SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT

PARCELS LOCATED AT 1984 ELMWOOD AVENUE AND 33-35 NORRIS AVENUE BUFFALO, NEW YORK

March 2021 T0564-021-001

Prepared for:

Uniland Development Company 100 Corporate Parkway, Suite 500 Amherst, New York 14226

Prepared by:



Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716)856-0599

SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT

PARCELS LOCATED AT 1984 ELMWOOD AVENUE AND 33-35 NORRIS AVENUE BUFFALO, NEW YORK

TABLE OF CONTENTS

| 1.0 | INT | RODUCTION | | | | | | | | |
|-----|------------------------|---------------------------------|----|--|--|--|--|--|--|--|
| | 1.1 | Background and Site Description | | | | | | | | |
| | 1.2 | Background and Site Description | 3 | | | | | | | |
| 2.0 | SITI | E INVESTIGATION ACTIVITIES | 5 | | | | | | | |
| | 2.1 | Test Pit Investigation | | | | | | | | |
| 3.0 | INVESTIGATION FINDINGS | | | | | | | | | |
| | 3.1 | Site Geology/Hydrogeology | 6 | | | | | | | |
| | 3.2 | Field Observations | 6 | | | | | | | |
| | 3.3 | Soil Analytical Results | 6 | | | | | | | |
| 4.0 | Con | NCLUSIONS AND RECOMMENDATIONS | 8 | | | | | | | |
| 5.0 | Lim | IITATIONS | 10 | | | | | | | |



SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT

PARCELS LOCATED AT 1984 ELMWOOD AVENUE AND 33-35 NORRIS AVENUE BUFFALO, NEW YORK

LIST OF TABLES

| Table 1 | Summary of Subsurface Field Observations |
|---------|--|
| Table 2 | Analytical Sampling Program Summary |
| Table 3 | Summary of Soil/Fill Sample Analytical Results |
| | |

LIST OF FIGURES

| Figure 1 | Site Location and Vicinity Map |
|----------|---|
| Figure 2 | Site Plan (Aerial) with Investigation Locations |
| Figure 3 | Investigation Locations and SCO Exceedances |

APPENDICES

| Appendix A | Photo Log |
|--------------|-----------|
| 11ppcnaix 11 | I HOW LOS |

Appendix B Laboratory Analytical Data Reports



1.0 Introduction

1.1 Background and Site Description

Benchmark Environmental Engineering and Science, PLLC (Benchmark) performed a Supplemental Phase II Environmental Investigation on behalf of Uniland Development Company (Uniland) at two (2) parcels addressed as 1984 Elmwood Avenue (±6.942-acres) and 33-35 Norris Avenue (±4.45-acres) in the City of Buffalo, New York (Site, see Figures 1 and 2).

The Site is in a highly developed residential, commercial, and industrial area in the City of Buffalo in the vicinity of the intersection of Elmwood Avenue and Hertel Avenue. The majority of the two (2) parcels, totaling ± 11.4 -acres, are vacant. There is a garage/warehouse located on northwestern portion of the 1984 Elmwood Avenue parcel, and two (2) structures located on the southern end of 33-35 Norris Avenue (see Figure 2).

1.2 Previous Study

Some previous investigations^{1,2} have been completed at the Site by others on behalf of Uniland. Historically, the 1984 Elmwood Avenue parcel was used as a steel foundry, for general warehousing; and a railroad spur was present. The steel foundry was demolished in the 1980s. An approximate $\pm 3,100$ square foot 1-story building is present on the northwestern portion of 1984 Elmwood Avenue and the remainder of the northern parcel is vacant.

On the 33-35 Norris Avenue parcel, the southern portion of the Site, an approximate $\pm 14,400$ square foot 2-story building is present with associated asphalt parking lot on the southern end adjacent to an approximate $\pm 4,500$ square foot 2-story building present along Hertel Avenue. The remainder of the southern portion of the Site is vacant.

The 2017 investigation completed by LCS Inc. (LCS) extended across the Site and was intended to assess Recognized Environmental Conditions (RECs) identified in their June 9, 2017 Phase I Environmental Site Assessment (ESA). The LCS investigation identified fill

² "Draft Phase II Environmental Subsurface Investigation, Prospective YMCA North Buffalo Facility Development, Uniland Site, Buffalo, New York". Prepared by Haley & Aldrich of New York. September 2020.



