyclohexane	ND		ug/kg	14	0.74	1
1,4-Dioxane	ND		ug/kg	140	47.	1
Freon-113	ND		ug/kg	5.4	0.94	1
Methyl cyclohexane	ND		ug/kg	5.4	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	127		70-130
Dibromofluoromethane	94		70-130

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006
Lab Number: L1837169
Report Date: 09/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/18 08:49
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1158945-5					
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	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: 1585 HERTEL
Project Number: 0437-017-001-002-006
Lab Number: L1837169
Report Date: 09/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/18 08:49
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1158945-5					
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
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006
Lab Number: L1837169
Report Date: 09/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/18 08:49
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1158945-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1158945-3 WG1158945-4								
Methylene chloride	94		89		70-130	5		30
1,1-Dichloroethane	92		87		70-130	6		30
Chloroform	94		90		70-130	4		30
Carbon tetrachloride	78		75		70-130	4		30
1,2-Dichloropropane	94		88		70-130	7		30
Dibromochloromethane	83		82		70-130	1		30
1,1,2-Trichloroethane	102		100		70-130	2		30
Tetrachloroethene	85		80		70-130	6		30
Chlorobenzene	91		88		70-130	3		30
Trichlorofluoromethane	124		117		70-139	6		30
1,2-Dichloroethane	89		86		70-130	3		30
1,1,1-Trichloroethane	83		78		70-130	6		30
Bromodichloromethane	86		82		70-130	5		30
trans-1,3-Dichloropropene	92		91		70-130	1		30
cis-1,3-Dichloropropene	87		84		70-130	4		30
Bromoform	80		81		70-130	1		30
1,1,2,2-Tetrachloroethane	105		105		70-130	0		30
Benzene	102		97		70-130	5		30
Toluene	102		97		70-130	5		30
Ethylbenzene	103		98		70-130	5		30
Chloromethane	77		73		52-130	5		30
Bromomethane	134		130		57-147	3		30
Vinyl chloride	106		98		67-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-002-006

Lab Number: L1837169

Report Date: 09/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1158945-3 WG1158945-4								
Chloroethane	132		121		50-151	9		30
1,1-Dichloroethene	86		80		65-135	7		30
trans-1,2-Dichloroethene	90		85		70-130	6		30
Trichloroethene	88		83		70-130	6		30
1,2-Dichlorobenzene	98		95		70-130	3		30
1,3-Dichlorobenzene	100		96		70-130	4		30
1,4-Dichlorobenzene	100		96		70-130	4		30
Methyl tert butyl ether	83		81		66-130	2		30
p/m-Xylene	99		94		70-130	5		30
o-Xylene	93		89		70-130	4		30
cis-1,2-Dichloroethene	92		88		70-130	4		30
Styrene	94		90		70-130	4		30
Dichlorodifluoromethane	79		73		30-146	8		30
Acetone	115		109		54-140	5		30
Carbon disulfide	84		79		59-130	6		30
2-Butanone	78		78		70-130	0		30
4-Methyl-2-pentanone	91		94		70-130	3		30
2-Hexanone	79		79		70-130	0		30
Bromochloromethane	85		82		70-130	4		30
1,2-Dibromoethane	97		95		70-130	2		30
n-Butylbenzene	114		110		70-130	4		30
sec-Butylbenzene	107		102		70-130	5		30
1,2-Dibromo-3-chloropropane	85		89		68-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-002-006

Lab Number: L1837169

Report Date: 09/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1158945-3 WG1158945-4								
Isopropylbenzene	106		100		70-130	6		30
p-Isopropyltoluene	104		99		70-130	5		30
n-Propylbenzene	112		105		70-130	6		30
1,2,3-Trichlorobenzene	93		94		70-130	1		30
1,2,4-Trichlorobenzene	97		95		70-130	2		30
1,3,5-Trimethylbenzene	104		100		70-130	4		30
1,2,4-Trimethylbenzene	105		100		70-130	5		30
Methyl Acetate	82		86		51-146	5		30
Cyclohexane	84		78		59-142	7		30
1,4-Dioxane	88		98		65-136	11		30
Freon-113	85		80		50-139	6		30
Methyl cyclohexane	93		87		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	106		107		70-130
4-Bromofluorobenzene	107		108		70-130
Dibromofluoromethane	95		95		70-130

METALS

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006
Lab Number: L1837169
Report Date: 09/21/18

SAMPLE RESULTS

Lab ID: L1837169-02
Client ID: UST-4/MW-1 SW-3R (0-2)
Sample Location: BUFFALO
Date Collected: 09/18/18 10:30
Date Received: 09/18/18
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	12200		mg/kg	9.47	2.56	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Antimony, Total	1.09	J	mg/kg	4.73	0.360	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Arsenic, Total	6.51		mg/kg	0.947	0.197	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Barium, Total	129		mg/kg	0.947	0.165	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Beryllium, Total	0.729		mg/kg	0.473	0.031	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Cadmium, Total	0.606	J	mg/kg	0.947	0.093	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Calcium, Total	4810		mg/kg	9.47	3.31	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Chromium, Total	16.7		mg/kg	0.947	0.091	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Cobalt, Total	11.2		mg/kg	1.89	0.157	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Copper, Total	21.9		mg/kg	0.947	0.244	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Iron, Total	24300		mg/kg	4.73	0.855	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Lead, Total	17.0		mg/kg	4.73	0.254	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Magnesium, Total	4060		mg/kg	9.47	1.46	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Manganese, Total	713		mg/kg	0.947	0.150	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.078	0.017	1	09/21/18 06:30	09/21/18 11:32	EPA 7471B	1,7471B	MG
Nickel, Total	22.5		mg/kg	2.37	0.229	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Potassium, Total	892		mg/kg	237	13.6	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Selenium, Total	0.909	J	mg/kg	1.89	0.244	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.947	0.268	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Sodium, Total	402		mg/kg	189	2.98	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.89	0.298	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Vanadium, Total	27.4		mg/kg	0.947	0.192	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB
Zinc, Total	62.9		mg/kg	4.73	0.277	2	09/21/18 08:00	09/21/18 10:13	EPA 3050B	1,6010D	AB

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006
Lab Number: L1837169
Report Date: 09/21/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1159243-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	09/21/18 06:30	09/21/18 11:25	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1159262-1										
Aluminum, Total	1.28	J	mg/kg	4.00	1.08	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Antimony, Total	0.152	J	mg/kg	2.00	0.152	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Calcium, Total	1.66	J	mg/kg	4.00	1.40	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Iron, Total	2.14		mg/kg	2.00	0.361	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Manganese, Total	0.336	J	mg/kg	0.400	0.064	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Potassium, Total	9.82	J	mg/kg	100	5.76	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Sodium, Total	7.77	J	mg/kg	80.0	1.26	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/21/18 08:00	09/21/18 09:40	1,6010D	AB

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006
Lab Number: L1837169
Report Date: 09/21/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-002-006

Lab Number: L1837169

Report Date: 09/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1159243-2 SRM Lot Number: D102-540								
Mercury, Total	88		-		65-134	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-002-006

Lab Number: L1837169

Report Date: 09/21/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1159262-2 SRM Lot Number: D102-540					
Aluminum, Total	58	-	49-150	-	
Antimony, Total	151	-	1-199	-	
Arsenic, Total	91	-	83-117	-	
Barium, Total	88	-	83-118	-	
Beryllium, Total	92	-	83-116	-	
Cadmium, Total	100	-	83-118	-	
Calcium, Total	85	-	82-118	-	
Chromium, Total	85	-	83-117	-	
Cobalt, Total	90	-	84-116	-	
Copper, Total	89	-	84-116	-	
Iron, Total	68	-	61-139	-	
Lead, Total	90	-	82-118	-	
Magnesium, Total	83	-	76-124	-	
Manganese, Total	98	-	82-118	-	
Nickel, Total	90	-	83-117	-	
Potassium, Total	78	-	70-130	-	
Selenium, Total	95	-	79-121	-	
Silver, Total	91	-	80-120	-	
Sodium, Total	104	-	74-126	-	
Thallium, Total	97	-	81-119	-	
Vanadium, Total	85	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-002-006

Lab Number: L1837169

Report Date: 09/21/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1159262-2 SRM Lot Number: D102-540					
Zinc, Total	87	-	81-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1159243-3 QC Sample: L1837169-02 Client ID: UST-4/MW-1 SW-3R (0-2)												
Mercury, Total	ND	0.153	0.180	117		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

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 QC Batch ID: WG1159262-3 WG1159262-4 QC Sample: L1837681-08 Client ID: MS Sample												
Aluminum, Total	9220	240	9600	**158**	Q	9310	**38**	Q	75-125	3		20
Antimony, Total	0.998J	60	38.6	**64**	Q	36.6	**61**	Q	75-125	5		20
Arsenic, Total	9.17	14.4	21.0	82		20.5	79		75-125	2		20
Barium, Total	63.9	240	232	**70**	Q	226	**68**	Q	75-125	3		20
Beryllium, Total	0.463	6	4.62	**69**	Q	4.54	**68**	Q	75-125	2		20
Cadmium, Total	0.692	6.12	5.06	**71**	Q	4.95	**70**	Q	75-125	2		20
Calcium, Total	5350	1200	5800	**37**	Q	5600	**21**	Q	75-125	4		20
Chromium, Total	39.1	24	63.5	102		52.8	**57**	Q	75-125	18		20
Cobalt, Total	17.4	60	58.2	**68**	Q	54.5	**62**	Q	75-125	7		20
Copper, Total	33.1	30	58.1	83		54.3	**71**	Q	75-125	7		20
Iron, Total	22800	120	23800	**833**	Q	22900	84		75-125	4		20
Lead, Total	20.1	61.2	59.4	**64**	Q	58.1	**62**	Q	75-125	2		20
Magnesium, Total	3860	1200	4480	**52**	Q	4070	**18**	Q	75-125	10		20
Manganese, Total	881.	60	880	**0**	Q	787	**0**	Q	75-125	11		20
Nickel, Total	98.2	60	162	106		131	**55**	Q	75-125	**21**	Q	20
Potassium, Total	719.	1200	1510	**66**	Q	1450	**61**	Q	75-125	4		20
Selenium, Total	1.25	14.4	11.6	**72**	Q	11.3	**70**	Q	75-125	3		20
Silver, Total	ND	36	28.0	78		27.5	77		75-125	2		20
Sodium, Total	41.0J	1200	978	81		957	80		75-125	2		20
Thallium, Total	ND	14.4	8.48	**59**	Q	8.30	**58**	Q	75-125	2		20
Vanadium, Total	16.4	60	59.4	**72**	Q	57.8	**69**	Q	75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

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 QC Batch ID: WG1159262-3 WG1159262-4 QC Sample: L1837681-08 Client ID: MS Sample										
Zinc, Total	90.3	60	138	79	133	**71**	Q	75-125	4	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-002-006

Lab Number: L1837169

Report Date: 09/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1159243-4 QC Sample: L1837169-02 Client ID: UST-4/MW-1 SW-3R (0-2)						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

SAMPLE RESULTS

Lab ID: L1837169-01
Client ID: PUMP ISLAND SW-11 R 5.0'
Sample Location: BUFFALO

Date Collected: 09/18/18 10:20
Date Received: 09/18/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	09/19/18 12:06	121,2540G	AM

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

SAMPLE RESULTS

Lab ID: L1837169-02
Client ID: UST-4/MW-1 SW-3R (0-2)
Sample Location: BUFFALO

Date Collected: 09/18/18 10:30
Date Received: 09/18/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	09/19/18 12:06	121,2540G	AM

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1585 HERTEL

Project Number: 0437-017-001-002-006

Lab Number: L1837169

Report Date: 09/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1158552-1 QC Sample: L1836759-06 Client ID: DUP Sample						
Solids, Total	94.5	93.6	%	1		20

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

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(*)
L1837169-01A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1837169-01B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1837169-01C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1837169-01D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1837169-01X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1837169-01Y	Vial Water preserved split	A	NA		2.2	Y	Absent	19-SEP-18 05:14	NYTCL-8260HLW-R2(14)
L1837169-01Z	Vial Water preserved split	A	NA		2.2	Y	Absent	19-SEP-18 05:14	NYTCL-8260HLW-R2(14)
L1837169-02A	Glass 60ml unpreserved split	A	NA		2.2	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),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1837169-02B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	1585 HERTEL	**Lab Number:**	L1837169
Project Number:	0437-017-001-002-006	**Report Date:**	09/21/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
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.
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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL	**Lab Number:**	L1837169
Project Number:	0437-017-001-002-006	**Report Date:**	09/21/18

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1585 HERTEL	**Lab Number:**	L1837169
Project Number:	0437-017-001-002-006	**Report Date:**	09/21/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

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: 9/19/18

ALPHA Job #: L1837169

Client Information
Client: Benchmark Eng
Address: 2558 Hamburg Turnpike Lackawanna NY 14218
Phone: (716) 828-8358
Fax: (716) 856-0635
Email: TBolton@benchmarkeng.com

Project Information
Project Name: 1585 Hertel
Project Location: Buffalo
Project #: 0437-017-001-602-006
(Use Project name as Project #) ☒
Project Manager: Chris Borer
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3 DAY

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:

CAT B

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	Total Soils	Filter-SVOC 8260	TAL METALS	Sample Specific Comments	Total Bottle
37169 -01	Pump Island SW-11R 5.0'	9/18/18	1020	Soil	TAB	X	X			4
-02	UST-4/MW-1 SW-3R (0-2)	↓	1030	↓	↓			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	P	E	A							
Preservative	A	A	A							

Relinquished By:	Date/Time	Received By:	Date/Time
TBolton	9/18/18 16:15	JM AAL	9/18/18 16:15
JM AAL	9/18/18 16:55	Nam	9/19/18 1325

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)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-142077-1
Client Project/Site: Benchmark - 1585 Hertel Ave site

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron

Authorized for release by:
9/25/2018 10:18:09 AM

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-142077-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-142077-1

Comments
No additional comments.

Receipt
The sample was received on 9/20/2018 3:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 4.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

Client Sample ID: UST-1 SW-3 (3) 11.0'

Lab Sample ID: 480-142077-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.0	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	0.60	J	4.6	0.45	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

Client Sample ID: UST-1 SW-3 (3) 11.0'
Date Collected: 09/20/18 14:00
Date Received: 09/20/18 15:00

Lab Sample ID: 480-142077-1
Matrix: Solid
Percent Solids: 87.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.75	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,2,4-Trimethylbenzene	ND		4.6	0.88	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,3,5-Trimethylbenzene	ND		4.6	0.30	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
1,4-Dichlorobenzene	ND		4.6	0.64	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
4-Isopropyltoluene	ND		4.6	0.37	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Acetone	**4.0**	**J**	23	3.9	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Benzene	ND		4.6	0.23	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Bromodichloromethane	ND		4.6	0.62	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Carbon tetrachloride	ND		4.6	0.44	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Chloroform	ND		4.6	0.28	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
m,p-Xylene	ND		9.2	0.77	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Methyl tert-butyl ether	**0.60**	**J**	4.6	0.45	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
n-Butylbenzene	ND		4.6	0.40	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
N-Propylbenzene	ND		4.6	0.37	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
o-Xylene	ND		4.6	0.60	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
sec-Butylbenzene	ND		4.6	0.40	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Styrene	ND		4.6	0.23	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
tert-Butylbenzene	ND		4.6	0.48	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

Client Sample ID: UST-1 SW-3 (3) 11.0'
Date Collected: 09/20/18 14:00
Date Received: 09/20/18 15:00

Lab Sample ID: 480-142077-1
Matrix: Solid
Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Toluene	ND		4.6	0.35	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
trans-1,2-Dichloroethene	ND		4.6	0.47	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Trichlorofluoromethane	ND		4.6	0.43	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	09/21/18 14:10	09/22/18 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*09/21/18 14:10*	*09/22/18 00:58*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*09/21/18 14:10*	*09/22/18 00:58*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*09/21/18 14:10*	*09/22/18 00:58*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*09/21/18 14:10*	*09/22/18 00:58*	*1*

Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-142077-1	UST-1 SW-3 (3) 11.0'	101	95	99	98
LCS 480-435617/1-A	Lab Control Sample	97	98	102	99
LCSD 480-435617/2-A	Lab Control Sample Dup	98	98	101	99
MB 480-435617/3-A	Method Blank	100	95	98	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-435617/3-A
Matrix: Solid
Analysis Batch: 435653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
2-Hexanone	ND		25	2.5	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Acetone	ND		25	4.2	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Benzene	ND		5.0	0.25	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Bromoform	ND		5.0	2.5	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Bromomethane	ND		5.0	0.45	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Chloroethane	ND		5.0	1.1	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Chloroform	ND		5.0	0.31	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Chloromethane	ND		5.0	0.30	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Cyclohexane	ND		5.0	0.70	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
m,p-Xylene	ND		10	0.84	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Methyl acetate	ND		25	3.0	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Methylene Chloride	2.36	J	5.0	2.3	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
o-Xylene	ND		5.0	0.65	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Styrene	ND		5.0	0.25	ug/Kg		09/21/18 14:10	09/21/18 23:55	1

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

Lab Sample ID: MB 480-435617/3-A
Matrix: Solid
Analysis Batch: 435653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Toluene	ND		5.0	0.38	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Trichloroethene	ND		5.0	1.1	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		09/21/18 14:10	09/21/18 23:55	1
Xylenes, Total	ND		10	0.84	ug/Kg		09/21/18 14:10	09/21/18 23:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*09/21/18 14:10*	*09/21/18 23:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*09/21/18 14:10*	*09/21/18 23:55*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*09/21/18 14:10*	*09/21/18 23:55*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*09/21/18 14:10*	*09/21/18 23:55*	*1*

Lab Sample ID: LCS 480-435617/1-A
Matrix: Solid
Analysis Batch: 435653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.8		ug/Kg		98	77 - 121
1,1,2,2-Tetrachloroethane	50.0	54.0		ug/Kg		108	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/Kg		94	60 - 140
1,1,2-Trichloroethane	50.0	53.0		ug/Kg		106	78 - 122
1,1-Dichloroethane	50.0	50.8		ug/Kg		102	73 - 126
1,1-Dichloroethene	50.0	49.9		ug/Kg		100	59 - 125
1,2,4-Trichlorobenzene	50.0	46.3		ug/Kg		93	64 - 120
1,2,4-Trimethylbenzene	50.0	50.4		ug/Kg		101	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.3		ug/Kg		97	63 - 124
1,2-Dibromoethane	50.0	53.7		ug/Kg		107	78 - 120
1,2-Dichlorobenzene	50.0	50.3		ug/Kg		101	75 - 120
1,2-Dichloroethane	50.0	49.0		ug/Kg		98	77 - 122
1,2-Dichloropropane	50.0	52.4		ug/Kg		105	75 - 124
1,3,5-Trimethylbenzene	50.0	50.8		ug/Kg		102	74 - 120
1,3-Dichlorobenzene	50.0	50.9		ug/Kg		102	74 - 120
1,4-Dichlorobenzene	50.0	50.9		ug/Kg		102	73 - 120
2-Butanone (MEK)	250	275		ug/Kg		110	70 - 134
2-Hexanone	250	260		ug/Kg		104	59 - 130
4-Isopropyltoluene	50.0	50.1		ug/Kg		100	74 - 120
4-Methyl-2-pentanone (MIBK)	250	252		ug/Kg		101	65 - 133
Acetone	250	267		ug/Kg		107	61 - 137
Benzene	50.0	52.5		ug/Kg		105	79 - 127
Bromodichloromethane	50.0	53.1		ug/Kg		106	80 - 122
Bromoform	50.0	51.2		ug/Kg		102	68 - 126
Bromomethane	50.0	65.1		ug/Kg		130	37 - 149
Carbon disulfide	50.0	48.7		ug/Kg		97	64 - 131

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

Lab Sample ID: LCS 480-435617/1-A
Matrix: Solid
Analysis Batch: 435653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	48.2		ug/Kg		96	75 - 135
Chlorobenzene	50.0	51.7		ug/Kg		103	76 - 124
Chloroethane	50.0	65.4		ug/Kg		131	69 - 135
Chloroform	50.0	50.6		ug/Kg		101	80 - 120
Chloromethane	50.0	44.6		ug/Kg		89	63 - 127
cis-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	81 - 120
cis-1,3-Dichloropropene	50.0	53.3		ug/Kg		107	80 - 120
Cyclohexane	50.0	47.0		ug/Kg		94	65 - 120
Dibromochloromethane	50.0	52.3		ug/Kg		105	76 - 125
Dichlorodifluoromethane	50.0	46.9		ug/Kg		94	57 - 142
Ethylbenzene	50.0	51.0		ug/Kg		102	80 - 120
Isopropylbenzene	50.0	50.7		ug/Kg		101	72 - 120
m,p-Xylene	50.0	51.5		ug/Kg		103	70 - 130
Methyl acetate	100	102		ug/Kg		102	55 - 136
Methyl tert-butyl ether	50.0	52.2		ug/Kg		104	63 - 125
Methylcyclohexane	50.0	48.3		ug/Kg		97	60 - 140
Methylene Chloride	50.0	48.8		ug/Kg		98	61 - 127
n-Butylbenzene	50.0	48.8		ug/Kg		98	70 - 120
N-Propylbenzene	50.0	51.0		ug/Kg		102	70 - 130
o-Xylene	50.0	50.8		ug/Kg		102	70 - 130
sec-Butylbenzene	50.0	49.8		ug/Kg		100	74 - 120
Styrene	50.0	52.9		ug/Kg		106	80 - 120
tert-Butylbenzene	50.0	49.9		ug/Kg		100	73 - 120
Tetrachloroethene	50.0	49.1		ug/Kg		98	74 - 122
Toluene	50.0	51.2		ug/Kg		102	74 - 128
trans-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	78 - 126
trans-1,3-Dichloropropene	50.0	51.9		ug/Kg		104	73 - 123
Trichloroethene	50.0	50.7		ug/Kg		101	77 - 129
Trichlorofluoromethane	50.0	46.2		ug/Kg		92	65 - 146
Vinyl chloride	50.0	44.7		ug/Kg		89	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*99*		*71 - 125*