3

¹ "Limited and Focused Geophysical Survey and Limited and Focused Subsurface Soil & Groundwater Investigation Report for the Property Identified as: Mixed-Use Property 1984 Elmwood Avenue, 15, 19, 33, 35, 107, and 125 Norris Street, and 742 Hertel Avenue, Buffalo, New York 14207". Prepared by LCS Inc. November 2017.

material across the Site at depths ranging from 0.5 to 12 feet below ground surface (fbgs). Analytical testing identified polyaromatic hydrocarbons (PAHs) at two (2) locations (TP-1 and TP-4) on the southern portion of the 33-35 Norris Avenue parcel that exceed corresponding Restricted Residential SCOs (RRSCOs) per 6NYCRR Part 375. In addition, benzo(b) fluoranthene (also a PAH) was detected in a groundwater sample collected at TPMW1 from the southern portion 33-35 Norris Avenue along Hertel Avenue above its respective NYSDEC groundwater quality standard.

The previous investigation completed by Haley & Aldrich of New York (H&A) was focused on the northern portion of the Site (1984 Elmwood Avenue parcel) and was intended to assess soil quality related to potential acquisition of the properties and earthwork planning for potential construction.

Similar to LCS, the H&A investigation also identified fill material across the northern parcel of the Site at depths ranging from about 3 to 10 fbgs. According to their Phase II report fill materials generally consisted of silts, sands and gravels containing miscellaneous debris, including concrete, brick, slag, ash, cinders, metal, plastic, rubber, asphalt, and wood. The analytical sampling completed by H&A was done at soil boring locations also used for the geotechnical evaluation. No samples were collected from the test pits completed. In reviewing the test pit logs, a chemical-like odor and a creosote-like odor were noted at TP-2 and TP-3, respectively, in the upper 2 feet at both locations, but again no analytical samples were collected.

The H&A Phase II analytical testing identified a few PAHs above their respective RRSCOs and commercial soil cleanup objectives (CSCOs), and/or Industrial soil cleanup objectives (ISCOs) and various metal analytes (chromium, copper, arsenic, nickel, and manganese) above their respective RRSCOs, CSCOs, and/or ISCOs on 1984 Elmwood Avenue.

The analytical results from the previous investigations which have Part 375 soil cleanup objective (SCO) exceedances are shown on Figure 3, along with Benchmark's Supplemental Phase II results.



2.0 SUPPLEMENTAL SITE INVESTIGATION ACTIVITIES

2.1 Test Pit Investigation

The supplemental investigation consisted of test pit excavation with a mini track-mounted excavator to assess subsurface conditions at the Site. Fifteen (15) test pits designated as BMTP-1 through BMTP-18 were completed at the Site (see Figure 2). The test pits were advanced to depths varying from approximately 3 to 6 fbgs into the underlying the Site.

The soil/fill samples were retrieved from the test pit locations to allow for field characterization of the subsurface lithology and collection of soil/fill samples by Benchmark's geologist. The physical characteristics of the subsurface soil/fill at the test pit locations were classified using the ASTM D2488 Visual-Manual Procedure Description. Soil/fill from each test pit was field screened using a MiniRae 3000 Photoionization Detector (PID). Visual and/or olfactory observations were also noted, if observed. Field observations, including lithology, depths, PID field screen results, etc., at the test pit locations are summarized in the Summary of Subsurface Field Observations provided in Table 1. Photographs taken during the work are included in Appendix A.

Twelve (12) soil/fill samples were selected for laboratory analysis and were transported under chain-of custody command to Alpha Analytical (Alpha) in Westborough, Massachusetts (see Table 2). Sample analysis included USEPA Target Compound List (TCL) volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) using the TCL base-neutral list or CP-51 list, and Resource Conservation and Recovery Act (RCRA) 8 metals. Samples were collected in laboratory provided sample bottles, cooled to 4° C in the field, and transported to the laboratory for analysis.



3.0 INVESTIGATION FINDINGS

3.1 Site Geology

The surface of the Site generally consisted of a mixed vegetative cover (grass, brush, and trees) throughout most of the Site except where buildings or asphalt parking lots were not present.

The subsurface conditions of the Site consisted of varying types of fill materials ranging in depth from 1 to greater than 6 fbgs. Fill depths appeared to be shallower on the western portion of the Site (TP-1, -2, -13, and -15) and deepest in the central portion of the Site (TP-5, TP-7, -8).

Native soil was encountered some test pit locations and consisted of reddish brown sandy lean clay, typical of this area.

Field observations, including lithology, depths, PID scan results, etc., at the test pit locations are summarized in the Summary of Subsurface Field Observations Table provided in Table 1.

3.2 Field Observations

Soil/fill samples from the test pit investigation were observed and field screened for total volatile organics using a PID. No elevated PID readings identified at the test pit locations.

Fill materials or reworked soils were identified at the 15 test pit locations which contained various amounts of dark brown/black fines (silts and sands) and/or clay-like soil with brick, concrete debris, slag, cinders, metal, and ash.

In various locations throughout the Site there is evidence of building debris present, but in larger quantities in the central portion of 33-35 Norris Avenue where vegetated debris mounds of concrete and block potentially from the demolition of the previous foundry building that was present.

3.3 Soil Analytical Results

Table 2 is summary of the analytical samples collected for analysis and the analytical testing assigned. Table 3 presents a summary of the analytical results from the twelve (12)



soil/fill samples that were analyzed. For comparative purposes, Table 3 includes the Part 375 SCOs.

Part 375 SCOs are specific to the intended reuse of a site and are typically employed for comparison at other investigation or remediation sites with NYSDEC oversight, such as Brownfield sites. Based upon current zoning and the anticipated future use of the Site the Restricted Residential SCOs are considered applicable comparative criteria.

Figure 2 identifies the test pits investigation locations discussed below, completed by Benchmark, and Figure 3 identifies Benchmark's along with previous investigation location and associated analytical data identified above their respective Part 375 SCOs.

A copy of the laboratory analytical data report is included in Appendix B.

Volatile Organic Compounds

Two (2) VOCs, acetone and tetrachloroethene, were detected above method detection limits (MDLs) in the one (1) sample analyzed for VOCs during the Supplemental Phase II. The detected concentrations were below their respective Unrestricted soil cleanup objectives (USCOs).

Semi-Volatile Organic Compounds

SVOCs were detected above MDLs in the ten (10) samples analyzed for SVOCs. SVOCs, specifically, polycyclic aromatic hydrocarbons (PAHs) were detected above their respective Part 375 RRSCOs or ISCOs at one (1) investigation location, BMTP-4.

Metal Analytes

Metal analytes were detected above MDLs in the twelve (12) samples analyzed for metals. Metal analytes were detected above their respective Part 375 RRSCO at TP-9, 1 to 2.5 ft (chromium) and ISCO at TP-2, 1.5 to 3 ft (arsenic).



4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Supplemental Phase II Investigation at the Site, Benchmark offers the following conclusions and recommendations:

- The subsurface conditions consisted of varying types of fill materials ranging in depth from 1 to greater than 6 fbgs. Fill depths appeared to be shallower on the western portion of the Site (TP-1, -2, -13, and -15) and deepest in the central portion of the Site (TP-5, TP-7, -8). Fill materials contained various amounts of dark brown/black fines (silts and sands), and/or clay-like soils with brick, concrete debris, slag, cinders, metal, and ash.
- Native soil was encountered at some test pit locations and consisted of reddish brown sandy lean clay, typical of this area.
- SVOCs, specifically PAHs were detected above MDLs in the ten (10) samples analyzed. PAHs were detected above their respective RRSCOs or ISCOs at TP-4, 1 to 3 ft.
- Metals were detected above MDLs in the twelve (12) samples analyzed. Arsenic was
 detected above its ISCO at TP-2, 1.5 to 3 ft (1984 Elmwood Avenue) and
 chromium was detected above its RRSCO at TP-9, 1 to 2.5 ft (33-35 Norris
 Avenue).

The analytical results of the Supplemental Phase II coupled with the analytical results of the previous investigations indicate that both the 1984 Elmwood Avenue and 33-35 Norris Avenue parcels have environmental impacts and may be attributed historic Site usage and/or filling activities. SVOCs and metals were detected at concentrations above their respective RRSCOs, which are applicable for the intended reuse of the Site (multi-family residential development at 33-35 Norris Avenue and athletic facility with an outdoor recreation area at 1984 Elmwood Avenue). There were also some samples exceeding their CSCOs and ISCOs. The contaminated fill material and any other solid waste material generated during the redevelopment project will require proper management and landfill disposal.



SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT 1984 ELMWOOD AVENUE AND 33-35 NORRIS AVENUE BUFFALO, NEW YORK

Based on the existing data, the two (2) parcels are candidates for the BCP. The Site meets the definition of a BCP site per the current BCP law which states a "brownfield site or site shall mean any real property where a contaminant is present at levels exceeding the soil cleanup objectives or other health-based or environmental standards, criteria, or guidance adopted by the department that are applicable based on the reasonably anticipated use of the property, in accordance with applicable regulations."



5.0 LIMITATIONS

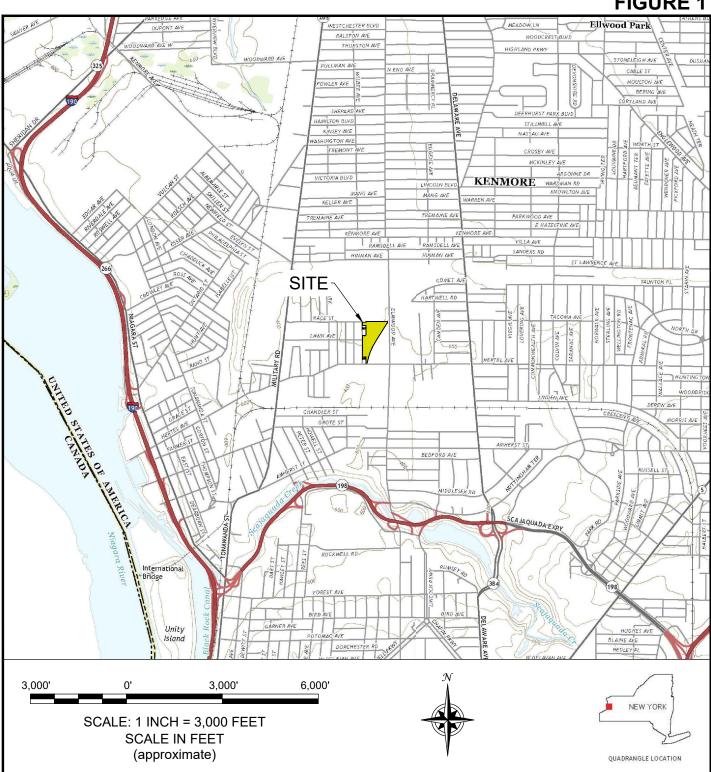
This report has been prepared for the exclusive use of Uniland. The contents of this report are limited to information available at the time of the Supplemental Phase II Environmental Investigation activities and to data referenced herein; and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of Uniland. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering and Science, PLLC.



FIGURES



FIGURE 1





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

PROJECT NO.: B0564-021-001

DATE: MARCH 2021 DRAFTED BY: CNK

SITE LOCATION AND VICINITY MAP

SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT

PARCELS LOCATED AT 1984 ELMWOOD AVENUE AND 33-35 NORRIS AVENUE **BUFFALO, NEW YORK** PREPARED FOR

UNILAND DEVELOPMENT COMPANY

PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC.

IGURE

SITE PLAN (AERIAL) WITH INVESTIGATION LOCATIONS

SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT PARCELS LOCATED AT 1984 ELMWOOD AVENUE AND 33-35 NORRIS AVENUE BUFFALO, NEW YORK

PREPARED FOR

UNILAND DEVELOPMENT COMPANY



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

JOB NO.: B0564-021-001



BENZO(B)FLUORANTHENE

CHRYSENE

INDENO(1,2,3-CD)PYRENE

22

1.6

1.2

323

0.208

PARAMETER LEAD 64.6 **ARSENIC** 17.2 BM TP-4 (1-3 FT) 1/21/2021 LEAD 182 **PARAMETER** MG/KG LCS BH1/TPMW1 BENZO(A)ANTHRACENE 1.4 HERTEL AVENUE LCS BH2 (2-4 FT) 10/24/2017 BENZO(A)PYRENE 1.7

LEAD **MERCURY PREVIOUS INVESTIGATION**

MG/KG

0.118

SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT PARCELS LOCATED AT 1984 ELMWOOD AVENUE AND 33-35 NORRIS AVENUE **BUFFALO, NEW YORK**

LOCATIONS AND EXCEEDANCES

PREPARED FOR UNILAND DEVELOPMENT COMPANY



IMAGE TAKEN FROM BING MAPS 2021.