Lab Sample ID: LCSD 480-435617/2-A
Matrix: Solid
Analysis Batch: 435653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 435617

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	47.5		ug/Kg		95	77 - 121	3	20
1,1,2,2-Tetrachloroethane	50.0	52.8		ug/Kg		106	80 - 120	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.0		ug/Kg		92	60 - 140	2	20
1,1,2-Trichloroethane	50.0	52.0		ug/Kg		104	78 - 122	2	20
1,1-Dichloroethane	50.0	49.9		ug/Kg		100	73 - 126	2	20

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

Lab Sample ID: LCSD 480-435617/2-A
Matrix: Solid
Analysis Batch: 435653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 435617

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	50.0	48.9		ug/Kg		98	59 - 125	2	20
1,2,4-Trichlorobenzene	50.0	45.5		ug/Kg		91	64 - 120	2	20
1,2,4-Trimethylbenzene	50.0	50.3		ug/Kg		101	74 - 120	0	20
1,2-Dibromo-3-Chloropropane	50.0	46.0		ug/Kg		92	63 - 124	5	20
1,2-Dibromoethane	50.0	52.7		ug/Kg		105	78 - 120	2	20
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	75 - 120	1	20
1,2-Dichloroethane	50.0	48.7		ug/Kg		97	77 - 122	0	20
1,2-Dichloropropane	50.0	52.1		ug/Kg		104	75 - 124	1	20
1,3,5-Trimethylbenzene	50.0	50.4		ug/Kg		101	74 - 120	1	20
1,3-Dichlorobenzene	50.0	50.7		ug/Kg		101	74 - 120	0	20
1,4-Dichlorobenzene	50.0	50.3		ug/Kg		101	73 - 120	1	20
2-Butanone (MEK)	250	258		ug/Kg		103	70 - 134	6	20
2-Hexanone	250	244		ug/Kg		97	59 - 130	6	20
4-Isopropyltoluene	50.0	50.0		ug/Kg		100	74 - 120	0	20
4-Methyl-2-pentanone (MIBK)	250	240		ug/Kg		96	65 - 133	5	20
Acetone	250	245		ug/Kg		98	61 - 137	8	20
Benzene	50.0	52.1		ug/Kg		104	79 - 127	1	20
Bromodichloromethane	50.0	52.0		ug/Kg		104	80 - 122	2	20
Bromoform	50.0	49.4		ug/Kg		99	68 - 126	4	20
Bromomethane	50.0	67.2		ug/Kg		134	37 - 149	3	20
Carbon disulfide	50.0	47.7		ug/Kg		95	64 - 131	2	20
Carbon tetrachloride	50.0	46.3		ug/Kg		93	75 - 135	4	20
Chlorobenzene	50.0	50.9		ug/Kg		102	76 - 124	2	20
Chloroethane	50.0	63.4		ug/Kg		127	69 - 135	3	20
Chloroform	50.0	50.2		ug/Kg		100	80 - 120	1	20
Chloromethane	50.0	44.2		ug/Kg		88	63 - 127	1	20
cis-1,2-Dichloroethene	50.0	51.9		ug/Kg		104	81 - 120	1	20
cis-1,3-Dichloropropene	50.0	53.0		ug/Kg		106	80 - 120	0	20
Cyclohexane	50.0	46.6		ug/Kg		93	65 - 120	1	20
Dibromochloromethane	50.0	51.4		ug/Kg		103	76 - 125	2	20
Dichlorodifluoromethane	50.0	45.8		ug/Kg		92	57 - 142	2	20
Ethylbenzene	50.0	50.0		ug/Kg		100	80 - 120	2	20
Isopropylbenzene	50.0	50.4		ug/Kg		101	72 - 120	1	20
m,p-Xylene	50.0	50.3		ug/Kg		101	70 - 130	2	20
Methyl acetate	100	96.7		ug/Kg		97	55 - 136	5	20
Methyl tert-butyl ether	50.0	51.4		ug/Kg		103	63 - 125	1	20
Methylcyclohexane	50.0	48.1		ug/Kg		96	60 - 140	0	20
Methylene Chloride	50.0	48.1		ug/Kg		96	61 - 127	1	20
n-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 120	0	20
N-Propylbenzene	50.0	50.5		ug/Kg		101	70 - 130	1	20
o-Xylene	50.0	50.1		ug/Kg		100	70 - 130	1	20
sec-Butylbenzene	50.0	49.4		ug/Kg		99	74 - 120	1	20
Styrene	50.0	52.2		ug/Kg		104	80 - 120	1	20
tert-Butylbenzene	50.0	50.0		ug/Kg		100	73 - 120	0	20
Tetrachloroethene	50.0	48.2		ug/Kg		96	74 - 122	2	20
Toluene	50.0	50.4		ug/Kg		101	74 - 128	2	20
trans-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	78 - 126	2	20
trans-1,3-Dichloropropene	50.0	51.1		ug/Kg		102	73 - 123	2	20

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

Lab Sample ID: LCSD 480-435617/2-A
Matrix: Solid
Analysis Batch: 435653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 435617

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene			50.0	50.4		ug/Kg		101	77 - 129	1	20
Trichlorofluoromethane			50.0	45.4		ug/Kg		91	65 - 146	2	20
Vinyl chloride			50.0	43.7		ug/Kg		87	61 - 133	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*
Dibromofluoromethane (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*99*		*71 - 125*

QC Association Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

GC/MS VOA

Prep Batch: 435617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-142077-1	UST-1 SW-3 (3) 11.0'	Total/NA	Solid	5035A_L	
MB 480-435617/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-435617/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-435617/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 435653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-142077-1	UST-1 SW-3 (3) 11.0'	Total/NA	Solid	8260C	435617
MB 480-435617/3-A	Method Blank	Total/NA	Solid	8260C	435617
LCS 480-435617/1-A	Lab Control Sample	Total/NA	Solid	8260C	435617
LCSD 480-435617/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	435617

General Chemistry

Analysis Batch: 435615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-142077-1	UST-1 SW-3 (3) 11.0'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

Client Sample ID: UST-1 SW-3 (3) 11.0' — **Lab Sample ID: 480-142077-1**
Date Collected: 09/20/18 14:00 — **Matrix: Solid**
Date Received: 09/20/18 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	435615	09/21/18 14:07	CDC	TAL BUF

Client Sample ID: UST-1 SW-3 (3) 11.0' — **Lab Sample ID: 480-142077-1**
Date Collected: 09/20/18 14:00 — **Matrix: Solid**
Date Received: 09/20/18 15:00 — **Percent Solids: 87.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			435617	09/21/18 14:10	CDC	TAL BUF
Total/NA	Analysis	8260C		1	435653	09/22/18 00:58	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
TestAmerica Job ID: 480-142077-1
Project/Site: Benchmark - 1585 Hertel Ave site

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-142077-1	UST-1 SW-3 (3) 11.0'	Solid	09/20/18 14:00	09/20/18 15:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 242634

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Boron	Site Contact: T. Behrendt	Date: 9/20/18	COC No:
Company Name: Benchmark Eng	Tel/Fax: 716-856-0635	Lab Contact: B. Fischer	Carrier:	____ of ____ COCs
Address: 2558 Hamburg Turnpike Ste 300	Analysis Turnaround Time			Sampler:
City/State/Zip: Lackawanna NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 818-8358	TAT if different from Below ____			Walk-in Client:
Fax: (716) 856-0583	☐ 2 weeks			Lab Sampling:
Project Name: 1585 Hertel Ave	☐ 1 week			
Site: [redacted] 6437-017-001	☒ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Total Solids	1,4-TCP-5L VOC 8260	Sample Specific Notes:
UST-1 SW-3R(3) 11.0'	9/20/18	1400	Grab	Soil	4			1	3	

480-142077 COC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: CAT B

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.6 Corr'd: ____ | Therm ID No.: #4

	Company	Date/Time		Company	Date/Time
Relinquished by:	Benchm	9/20/18	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received in Laboratory by:	Company: TA	Date/Time: 09/24/18 1540

9/25/2018

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-142077-1

Login Number: 142077

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kinecki, Kenneth P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time (Excluding tests with immediate HTs)..		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		

APPENDIX F

DATA USABILITY SUMMARY REPORT (DUSR)

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

August 11, 2018

Christopher Boron
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of the 1585 Hertel Avenue Site Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Alpha SDG Nos. L1822714, L1822718, L1823203, and L1825323

Dear Mr. Boron:

Review has been completed for the data packages generated by Alpha Analytical that pertain to samples collected between 06/14/18 and 07/18/18 at the 1585 Hertel Avenue site. Nine soil samples, a soil field duplicate, four aqueous samples, and an aqueous field duplicate were processed for TCL and NYSDEC 6 NYCRR Part 375 CP-51 volatiles, TCL semivolatiles, TCL pesticides, Aroclor PCBs, TCL herbicides, and TAL metals. Eleven soil samples were processed for TCL and CP-51 volatiles, TCL semivolatiles, and TAL metals. Two soil samples were processed for TCL semivolatiles, TCL pesticides, Aroclor PCBs, TCL herbicides, and TAL metals. All of the aqueous samples and field duplicate were also processed for 1,4-dioxane and two of the aqueous samples and the field duplicate were also processed for per- and polyfluoroalkyl substances (PFAS). Three of the soil samples and the aqueous samples were also processed for Tentatively Identified Compounds (TICs). Analytical methodologies utilized are USEPA SW846 and a modified USEPA method 537.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method/ Preparation/Trip Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Blind Field Duplicate Correlations
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* ICP Serial Dilution Evaluation
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, results for the samples are usable either as reported or with minor qualification or edit, with the exception of the results for 1,4-dioxane determined from the volatile analyses, which are rejected due to poor instrument response that is inherent in the methodology.

Data completeness, representativeness, accuracy, precision, reproducibility, sensitivity, and comparability are acceptable.

The laboratory modifications to the USEPA method 537 are significant, including acceptance ranges, consistent in many respects to the advances in the available monitoring compounds. Validation actions are based on the laboratory procedures, in consideration that the laboratory undergoes NYS DOH certifications and NYS SOP review.

Validation qualifier definitions and the client sample identification summaries are attached to this text. Also included in this report are laboratory EQuIS EDDs with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

Although TCL volatiles were requested for samples reported in SDG 480-92594, TCL and CP-51 analytes were reported.

Scratchouts and line-outs on the custody forms should have been dated and initialed.

Container types should have been noted on the custody forms.

Blind Field Duplicates

The blind field duplicate evaluations of SB-13 8-12 ft and MW-2 show correlations within validation guidelines, with the exception of that for PFBA in MW-2, the results for which are qualified as estimated in that parent sample and its duplicate.

TCL and CP-51 Volatile Analyses by EPA 8260C

The following detected results are considered contamination and edited to reflect non-detection due to presence in the associated method blanks: acetone in the samples reported in SDG L1825323.

The low level matrix spike/duplicate evaluation of SB-14 12-16' show numerous outlying recoveries, thirteen of which are outliers in both matrix spikes. They have been qualified as estimated in the parent sample. The laboratory reported all duplicate correlations as elevated. However, they performed the calculation using concentrations; this is not a valid means of determination due to the variance in sample quantities. The use of recovery percentages (which are adjusted for the sample quantity variance) in the duplicate evaluation shows acceptable correlations.

Aqueous matrix spikes of MW-2 show acceptable recoveries and correlations.

Samples were processed at low and medium levels, using the same calibrations and associated instrument QC samples. Medium level matrix spikes were not processed.

The results for 1,4-dioxane in the samples are rejected and not usable due to low calibration standard response (RRF<0.01) inherent in the methodology used by the laboratory. Other calibration standards showed acceptable responses, with the exception of that for bromomethane (32%D) in the calibration associated with the aqueous samples. The results for that analyte in those samples have been qualified as estimated, with a low bias.

Surrogate and internal standard responses are acceptable.

Encore sample weights for some samples were low (as low as 3.1 g, rather than the desired 5 g quantity), resulting in proportionally elevated reporting limits.

TCL Semivolatile Analyses by EPA8270D

Although SB-13 0-1' exhibits very low recovery of one of the surrogate standards, the analysis was performed at dilution, affection the accuracy evaluation.

The matrix spikes of SB-14 12-16' and MW-2 show acceptable recoveries and correlations, with the exception of that 3,3'-dichlorobenzidine failed to recover in the spikes of MW-2, and 4-chloroaniline showed low recoveries in those spikes. The result for the former has been rejected in MW-2, and the result for the latter has been qualified as estimated in value.

The results for bis(2-chloroisopropyl)ether in SS-2 and SS-3 are qualified as estimated due to low associated LCS recoveries (36% and 38%).

Calibration standards show responses within validation action levels, with the exception of the following, results for which are qualified as estimated in the indicated associated samples:

- pentachlorophenol (26%D) in the samples reported in SDG L1822718
- bis(2-chloroisopropyl)ether in SDG L1825323

Surrogate and internal standard responses are compliant. Instrument tunes meet fragmentation requirements.

The Tentatively Identified Compounds (TICs) that are aldol condensates are extraction artifacts and have been removed from consideration as sample components.

TCL Pesticide, TCL Herbicides, and Aroclor PCBs by EPA 8081B, 8151A and 8082A

All of the b-BHC detections reported in the samples reported in SDG L1825323 are edited to reflect non-detection due to significantly elevated dual column correlations.

Due to elevated dual column correlation, the result for Aroclor 1254 in MW-4 4-4.5' has been qualified as estimated in value.

The detection of Aroclor 1254 in SS-2 is qualified as estimated due to elevated dual column quantitation correlation.

Some of the samples (particularly those with Aroclors or elevated concentrations of PAHs) exhibit numerous responses in the pesticide chromatogram. The integration reports have been edited by the analyst, and therefore, independent evaluation to confirm reported non-detections is not possible.

The pesticide, herbicide, and Aroclor 1016/1260 matrix spikes of SB-14 12-16' and MW-2 show acceptable recoveries and duplicate correlations.

Holding times were met, surrogate standards are within validation guidelines, and blanks show no contamination affecting reported results. Calibration standards are compliant.

The herbicide analysis of SS-3 was performed at twenty-fold dilution, noted in the case narrative as being due to elevated concentrations of non-target analytes. The chromatogram of the dilution does not show atypical responses, indicating that the dilution could likely have been at a lesser level. Reporting limits are elevated proportionally to the dilution factor, and may be unnecessarily high.

Some of the internal standard recoveries are elevated, associated sample results are unaffected.

PFAS by Modified EPA Method 537

PFAS compounds are at times identified by their common acronyms in this report. The data package report forms reference both the technical names and the acronyms.

The result for FOSA in the Field Blank is rejected due to lack of recovery of the associated isotopic dilution surrogate standard. The following other qualifications as estimated are made due to low recoveries in associated isotopic dilution surrogate standards:

- FOSA in MW-1, MW-2, and BLIND DUP
- NEtFOAA in BLIND DUP
- NMEFOSAA in Field Blank

Due to responses in the associated blanks, the following detections are considered external contamination and edited to reflect non-detection:

- PFPeA in MW-1
- PFHpA in MW-2 and BLIND DUP
- 6:2FTS in MW-2 and BLIND DUP

Matrix spikes performed on MW-2 show recoveries/correlations within laboratory guidelines.

Due to outlying calibration standard responses, the results for NEtFOSA (43%) and PFDS (65%) in the samples and field blank are qualified as estimated, with a low bias.

TAL Metals/CN Analyses by EPA 6010C, 6020A, 7470, 7471B, and 9012B

The detected results for thallium in samples reported in SDG L1822714 and for arsenic in SB-14 0-0.5' are considered external contamination due to presence in the associated blank, and have been edited to reflect non-detection.

The detections of antimony in SS-2 and SS-3 are qualified as estimated, with a high bias, due to elevated associated low level standard (CRI) recoveries (136%). The results for silver in the samples reported in SDG L1822718, and in SS-2 and SS-3 are qualified as estimated, with a low bias, due to the associated CRI recoveries (21% to 48%).

Matrix spikes/duplicates were performed on SB-14 12'-16' and MW-2, and show recoveries and correlations within validation guidelines, with the following exception, the result for which are qualified as estimated in the indicated parent sample:

Parent Sample	Element	Outlying % Recoveries
SB-14 0-0.5'	Selenium	65,74
	Thallium	69,72

The ICP serial dilution evaluations of MW-2 and SB-14 12-16' show acceptable correlations, with the following exceptions. The results for those elements in the indicated parent sample have been qualified as estimated, with a possible low bias, due to matrix interferences:

Parent Sample	Element	%Difference
MW-2	Magnesium	18
SB-14 12-16'	Aluminum	29
	Barium	25
	Magnesium	28
	Manganese	22

Instrument performance is compliant.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Attachments: Validation Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample Identifications

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822714
Report Date: 06/27/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1822714-01	SB-9 0-3'	SOIL	1585 HERTEL AVE.	06/14/18 12:20	06/15/18
L1822714-02	SB-9 4-8'	SOIL	1585 HERTEL AVE.	06/14/18 12:40	06/15/18
L1822714-03	SB-10 0-0.5'	SOIL	1585 HERTEL AVE.	06/14/18 13:30	06/15/18
L1822714-04	SB-10 12-16'	SOIL	1585 HERTEL AVE.	06/14/18 13:40	06/15/18
L1822714-05	SB-11 0-0.5'	SOIL	1585 HERTEL AVE.	06/14/18 14:40	06/15/18
L1822714-06	SB-11 16-20'	SOIL	1585 HERTEL AVE.	06/14/18 15:00	06/15/18
L1822714-07	SB-12 0-4'	SOIL	1585 HERTEL AVE.	06/14/18 09:30	06/15/18
L1822714-08	SB-12 4-8'	SOIL	1585 HERTEL AVE.	06/14/18 09:40	06/15/18
L1822714-09	SB-13 0-1'	SOIL	1585 HERTEL AVE.	06/14/18 10:30	06/15/18
L1822714-10	SB-13 8-12'	SOIL	1585 HERTEL AVE.	06/14/18 10:40	06/15/18
L1822714-11	SB-14 0-0.5'	SOIL	1585 HERTEL AVE.	06/14/18 11:30	06/15/18
L1822714-12	SB-14 12-16'	SOIL	1585 HERTEL AVE.	06/14/18 11:40	06/15/18
L1822714-13	BLIND DUP	SOIL	1585 HERTEL AVE.	06/14/18 12:00	06/15/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001

Lab Number: L1822718
Report Date: 06/22/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1822718-01	MW-1 0-2'	SOIL	1585 HERTEL AVE.	06/15/18 08:10	06/15/18
L1822718-02	MW-1 8-12'	SOIL	1585 HERTEL AVE.	06/15/18 08:30	06/15/18
L1822718-03	MW-2 0-2'	SOIL	1585 HERTEL AVE.	06/15/18 09:00	06/15/18
L1822718-04	MW-2 12-16'	SOIL	1585 HERTEL AVE.	06/15/18 09:22	06/15/18
L1822718-05	MW-3 0-2'	SOIL	1585 HERTEL AVE.	06/15/18 10:00	06/15/18
L1822718-06	MW-3 4-8'	SOIL	1585 HERTEL AVE.	06/15/18 10:30	06/15/18
L1822718-07	MW-4 4-4.5'	SOIL	1585 HERTEL AVE.	06/15/18 11:30	06/15/18
L1822718-08	MW-4 8-10'	SOIL	1585 HERTEL AVE.	06/15/18 12:00	06/15/18

Project Name: 1585 HERTEL AVE. SITE
Project Number: 0437-017-001-003

Lab Number: L1823203
Report Date: 06/28/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1823203-01	SS-2	SOIL	BUFFALO, NY	06/19/18 12:10	06/20/18
L1823203-02	SS-3	SOIL	BUFFALO, NY	06/19/18 12:20	06/20/18

Project Name: 1585 HERTEL GWM
Project Number: B0437-017-001-005

Lab Number: L1825323
Report Date: 07/27/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1825323-01	MW-1	WATER	BUFFALO, NY	07/02/18 12:43	07/03/18
L1825323-02	MW-2	WATER	BUFFALO, NY	07/02/18 10:39	07/03/18
L1825323-03	BLIND DUP	WATER	BUFFALO, NY	07/02/18 12:00	07/03/18
L1825323-04	MW-3	WATER	BUFFALO, NY	07/02/18 09:50	07/03/18
L1825323-05	MW-4	WATER	BUFFALO, NY	07/02/18 13:15	07/03/18
L1825323-06	FIELD BLANK	WATER	BUFFALO, NY	07/02/18 09:30	07/03/18
L1825323-07	MW-1	WATER	BUFFALO, NY	07/18/18 10:46	07/19/18
L1825323-08	MW-2	WATER	BUFFALO, NY	07/18/18 07:48	07/19/18
L1825323-09	BLIND DUP	WATER	BUFFALO, NY	07/18/18 12:00	07/19/18
L1825323-10	MW-3	WATER	BUFFALO, NY	07/18/18 10:00	07/19/18
L1825323-11	MW-4	WATER	BUFFALO, NY	07/18/18 11:16	07/19/18
L1825323-12	TRIP BLANK	WATER	BUFFALO, NY	07/18/18 00:00	07/19/18

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

October 17, 2018

Christopher Boron
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of the 1585 Hertel Avenue Site Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Alpha SDG Nos. L1822303, L1832544, L1832711, L1832892, L1833416, L1833627, L1833792, L1833991, L1834193, L1836955, L1837169, and 480-142077

Dear Mr. Boron:

Review has been completed for the data packages generated by Alpha Analytical that pertain to soil samples collected between 08/16/18 and 09/20/18 at the 1585 Hertel Avenue site. Forty seven soil samples and two field duplicates were processed for TCL and NYSDEC 6 NYCRR Part 375 CP-51 volatiles and Part 375 semivolatiles. Twenty three samples and two field duplicates were processed for TCL and CP-51 volatiles, Part 375 semivolatiles, and TAL metals. Thirteen samples a field duplicate were processed for TCL and CP-51 volatiles and one sample was processed for TAL metals. Some of the samples were also processed for Tentatively Identified Compounds (TICs). Analytical methodologies utilized are USEPA SW846 and a modified USEPA method 537.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method/ Preparation/Trip Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Blind Field Duplicate Correlations
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* ICP Serial Dilution Evaluation
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, results for the samples are usable either as reported or with minor qualification or edit, with the exception of the results for 1,4-dioxane determined from the volatile analyses, which are rejected due to poor instrument response that is inherent in the methodology.