6 NYCRR PART 375 SOIL CLEANUP

OBJECTIVES (SCOs)

SOIL ANALYTICAL RESULTS COMPARED TO

SCALE: 1 INCH = 125 FEET

SCALE IN FEET

(approximate)

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

125

250'

JOB NO.: B0564-021-001

GURE

PARAMETER

ACETONE

<u>DISCLAIMER:</u>
PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC.



SUMMARY OF SUBSURFACE FIELD OBSERVATIONS SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT 1984 ELMWOOD AVENUE AND 33-35 NORIIS AVENUE BUFFALO, NEW YORK

| Location | Thickness of Fill (ft) | Water Present | Depth of Test Pit (fbgs) | Length of Test Pits (ft) | Test Pit Width (ft) | PID Readings (ppm) | Sample Depth (ft) | Depth (fbgs) and Soil Description | | | |
|----------|---------------------------|------------------|--------------------------------|-----------------------------|------------------------|--------------------------|-------------------------|---|--|--|--|
| | | | | | | | | | | | |
| | | | | | | 0 | | 0 to 0.3 ft: ASPHALT - Dark brown/Black, mostly fines, with some fine sand, some fine sand, mixed with concrete, brick, metal debris, ash and partial burnt material. | | | |
| TP-1 | 2.5 | No | 3.5 | 6 | 2.5 | 0 | | 0.3 to 1 ft: STONE SUB-BASE - Grey, limstone subase, loose. | | | |
| 11 -1 | 2.5 | INO | 0.0 | | 2.0 | 0 | 1 to 2.5 ft | 1 to 2.5 ft: FILL - Dark brown/black, moist, mostly clay mixed with cinders, brick, metal debris. | | | |
| | | | | | | 0 | | 2.5 to 3.5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, with some fine sand, very stiff, rootletts. | | | |
| | | | | | | 0 | | 0 to 0.5 ft: RE-WORKED CLAY - Reddish brown, mostly clay with some fine sand, mixed with pieces of ashphalt, stone and brick. | | | |
| TP-2 | 3 | Yes | 4 | 7 | 3 | 0 | 1.5 to 3 ft | 0.5 to 3.0 ft: FILL - Dark brown/black, moist to wet (2.5 fbgs), mostly fine sand and gravel, large pieces of concrete, brick, metl debris, sheen on perched water, no odors | | | |
| | | | | | | 0 | | 3 to 4 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, with some fine sand, very stiff, rootletts. | | | |
| TP-3 | >3 | No | 3 | 12 | 3 | 0 | | 0 to 3 ft: RE-WORKED CLAY - Reddish brown, mostly clay with some fine sand, mixed with pieces of ashphalt, stone and brick. | | | |
| TP-4 | >3 | No | 3 | 8 | 3 | 0 | | 0 to 3 ft. FILL - Black/dark brown, mostly fine sand with silt fines, orange brick, cinders and concrete. Metal debris, refusal on concrete. | | | |
| TP-5 | >3 | No | 3 | 8 | 4 | 0 | | 0 to 3 ft. FILL - Dark brown/Black, mostly silt fines with some fine sand, orange brick, large concrete debris, metal debris and plastic debris, refusal on brick floor. | | | |
| TP-6 | >4 | No | 4 | 8 | 4 | 0 | 0 - 0.5 ft 1 - 3 ft | 0 to 4 ft. FILL - Dark brown/Black, mostly silt fines with some fine sand, orange brick, large concrete and asphalt debris, metal debris, refusal on lage slag pieces at 4 fbgs. | | | |
| | | | | | | 0 | | 0 to 1 ft: FILL - Dark brown/black, mostly silt and fine sand, with orange brick and concrete. | | | |
| TP-7 | >6 | Yes | 6 | 12 | 3 | 0 | | 1 to 3 ft: FILL - Reb Brown, moist, mostly fine sand, with pieces of sand stone, concrete and brick. | | | |
| | | | | | | 0 | | 3 to 6 ft: FILL - Dark brown/ black, mostly fine sand and silt, with concrete, brick and metal debris, perched water at 5.5 fbgs. | | | |
| TD 0 | | No | | 40 | 2.5 | 0 | 0 - 0.5 ft | 0 to 4 ft: FILL - Brown/black, mostly fines with some fine sand, with concrete, orange brick, large peicies of slag. | | | |
| TP-8 | >6 | No | 6 | 10 | 2.5 | 0 | | 4 to 6 ft: Fill - As above with ash, no slag. | | | |

SUMMARY OF SUBSURFACE FIELD OBSERVATIONS SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT 1984 ELMWOOD AVENUE AND 33-35 NORIIS AVENUE BUFFALO, NEW YORK

| Location | Thickness of Fill (ft) | Water Present | Depth of Test Pit (fbgs) | Length of Test Pits (ft) | Test Pit Width (ft) | PID Readings (ppm) | Sample Depth (ft) | Depth (fbgs) and Soil Description | | | |
|----------|---------------------------|------------------|--------------------------------|-----------------------------|------------------------|--------------------------|-------------------------|---|--|--|--|
| TP-9 | >3 | Ma | 2.5 | 6 | 2 | 0 | | 0 to 1 ft: FILL - Brown/dark brown, mostly fines with some fine sand, with orange brick and slag. | | | |
| 117-9 | >3 | No | 2.5 | 6 | 3 | 0 | 1 - 2.5 ft | 1 to 3 ft FILL - light grey/light brown, mostly slag pieces fused together. | | | |
| TP-10 | 4.5 | Yes | 5 | 8 | 4 | 0 | 2 - 4.5 ft | 0 to 4.5 ft: FILL- Brown/dark brown, mostly silt and clay, with large pieces of asphalt and concrete, brick and slag, perced water at 4 fbgs | | | |
| 11 - 10 | 4.0 | 103 | 3 | 0 | 7 | 0 | | 4.5 to 5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. | | | |
| TP-11 | 3 | Yes | 4 | 8 | 2.5 | 0 | 0 - 0.5 ft | 0 to 3 ft: FILL- Dark brown, moist, mostly silt and sand, brick, slag, concrete, perched water at 2.5 fbgs | | | |
| 1P-11 | 3 | res | 4 | 8 | 2.5 | 0 | | 3 to 4 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. | | | |
| TP-12 | 3 | Yes | 4 | 15 | 2.5 | 0 | | 0 to 3 ft: FILL- Dark brown, moist, mostly silt and sand, brick, slag, concrete, wood, perched water 2.0 fbgs. | | | |
| 11 -12 | 3 | 163 | 7 | 19 | 2.0 | 0 | | 3 to 4 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. | | | |
| | | | | | | 0 | | 0 to 0.5 ft: STONE- grey, moist, mostly crushed limestone. | | | |
| TP-13 | P-13 1 No | | 3 | 10 | 2.5 | 0 | | 0.5 to 1 ft: RE-WORKED CLAY - Dark grey/black, mostly clay with some fine sand, mixed with pieces, stone. | | | |
| | | | | | | 0 | | 1 to 3 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. | | | |
| TD 44 | 0 | NI- | 4 | 0 | 0.5 | 0 | | 0 to 2 ft: FILL- Dark brown, moist, mostly silt and fine sand, large concrete and metal debris, brick. | | | |
| TP-14 | 2 | No | 4 | 8 | 2.5 | 0 | | 2 to 4 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. | | | |
| TP-15 | 2 | No | 3 | 8 | 2.5 | 0 | 0.5 - 2 ft | 0 to 2 ft: FILL- Dark brown/black, moist, mostly silt and fine sand, with slag and brick. | | | |
| 11 - 13 | ۷ | INO | 3 | ŏ | 2.5 | 0 | | 2 to 5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. | | | |

Definitions:

fbgs = feet below ground surface



SUMMARY OF SAMPLING AND ANALYSIS PROGRAM SUPPLEMENTAL PHASE II INVESTIGATION 1984 ELMWOOD AVENUE AND 33-35 NORRIS AVENUE BUFFALO, NEW YORK