Data completeness, representativeness, reproducibility, sensitivity, and comparability are acceptable. There are apparent matrix effects on the accuracy/recovery of volatile analytes, shown in all matrix spike evaluations. There were precision outliers in the field duplicate evaluations for acetone in two locations and for semivolatiles in one location.

Validation qualifier definitions and the client sample identification summaries are attached to this text. Also included in this report are laboratory EQuIS EDDs with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

Two discrepancies in collection time and/or sample IDs were resolved at sample receipt.

Writeovers on the custody forms should have been dated and initialed line outs and edits.

The time was omitted from some of the initial relinquish entries.

Blind Field Duplicates

The blind field duplicate evaluations of PUMP ISLAND B-2(7.5), MA-SW-6 2.5', USR-3 SW-2 7.0, UST-4 MW-1 SW-2(8-12), and HLA-SW-1(R)8.0' show correlations within validation guidelines, with the following exceptions, results for which are qualified as estimated in that parent sample and its duplicate:

- Methyl-t-butyl ether, acetone, and all except seven of the SVOCs.
- Calcium and lead in MA-SW-6 2.5'
- Barium and lead in UST-4 MW-1 SW-2(8-12)
- Acetone in HLA-SW-(R)8.0' (this is a significant variance, of an order of magnitude)

The variances for the semivolatiles in PUMP ISLAND B-2(7.5) were also particularly significant, with the blind duplicate showing no detection and the parent sample sample showing detections up to ten times the reporting limit.

TCL and CP-51 Volatile Analyses by EPA 8260C

The following detected results are considered contamination and edited to reflect non-detection due to presence in the associated method blanks:

- Bromomethane in samples reported in SDG L1833416
- Methylene chloride in ten of the samples reported in SDG L1833991
- Methyl-t-butyl ether in certain of the samples reported in SDG L1834193

Due to an elevated surrogate standard recovery in the sample, the detected result for acetone in UST-1 SW-3R(1) 8.5' is qualified as estimated, with a high bias; the bias is not expected to be great.

The matrix spike/duplicate evaluations of MA SW-7, UST-3 SW-17.5, UST-4/MW-4 SW-1(8-12), and UST-4/MW-1(0-2)SW-1R each show numerous outlying recoveries, many of which are low in both matrix spikes, or are low in one of the matrix spikes, and also show an elevated duplicate correlation. The affected analytes in each parent sample have been qualified as estimated.

Due to low recoveries (59% and 39%) in the associated LCSs, the results for vinyl chloride in the samples reported in L1832711 are qualified as estimated, with a low bias.

Samples were processed at low and medium levels, using the same calibrations and associated instrument QC samples.

The results for 1,4-dioxane in the samples are rejected and not usable due to low calibration standard response (RRF<0.01) inherent in the methodology used by the laboratory. Other calibration standards showed acceptable responses, with the following exceptions, the results for which have been qualified as estimated in the indicated associated samples:

- bromomethane, chloroethane, and vinyl chloride (23%D to 42%D) in the samples reported in L1832892
- carbon tetrachloride, benzene, toluene, methyl cyclohexane, and bromoform in PUMP ISLAND B-1R (7.5) and PUMP ISLAND SW-5(4.5)

TCL Semivolatile Analyses by EPA8270D

The matrix spike/duplicate evaluations of MA SW-7, UST-3 SW-17.5, and UST-4/MW-4 SW-1(8-12) show acceptable accuracy and precision.

Surrogate and internal standard responses are compliant. Instrument tunes meet fragmentation requirements. Calibration standards show responses within validation action levels. Blanks show no contamination.

TAL Metals Analyses by EPA 6010C and 7471B

The detected results for mercury in samples reported in SDG L1833792 are considered external contamination due to presence in the associated blank, and have been edited to reflect non-detection.

Matrix spikes/duplicates were performed for TAL analytes on MA-SW-3 2.5', MA SW-7, and UST-4/MW-4 SW-1(8-12), and mercury on UST-4/MW-1 SW-3(R)(0-2) show recoveries and correlations within validation guidelines, with the following exception, the result for which are qualified as estimated in the indicated parent sample:

Parent Sample	Element	Outlying % Recoveries
MA-SW-3 2.5'	Calcium	67
	Thallium	72
UST-4/MW-4 SW-1(8-12)	Cobalt	73,74
	Lead	74,74
	Thallium	73,73

The ICP serial dilution evaluations of MA-SW-3 2.5', MA SW-7, and UST-4/MW-4 SW-1(8-12) show acceptable correlations, with the following exceptions. The results for those elements in the indicated parent sample have been qualified as estimated, with a possible low bias, due to matrix interferences:

Parent Sample	Element	%Difference
MA-SW-3 2.5'	Iron	18
MA SW-7	Iron	18
UST-4/MW-4 SW-1(8-12)	Iron	18

Instrument performance is compliant. Blanks show no detections above the reporting limits.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Attachments: Validation Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample Identifications

Project Name: 1585 HERTEL IRM
Project Number: 0437-017-001-006-005

Lab Number: L1832303
Report Date: 08/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832303-01	UST-1 SW-1 10-11FT	SOIL	BUFFALO, NY	08/16/18 15:25	08/16/18
L1832303-02	UST-1 SW-2 10-11FT	SOIL	BUFFALO, NY	08/16/18 15:41	08/16/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-006-005

Lab Number: L1832544
Report Date: 08/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832544-01	UST-1 SW-3 8.5'	SOIL	BUFFALO, NY	08/17/18 14:00	08/17/18
L1832544-02	UST-1 B-1 13.5'	SOIL	BUFFALO, NY	08/17/18 14:42	08/17/18
L1832544-03	UST-1 B-2 13.5'	SOIL	BUFFALO, NY	08/17/18 15:03	08/17/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1832711
Report Date: 08/23/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832711-01	PUMP ISLAND SW-1 4.5'	SOIL	BUFFALO, NY	08/20/18 15:15	08/20/18
L1832711-02	PUMP ISLAND SW-2 5.5'	SOIL	BUFFALO, NY	08/20/18 15:33	08/20/18
L1832711-03	PUMP ISLAND SW-3 4.5'	SOIL	BUFFALO, NY	08/20/18 15:45	08/20/18
L1832711-04	PUMP ISLAND SW-4 5.0'	SOIL	BUFFALO, NY	08/20/18 15:56	08/20/18
L1832711-05	PUMP ISLAND B-1 7.5'	SOIL	BUFFALO, NY	08/20/18 14:10	08/20/18

Project Name: 1585 HERTEL
Project Number: 0437-017-001-006-005

Lab Number: L1832892
Report Date: 08/24/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832892-01	UST-2 SW-1 3.0'	SOIL	BUFFALO, NY	08/21/18 15:55	08/21/18
L1832892-02	UST-2 B-1 4.5'	SOIL	BUFFALO, NY	08/21/18 16:07	08/21/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833416
Report Date: 08/28/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833416-01	MA-SW-1 (2.0)	SOIL	BUFFALO, NY	08/23/18 14:28	08/23/18
L1833416-02	MA-SW-2 (2.5)	SOIL	BUFFALO, NY	08/23/18 14:47	08/23/18
L1833416-03	PUMP ISLAND B-1R (7.5)	SOIL	BUFFALO, NY	08/23/18 15:34	08/23/18
L1833416-04	PUMP ISLAND B-2 (7.5)	SOIL	BUFFALO, NY	08/23/18 16:01	08/23/18
L1833416-05	BLIND DUP #1	SOIL	BUFFALO, NY	08/23/18 12:00	08/23/18
L1833416-06	PUMP ISLAND SW-5 (4.5)	SOIL	BUFFALO, NY	08/23/18 15:33	08/23/18
L1833416-07	PUMP ISLAND SW-6 (8.5)	SOIL	BUFFALO, NY	08/23/18 15:47	08/23/18
L1833416-08	UST-1 SW-3R (10-11')	SOIL	BUFFALO, NY	08/23/18 08:50	08/23/18
L1833416-09	UST-1 SW-4 (10-11')	SOIL	BUFFALO, NY	08/23/18 09:11	08/23/18
L1833416-10	UST-1 SW-5 (10-11')	SOIL	BUFFALO, NY	08/23/18 09:41	08/23/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833627
Report Date: 08/29/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833627-01	HL-1 B-1 11'	SOIL	BUFFALO	08/24/18 14:41	08/24/18
L1833627-02	MA-SW-3 2.5'	SOIL	BUFFALO	08/24/18 08:36	08/24/18
L1833627-03	PUMP ISLAND SW-2R 5.5'	SOIL	BUFFALO	08/24/18 15:00	08/24/18
L1833627-04	PUMP ISLAND SW-3R 5.0'	SOIL	BUFFALO	08/24/18 15:06	08/24/18
L1833627-05	PUMP ISLAND SW-7 8.0'	SOIL	BUFFALO	08/24/18 12:00	08/24/18
L1833627-06	PUMP ISLAND SW-8 8.0'	SOIL	BUFFALO	08/24/18 12:07	08/24/18
L1833627-07	PUMP ISLAND SW-9 5.5'	SOIL	BUFFALO	08/24/18 12:15	08/24/18
L1833627-08	PUMP ISLAND SW-10 5.0'	SOIL	BUFFALO	08/24/18 15:20	08/24/18
L1833627-09	UST-1 SW-6 (10-11')	SOIL	BUFFALO	08/24/18 08:30	08/24/18
L1833627-10	PUMP ISLAND B-3 8.0	SOIL	BUFFALO	08/24/18 15:27	08/24/18
L1833627-11	UST-2 SW-2 3.5'	SOIL	BUFFALO	08/24/18 08:10	08/24/18
L1833627-12	UST-2 SW-3 3.5'	SOIL	BUFFALO	08/24/18 08:19	08/24/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833792
Report Date: 08/30/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833792-01	MA SW-4 2.5'	SOIL	BUFFALO, NY	08/27/18 10:05	08/27/18
L1833792-02	MA SW-5 2.5'	SOIL	BUFFALO, NY	08/27/18 10:50	08/27/18
L1833792-03	MA SW-6 2.5'	SOIL	BUFFALO, NY	08/27/18 10:46	08/27/18
L1833792-04	BLIND DUP #2	SOIL	BUFFALO, NY	08/27/18 12:00	08/27/18
L1833792-05	MA SW-7	SOIL	BUFFALO, NY	08/27/18 10:50	08/27/18
L1833792-06	MA B-1 3.0'	SOIL	BUFFALO, NY	08/27/18 11:34	08/27/18
L1833792-07	MA B-2 3.0'	SOIL	BUFFALO, NY	08/27/18 11:39	08/27/18
L1833792-08	MA B-3 4.0'	SOIL	BUFFALO, NY	08/27/18 11:44	08/27/18
L1833792-09	HLA-SW-1 8.0'	SOIL	BUFFALO, NY	08/27/18 15:20	08/27/18
L1833792-10	HLA-SW-2 8.0'	SOIL	BUFFALO, NY	08/27/18 15:24	08/27/18
L1833792-11	HLA-SW-3 8.0'	SOIL	BUFFALO, NY	08/27/18 15:29	08/27/18
L1833792-12	HLA-SW-4 8.0'	SOIL	BUFFALO, NY	08/27/18 15:34	08/27/18
L1833792-13	UST-3 SW-17.5	SOIL	BUFFALO, NY	08/27/18 14:29	08/27/18
L1833792-14	UST-3 SW-2 7.0	SOIL	BUFFALO, NY	08/27/18 14:14	08/27/18
L1833792-15	BLIND DUP #3	SOIL	BUFFALO, NY	08/27/18 16:00	08/27/18
L1833792-16	UST-3 SW-3 7.0	SOIL	BUFFALO, NY	08/27/18 14:24	08/27/18
L1833792-17	UST-3 SW-4 7.0	SOIL	BUFFALO, NY	08/27/18 14:08	08/27/18
L1833792-18	UST-3 B-1 9.0'	SOIL	BUFFALO, NY	08/27/18 00:00	08/27/18

Project Name: 1585 HERTEL AVE.
Project Number: 0437-017-001-005-002

Lab Number: L1833991
Report Date: 08/31/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833991-01	MW-4 B-1 10'	SOIL	BUFFALO, NY	08/28/18 09:24	08/28/18
L1833991-02	MW-4 SW-1 (8-10)	SOIL	BUFFALO, NY	08/28/18 09:34	08/28/18
L1833991-03	MW-4 SW-2 (8-10)	SOIL	BUFFALO, NY	08/28/18 11:48	08/28/18
L1833991-04	MW-4 SW-3 (8-10)	SOIL	BUFFALO, NY	08/28/18 09:22	08/28/18
L1833991-05	MW-4 SW-4 (8-10)	SOIL	BUFFALO, NY	08/28/18 11:34	08/28/18
L1833991-06	FA-SW-1 3.5'	SOIL	BUFFALO, NY	08/28/18 14:34	08/28/18
L1833991-07	FA-SW-2 4.5'	SOIL	BUFFALO, NY	08/28/18 14:21	08/28/18
L1833991-08	FA-B-1 7.0'	SOIL	BUFFALO, NY	08/28/18 14:44	08/28/18
L1833991-09	UST-4/MW-1 SW-1 (0-2)	SOIL	BUFFALO, NY	08/28/18 10:30	08/28/18
L1833991-10	UST-4/MW-1 SW-2 (0-2)	SOIL	BUFFALO, NY	08/28/18 10:35	08/28/18
L1833991-11	UST-4/MW-4 SW-3 (0-2)	SOIL	BUFFALO, NY	08/28/18 10:48	08/28/18
L1833991-12	UST-4/MW-4 SW-1 (4-7)	SOIL	BUFFALO, NY	08/28/18 11:57	08/28/18
L1833991-13	UST-4/MW-4 SW-2 (4-7)	SOIL	BUFFALO, NY	08/28/18 12:02	08/28/18
L1833991-14	UST-4/MW-4 SW-3 (4-7)	SOIL	BUFFALO, NY	08/28/18 12:06	08/28/18
L1833991-15	UST-4/MW-4 SW-4 (4-7)	SOIL	BUFFALO, NY	08/28/18 12:08	08/28/18
L1833991-16	UST-4/MW-4 B-1 (8-12)	SOIL	BUFFALO, NY	08/28/18 15:25	08/28/18
L1833991-17	UST-4/MW-4 SW-1 (8-12)	SOIL	BUFFALO, NY	08/28/18 14:59	08/28/18
L1833991-18	UST-4/MW-1 SW-2 (8-12)	SOIL	BUFFALO, NY	08/28/18 15:03	08/28/18
L1833991-19	BLIND DUP #4	SOIL	BUFFALO, NY	08/28/18 16:00	08/28/18
L1833991-20	UST-4/MW-4 SW-3 (8-12)	SOIL	BUFFALO, NY	08/28/18 15:10	08/28/18
L1833991-21	UST-4/MW-1 SW-4 (8-12)	SOIL	BUFFALO, NY	08/28/18 15:18	08/28/18

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1834193
Report Date: 09/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1834193-01	PUMP ISLAND SW-11 4.0'	SOIL	BUFFALO, NY	08/29/18 13:06	08/29/18
L1834193-02	PUMP ISLAND SW-12 5.0'	SOIL	BUFFALO, NY	08/29/18 13:14	08/29/18
L1834193-03	PUMP ISLAND SW-13 6.0'	SOIL	BUFFALO, NY	08/29/18 13:22	08/29/18
L1834193-04	PUMP ISLAND B-4 10.0'	SOIL	BUFFALO, NY	08/29/18 13:02	08/29/18
L1834193-05	PUMP ISLAND B-1R (1) 8.5'	SOIL	BUFFALO, NY	08/29/18 10:28	08/29/18
L1834193-06	UST-1 SW-3 R(1) 8.5'	SOIL	BUFFALO, NY	08/29/18 10:20	08/29/18

Project Name: 1585 HERTEL AVE.
Project Number: 1585 HERTEL AVE.

Lab Number: L1836955
Report Date: 09/20/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1836955-01	PUMP ISLAND B-1 R (2) 10.5'	SOIL	BUFFALO, NY	09/17/18 10:05	09/17/18
L1836955-02	PUMP ISLAND B-3 R 10.0'	SOIL	BUFFALO, NY	09/17/18 10:45	09/17/18
L1836955-03	HLA-SW-1 (R) 8.0'	SOIL	BUFFALO, NY	09/17/18 11:10	09/17/18
L1836955-04	BLIND DUP #5	SOIL	BUFFALO, NY	09/17/18 12:00	09/17/18
L1836955-05	UST-1 SW-3 R (2) 11.0	SOIL	BUFFALO, NY	09/17/18 10:20	09/17/18
L1836955-06	UST-3 B-1R 10.0	SOIL	BUFFALO, NY	09/17/18 10:45	09/17/18
L1836955-07	UST-4/MW-1 (0-2) SW-1 R	SOIL	BUFFALO, NY	09/17/18 12:30	09/17/18

Project Name: 1585 HERTEL
Project Number: 0437-017-001-002-006

Lab Number: L1837169
Report Date: 09/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1837169-01	PUMP ISLAND SW-11 R 5.0'	SOIL	BUFFALO	09/18/18 10:20	09/18/18
L1837169-02	UST-4/MW-1 SW-3R (0-2)	SOIL	BUFFALO	09/18/18 10:30	09/18/18

Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-142077-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-142077-1	UST-1 SW-3 (3) 11.0'	Solid	09/20/18 14:00	09/20/18 15:00

APPENDIX G

ACM SURVEY & CITY OF BUFFALO DEMOLITION PERMIT

environmental
consulting and review

Pre-Demolition

Asbestos Sampling Report

Location:

1585 HERTEL AVENUE
Buffalo, NY 14216

19 April 2018

Prepared For:

Property Owner
1585 Hertel Avenue
Buffalo, NY 14216

01 May 2018

PO Box 561 Buffalo, NY 14213
716.341.8601 (ph) 716.408.9567 (fax)
www.56services.com

Asbestos Sampling - 1585 Hertel Avenue

56 Services, Inc. was retained to perform asbestos sampling for pre-demolition purposes at the above referenced address (vacant former gas station structure) on 19 April 2018. In total, thirteen (13) samples were collected for asbestos analysis from accessible areas within the scope of work (*AmeriSci Richmond Job# 1180421917)* and only represent conditions as of 19 April 2018.

> *Areas sampled/visually inspected as part of this sampling report include: vacant former gas station structure.*

The purpose of the sampling report was to determine the presence, location and condition of accessible ACM (assumed and asbestos containing materials) in accessible areas within the above referenced location. This sampling report includes the following:

- Identification of suspect materials within the described scope of work.
- Sampling and analysis of accessible suspect materials within the scope of work - materials to be impacted by renovation/demolition activities.
- Identification of the location, approximate quantity, friability and condition of confirmed and accessible asbestos containing and assumed asbestos containing materials (ACM).

Only accessible materials in areas to be impacted by renovation/demolition activities were sampled as part of this report. No other areas or materials, including any materials or debris from adjacent structures were sampled.

General Conditions of Inspection

Any reported quantities found in this report, if applicable, are field approximations of materials in readily accessible areas only and should be field verified prior to abatement. This report is not designed to serve as a specification for abatement. Please, find enclosed the laboratory analytical results and chain of custody documentation, if applicable. Drawings, if provided, are for reference purposes only and are not to scale.

Any materials found within the scope of work and not specifically accounted for with applicable sampling in this report should be presumed to contain asbestos and treated accordingly until sampled and proven otherwise, including but not limited to; below grade materials, sub-flooring under installed existing flooring and materials and insulation within walls and above fixed and suspended ceiling systems, if applicable.

Any included laboratory results, if applicable, are submitted pursuant to 56 Services current terms and conditions of sale, including the company's standard warrant and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.

This report is based on the condition and contents present at the above referenced location at the time of inspection. Any listed asbestos containing or presumed asbestos containing materials should only be handled and/or disturbed by licensed individuals, adhering to both state and federal regulations for abatement, if applicable.

Please note: In the event this structure is to be demolished, this report must be submitted to the local Asbestos Control Bureau for the Buffalo District prior to demolition. Please see page 5 of this report for fax number and contact information regarding submission.

Asbestos Containing Materials:

If applicable, Polarized Light Microscopy (PLM) and, where required, Transmission Electron Microscopy (TEM) revealed asbestos in the following analyzed samples. Also may included assumed Asbestos Containing Materials (ACM).

Asbestos Containing Material*	Location	Condition	Friability	Approximate Quantity SF	Approximate Quantity LF
None of the samples were found to be asbestos containing materials (ACM).					

***Notes on asbestos containing materials:**

Inaccessible materials. Any materials found within the scope of work and not specifically accounted for with sampling in this report should be presumed to contain asbestos and treated accordingly until sampled and proven otherwise. No materials or debris from adjacent structures were sampled as part of this report.

No additional suspect materials were noted.

Sampled Homogeneous Materials:

HAN	Homogeneous Material	Sample #	PLM/TEM Result	ACM
-	*Drywall*	*01*	*NAD*	*NA*
-	*Drywall*	*02*	*NAD*	*NA*
-	*Compound*	*03*	*Chrysotile 0.8*	*NA*
-	*Compound*	*04*	*Chrysotile 0.8*	*NA*
-	*Exhaust vent packing*	*05*	*NAD*	*NA*
-	*Exhaust vent packing*	*06*	*NAD*	*NA*
-	*Window caulk/glaze*	*07*	*NAD*	*NA*
-	*Window caulk/glaze*	*08*	*NAD*	*NA*
-	*Window caulk/glaze*	*09*	*TRACE*	*NA*
-	*Roofing*	*10*	*NAD*	*NA*
-	*Roofing*	*11*	*NAD*	*NA*
-	*Flashing*	*12*	*NAD*	*NA*
-	*Flashing*	*13*	*NAD*	*NA*

Notes:

HAN = Homogeneous Area Number
PLM = Analyzed by Polarized Light Microscopy
TEM = Analyzed by Transmission Electron Microscopy
ACM = >1.0% asbestos, assumed asbestos containing
FT = Floor tile
NAD = No asbestos detected
NA = Not applicable
PS = Positive stop
Ext = Exterior of structure, including roof
TRACE = Less than 1% asbestos - Non-ACM

Transmittal

In the event the aforementioned structure is to be demolished and as required by NYS, as per NYCRR 56, Subpart 56-5, prior to demolition:

> *"One (1) copy of this completed asbestos survey shall be sent by the owner or their agent to the local government entity charged with issuing a permit for such demolition, renovation, remodeling or repair work under applicable State or local laws."*
>
> *"The completed asbestos survey for controlled demolition (as per Subpart 56-11.5) or pre-demolition asbestos projects shall also be submitted to the appropriate Asbestos Control Bureau district office"*

BUFFALO DISTRICT: Asbestos Control Bureau District Office for Cattaraugus, Chautauqua, Erie, Genesee, Livingston, Monroe, Niagara, Ontario, Orleans, Wayne, Wyoming and Yates Counties:

NYS Dept. Of Labor:
65 Court St. - Rm. 405
Buffalo, NY 14202
(716)847-7126
(716) 847-7138 (fax)

Laboratory Analysis:
Paradigm Environmental Services
1815 Love Road
Grand Island, NY 14072
ELAP LAB ID: 11955

Laboratory Analysis:
AmeriSci Richmond
13635 Genito Road
Midlothian, VA 23112
ELAP LAB ID: 10984

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

56 Services, Inc.
P.O. Box 561
Buffalo, NY 14213

FILE NUMBER: 07-0281
LICENSE NUMBER: 29631
LICENSE CLASS: FULL
DATE OF ISSUE: 04/25/2018
EXPIRATION DATE: 04/30/2019

Duly Authorized Representative – Robert Barr:

Robert Barr
NYS DOL Asbestos Certificate
Number 93-19183 (10/18)

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Director
For the Commissioner of Labor

SH 432 (8/12)

Please Reply To:

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

FACSIMILE TELECOPY TRANSMISSION

To:	Robert Barr 56 Services, Inc	**From:**	C. David Mintz
		AmeriSci Job #:	118041917
Fax #:		**Subject:**	ELAP-PLM/TEM 24 hour Results
		Client Project:	18-04034; 1585 Hertel Ave (Report Amended 4/26/2018)
Email:	rob@56services.com,rbarr27@yahoo.com		

Date: Thursday, April 26, 2018
Time: 07:58:13
Comments:

Number of Pages: 7 (including cover sheet)

CONFIDENTIALITY NOTICE: Unless otherwise indicated, the information contained in this communication is confidential information intended for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US Postal Service at our expense. Samples are disposed of in 60 days or unless otherwise instructed by the protocol or special instructions in writing. Thank you.

Table I
Summary of Bulk Asbestos Analysis Results
18-04034; 1585 Hertel Ave (Report Amended 4/26/2018)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	01		----	----	----	----	NAD	NA
Location:	Drywall; @ Register							
02	02		----	----	----	----	NAD	NA
Location:	Drywall; @ Register							
03	03		----	----	----	----	Chrysotile 0.8	NA
Location:	Compound; @ Register							
04	04		----	----	----	----	Chrysotile 0.8	NA
Location:	Compound; @ Register							
05	05	1	----	----	----	----	NAD	NA
Location:	Ext Vent Packing; @ Ceiling Space Htr							
06	06	1	----	----	----	----	NAD	NA
Location:	Ext Vent Packing; @ Ceiling Space Htr							
07	07		0.222	29.1	68.5	2.3	NAD	NAD
Location:	Win Caulk/Glaze; Front Main Windows							
08	08		0.126	37.0	19.1	43.9	NAD	NAD
Location:	Win Caulk/Glaze; Front Main Windows							
09	09		0.237	15.3	74.2	10.4	Chrysotile <1	Chrysotile Trace
Location:	Win Caulk/Glue; Metal Garage Unit							
10	10	2	0.163	70.9	19.8	9.4	NAD	NAD
Location:	Roofing; Ext M							
11	11	2	0.177	73.4	20.0	6.7	NAD	NAD
Location:	Roofing; Ext O							
12	12	3	0.095	68.7	8.1	23.2	NAD	NAD
Location:	Flashing; Ext M							
13	13	3	0.116	78.9	5.2	15.9	NAD	NAD
Location:	Flashing; Ext O							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
18-04034; 1585 Hertel Ave (Report Amended 4/26/2018)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM

TEM Analyzed By: Jean L. Mayes _____ Date Analyzed: 4/25/2018 Reviewed By: _____ Date Reviewed: 4/25/2018

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984);
TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

56 Services, Inc
Attn: Robert Barr
PO Box 561

Buffalo, NY 14213

Date Received 04/24/18 **AmeriSci Job #** 118041917
Date Examined 04/24/18 **P.O. #**
ELAP # 10984 **Page** 1 **of** 3
RE: 18-04034; 1585 Hertel Ave (Report Amended 4/26/2018)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
01	118041917-01	*No*	NAD (by NYS ELAP 198.1) by C. David Mintz on 04/24/18
	Location: Drywall; @ Register		
	Analyst Description: Off White/ Tan, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Cellulose 7 %, Non-fibrous 93 %		
02	118041917-02	*No*	NAD (by NYS ELAP 198.1) by C. David Mintz on 04/24/18
	Location: Drywall; @ Register		
	Analyst Description: Off White/ Tan, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Cellulose 7 %, Non-fibrous 93 %		
03	118041917-03	*Yes*	0.8 % (EPA 400 PC) by C. David Mintz on 04/24/18
	Location: Compound; @ Register		
	Analyst Description: Off White, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types: Chrysotile 0.8 %		
	Other Material: Non-fibrous 99.3 %		
04	118041917-04	*Yes*	0.8 % (EPA 400 PC) by C. David Mintz on 04/24/18
	Location: Compound; @ Register		
	Analyst Description: Off White, Heterogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types: Chrysotile 0.8 %		
	Other Material: Non-fibrous 99.3 %		
05	118041917-05	*No*	NAD (by NYS ELAP 198.1) by C. David Mintz on 04/24/18
1	**Location:** Ext Vent Packing; @ Ceiling Space Htr		
	Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

18-04034; 1585 Hertel Ave (Report Amended 4/26/2018)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
06	118041917-06	*No*	NAD
1	**Location:** Ext Vent Packing; @ Ceiling Space Htr		(by NYS ELAP 198.1) by C. David Mintz on 04/24/18
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
07	118041917-07	*No*	NAD
	Location: Win Caulk/Glaze; Front Main Windows		(by NYS ELAP 198.6) by C. David Mintz on 04/24/18
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Acid Sensitive 68.5 %, Heat Sensitive 29.1 %, Non-fibrous 2.4 %			
Comment: Heat Sensitive (organic): 29.1%; Acid Soluble (inorganic): 68.5%; Inert (Non-asbestos): 2.3%			
08	118041917-08	*No*	NAD
	Location: Win Caulk/Glaze; Front Main Windows		(by NYS ELAP 198.6) by C. David Mintz on 04/24/18
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Acid Sensitive 19.1 %, Heat Sensitive 37 %, Non-fibrous 43.9 %			
Comment: Heat Sensitive (organic): 37.0%; Acid Soluble (inorganic): 19.1%; Inert (Non-asbestos): 43.9%			
09	118041917-09	*Yes*	Trace (<1 %)
	Location: Win Caulk/Glue; Metal Garage Unit		(by NYS ELAP 198.6) by C. David Mintz on 04/24/18
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <1 % pc			
Other Material: Acid Sensitive 74.2 %, Heat Sensitive 15.3 %, Non-fibrous 9.9 %			
Comment: Heat Sensitive (organic): 15.3%; Acid Soluble (inorganic): 74.2%; Inert (Non-asbestos): 9.9%			
10	118041917-10	*No*	NAD
2	**Location:** Roofing; Ext M		(by NYS ELAP 198.6) by C. David Mintz on 04/24/18
Analyst Description: Black/Silver, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Acid Sensitive 19.8 %, Heat Sensitive 70.8 %, Fibrous glass 3 %, Non-fibrous 6.4 %			
Comment: Heat Sensitive (organic): 70.9%; Acid Soluble (inorganic): 19.8%; Inert (Non-asbestos): 9.4%			

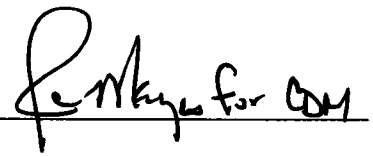
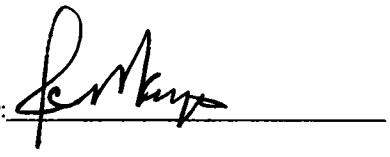
See Reporting notes on last page

PLM Bulk Asbestos Report

18-04034; 1585 Hertel Ave (Report Amended 4/26/2018)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
11	118041917-11	*No*	NAD
2 **Location:** Roofing; Ext O			(by NYS ELAP 198.6) by C. David Mintz on 04/24/18
Analyst Description: Black/Silver, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Acid Sensitive 20 %, Heat Sensitive 73.3 %, Fibrous glass 2 %, Non-fibrous 4.7 %			
Comment: Heat Sensitive (organic): 73.4%; Acid Soluble (inorganic): 20.0%; Inert (Non-asbestos): 6.7%			
12	118041917-12	*No*	NAD
3 **Location:** Flashing; Ext M			(by NYS ELAP 198.6) by C. David Mintz on 04/24/18
Analyst Description: Black/Silver, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Acid Sensitive 8.1 %, Heat Sensitive 68.7 %, Non-fibrous 23.2 %			
Comment: Heat Sensitive (organic): 68.7%; Acid Soluble (inorganic): 8.1%; Inert (Non-asbestos): 23.2%			
13	118041917-13	*No*	NAD
3 **Location:** Flashing; Ext O			(by NYS ELAP 198.6) by C. David Mintz on 04/24/18
Analyst Description: Black/Silver, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Acid Sensitive 5.2 %, Heat Sensitive 78.9 %, Non-fibrous 15.9 %			
Comment: Heat Sensitive (organic): 78.9%; Acid Soluble (inorganic): 5.2%; Inert (Non-asbestos): 15.9%			

Reporting Notes:

Analyzed by: C. David Mintz  Date: 4/24/2018 Reviewed by: 

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

18-04094

56 Services Project Number | Lab ID Number

1585 HERTEL AVE

Project Address

19 Apr. 18

Sampling Date

RUSH 24H 48H 3D 5D

13

Number of Samples

11804191 7

Results Due By

						Lab ID
01			Drywall	@ Register		
02			↓	@ Register		
03			Compound	@ Register		
04			↓	@ Register		
05			Exh Vent Packing	@ Ceiling Space Htr	<10 ft	
06			↓	↓		
07			Win Calk/Glaze	Front Main Windows		
08			↓	↓		
09			Win Calk/Glaze	Metal Garage Unit		
10			Roofing	Ext M		
11			↓	↓ O		
12			Flashing	M		
13			↓	↓ O		

RECEIVED

APR 24 2018

Additional Instructions:

- ☐ Analyze PLM then TEM if negative AND NOB
- ☐ Stop ALL analysis if _____ ACM
- ☐ TEM Analysis only (or as marked above)
- ☒ Positive Stop per group: 05-06, 10-11, 12-13

Analyze for the following State:

- ☐ Pennsylvania
- ☐ Illinois
- ☐ Louisiana
- ☐ West Virginia
- ☐ Other _____

Please analyze as per NYS
If no other state is selected

email results to rob@56services.com

PO Box 561 Buffalo, NY 14213
716.341.8601 (ph) 716.408.9567 (fax)
www.56services.com
56 services

Department of Permit & Inspection Services

.... Building a Better Buffalo

DEMOLITION PERMIT

Department of Permit & Inspection Services

65 Niagara Sq Rm. 301
Buffalo, NY 14202

Byron W. Brown, Mayor

Application Type: Demolition Application

You must contact the Inspector at (716)851-4070 or at the number listed below prior to starting any work.

Application/Permit No.: DEMO18-9451532

Location: 1585 HERTEL

Applicant: NIAGARA ENVIRONMENTAL & WRECK
777 EAST PARK DRIVE
TONAWANDA, NY 14150

SBL No.: 0787400003001000

Land Use: 432

Census Track: 48.00

Inspector: MICHAEL SCHIEBER (716)851-4070

Issue Date: 05/30/2018

Issued By: tcarter

Expire Date: 11/30/2018

Fees: $550.00

License No.: DM313-10024473

License Type: Demolition Grade 3

Value: $8,500.00

Plans: No

Description of Work: demolish 1 story building down to grade - future soil testing and site work to be performed with oversight by NYDEC

YOU MUST CONTACT YOUR INSPECTOR PRIOR TO STARTING ANY WORK

CONTRACTOR MUST CONTACT INSPECTOR FOR BASEMENT INSPECTIONS AND FINAL INSPECTIONS

RECEIVED
MAY 30 2018
COB TREASURY

James Comerford Jr.

Commissioner. Permit & Inspection Services

Thank you for investing in the City of Buffalo

AND AS SHOWN ON APPLICATION NUMBERED ABOVE. WHICH APPLICATION IS MADE PART OF THIS PERMIT.
*** ALL GENERAL CONTRACTORS AND SUB-CONTRACTORS MUST CARRY A CITY LICENSE ***
ALL WORK PERFORMED AND ANY ASSOCIATED PLANS SUBMITTED FOR THE ISSUANCE OF THIS PERMIT, SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
THIS PERMIT IS VOID IF FOUND TO BE ISSUED IN VIOLATION OF ANY LAW OR ORDINANCE AND CONDITIONS STATED ABOVE.

THIS PERMIT MUST BE DISPLAYED WHERE IT IS VISIBLE FROM THE STREET

Signature of Contact/Contractor _____ Date: 5/30/2018

Apply for your next Building Permit online at http://www.city-buffalo.com

APPENDIX H

SOIL/FILL LANDFILL DISPOSAL TONNAGE SUMMARY

SUMMARY OF PETROLEUM AND METALS IMPACTED SOIL/FILL SENT TO CHAFFEE LANDFILL
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

Date	Responsible Company	Disposal Location	Profile	Ticket ID	Manifest	Tons
8/15/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565056	7062090	24.47
8/15/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565090	7062091	20.90
8/15/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565106	7062092	21.40
8/15/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565125	762093	24.12
8/16/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565165	7062094	23.40
8/16/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565190	7062095	20.42
8/16/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565249	7062096	26.29
8/16/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565255	7062097	23.08
8/16/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565264	7062098	21.22
8/16/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565313	7062099	18.93
8/17/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565369	7062100	21.35
8/17/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565378	7062101	20.10
8/17/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565380	7062102	19.01
8/17/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565440	7062103	21.39
8/17/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565453	7062125	20.36
8/20/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565521	7062104	19.13
8/20/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565592	7062105	23.00
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565677	7062106	21.60
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565685	7062107	19.32
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565691	7062108	23.20
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565693	7062113	19.80
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565714	7062109	24.16
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565718	7062110	19.94
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565731	7062111	20.62
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565734	7062112	21.68
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565745	7062114	19.24
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565760	7062117	21.18
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565762	7062116	20.69
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565777	7062115	22.30
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565785	7062118	20.38
8/21/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	565797	7062119	18.22
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566009	7062135	17.86
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566011	7062163	16.39
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566017	7062164	19.43
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566027	7062153	17.87
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566033	7062186	17.63
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566053	7062154	22.73
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566059	7062136	17.90
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566062	7062155	18.52
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566068	7062156	18.70
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566074	7062185	21.41
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566095	7062157	21.76
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566096	7062158	25.89
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566107	7062159	25.98
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566117	7062160	19.87
8/23/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566124	7062152	23.30
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566159	7062161	23.81
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566160	7062162	21.24
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566170	7062165	19.35
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566175	7062120	19.76
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566178	7062121	13.12
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566198	7062122	21.25
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566201	7062123	21.49
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566205	7062124	22.02
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566212	7062126	22.28
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566222	7062127	12.53
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566233	7062128	24.61
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566237	7062129	26.01
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566241	7062130	18.72
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566248	7062131	19.86
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566282	7062132	27.04

SUMMARY OF PETROLEUM AND METALS IMPACTED SOIL/FILL SENT TO CHAFFEE LANDFILL
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

Date	Responsible Company	Disposal Location	Profile	Ticket ID	Manifest	Tons
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566289	7062133	23.82
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566294	7062134	19.92
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566298	7062137	19.02
8/24/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566309	7062138	16.16
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566348	7062174	22.00
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566349	7062175	17.82
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566354	7062176	23.59
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566356	7062177	19.44
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566361	7062178	14.57
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566384	7062179	20.60
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566386	7062180	19.40
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566388	7062181	25.31
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566392	7062182	18.33
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566412	7062139	18.70
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566428	7062140	24.89
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566430	7062143	20.08
8/27/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566438	7062141	21.82
8/28/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566516	7062166	24.00
8/28/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566552	7062142	24.28
8/28/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566692	7062144	25.12
8/28/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566697	7062145	20.83
8/29/2018	Zoladz Construction	Waste Management, Chaffee Landfill, Chaffee, NY	119360NY	566762	7062184	22.12
					Total	**1741.05**

SUMMARY OF PETROLEUM IMPACTED SOIL SENT TO TTC
1585 HERTEL AVENUE SITE (C915328)
BUFFALO, NEW YORK

Date	Responsible Company	Disposal Location	Manifest	Tons
8/16/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	--	22.00
8/16/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24458	22.07
8/16/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24459	22.62
8/16/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24460	25.88
8/16/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24461	23.45
8/16/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24462	26.31
8/16/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24463	21.28
8/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24464	27.47
8/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24466	27.07
8/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24468	26.82
8/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24467	25.42
8/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24469	25.18
8/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24472	19.44
8/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24473	27.83
8/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24474	22.03
8/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24475	24.75
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24476	21.39
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24477	27.58
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24478	28.88
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24480	17.45
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24479	24.33
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24483	23.37
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24485	22.98
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24484	20.85
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24486	22.52
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	2488	20.88
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24491	23.86
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24492	22.15
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24493	23.27
8/20/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24494	21.81
8/21/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24496	20.10
8/21/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24490	15.95
8/21/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24497	25.41
8/21/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	24498	24.26
8/24/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19701	17.36
8/28/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19703	26.69
8/28/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19705	25.15
8/29/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19709	23.25
8/29/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19710	17.21
8/29/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19711	25.01
8/29/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19712	20.93
8/29/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19713	26.32
9/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19775	22.81
9/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19776	23.82
9/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19777	17.1
9/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19778	22.57
9/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19779	16.2
9/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19780	22.5
9/17/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19781	17.74
9/18/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19783	22.69
9/18/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19784	24.62
9/18/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19786	25.31
9/18/2018	Zoladz Construction	Tonawanda Terminals, Tonawanda, NY	19787	19.4
10/15/2018	TurnKey Env. Restoration	Tonawanda Terminals, Tonawanda, NY	19850	18.34
10/15/2018	TurnKey Env. Restoration	Tonawanda Terminals, Tonawanda, NY	19851	21.1
10/15/2018	TurnKey Env. Restoration	Tonawanda Terminals, Tonawanda, NY	19852	20.8
10/15/2018	TurnKey Env. Restoration	Tonawanda Terminals, Tonawanda, NY	19853	21.98
10/15/2018	TurnKey Env. Restoration	Tonawanda Terminals, Tonawanda, NY	19854	9.7
			Total	**1305.26**