| | | | | Analysis | | | | |
|--------------------|---------------------------|-----------|----------------|----------|------------------|---------------|--|--|
| Sample Location | Sample Depth (fbgs) | Soil Type | Parcel Address | TCL VOCs | CP-51 List SVOCs | RCRA 8 Metals | | |
| Subsurfac | e Soil/Fill San | nples | | | | | | |
| TP-1 | 1 to 2.5 ft | Fill | 33-35 Norris | | Х | Х | | |
| TP-2 | 1.5 to 3 ft | Fill | 33-35 Norris | Х | Х | Х | | |
| TP-4 | 0 to 0.5 ft | Fill | 33-35 Norris | | X | X | | |
| TP-4 | 1 to 3 | Fill | 33-35 Norris | | X | X | | |
| TP-5 | 0 to 0.5 ft | Fill | 33-35 Norris | | | Х | | |
| TP-5 | 1 to 3 ft | Fill | 33-35 Norris | | | Х | | |
| TP-6 | 0 to 0.5 ft | Fill | 1984 Elmwood | | Х | Х | | |
| TP-8 | 0 to 0.5 ft | Fill | 1984 Elmwood | | Х | Х | | |
| TP-9 | 1 to 2.5 ft | Fill | 1984 Elmwood | | Х | Х | | |
| TP-10 | 2 to 4.5 ft | Fill | 1984 Elmwood | | Х | Х | | |
| TP-11 | 0 to 0.5 ft | Fill | 1984 Elmwood | | Х | Х | | |
| TP-15 | 0.5 to 2 | Fill | 1984 Elmwood | _ | Χ | Χ | | |

Notes:

fbgs - feet below ground surface.

TCL VOC - Total Compound List, Volatile Organic Compounds

CP-51 List SVOCs - Commissioner's Policy 51 List of Semi-volatile Organic Compounds.

RCRA - Resource Conservation & Recovery Act.



SUMMARY OF SOIL/FILL SAMPLE ANALYTICAL RESULTS SUPPLEMENTAL PHASE II INVESTIGATION 1984 ELMWOOD AVENUE AND 33-35 NORRIS AVENUE **BUFFALO, NEW YORK**

| | | | | | | | | | | SAMPLE I | LOCATIONS | | | | | |
|-----------------------------------|--|--|-------------------------------------|-------------------------------------|------------------|------------------|------------------|----------------|------------------|----------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| PARAMETER ¹ | Unrestricted Use SCOs ² | Restricted Residential Use SCOs ³ | Commercial Use SCOs ³ | Industrial Use SCOs ³ | TP-1 1-2.5 FT | TP-2 1.5-3 FT | TP-4 0-0.5 FT | TP-4 1-3 FT | TP-5 0-0.5 FT | TP-5 1-3 FT | TP-6 0-0.5 FT | TP-8 0-0.5 FT | TP-9 1-2.5 FT | TP-10 2-4.5 FT | TP-11 0-0.5 FT | TP-15 0.5-2 FT |
| Volatile Organic Compounds (VOCs |) - mg/Kg ⁴ | | | | | | | | | 172 | 172021 | | | | | |
| Acetone | 0.05 | 100 | 500 | 1000 | | 0.018 | | | | | | | | | | - |
| Tetrachloroethene | 1.3 | 19 | 150 | 300 | | 0.00057 J | | | | | | | | | | |
| Semi-Volatile Organic Compounds (| iemi-Volatile Organic Compounds (SVOCs) - mg/Kg ⁴ | | | | | | | | | | | | | | | |
| Acenaphthene | 20 | 100 | 500 | 1000 | ND | 0.088 J | 0.043 J | 0.17 | | - | 0.048 J | 0.024 J | ND | 0.089 J | 0.028 J | ND |
| Acenaphthylene | 100 | 100 | 500 | 1000 | ND | ND | 0.06 J | 0.25 | | - | ND | ND | ND | ND | ND | ND |
| Anthracene | 100 | 100 | 500 | 1000 | ND | 0.21 | 0.1 J | 0.61 | | | 0.044 J | 0.05 J | ND | 0.18 | 0.053 J | 0.063 J |
| Benzo(a)anthracene | 1 | 1 | 5.6 | 11 | 0.11 | 0.58 | 0.47 | 1.4 | | | 0.15 | 0.19 | 0.067 J | 0.35 | 0.22 | 0.29 |
| Benzo(a)pyrene | 1 | 1 | 1 | 1.1 | 0.088 J | 0.6 | 0.56 | 1.7 | | | 0.14 J | 0.22 | 0.048 J | 0.41 | 0.26 | 0.3 |
| Benzo(b)fluoranthene | 1 | 1 | 5.6 | 11 | 0.12 | 0.75 | 0.72 | 2.2 | | | 0.19 | 0.3 | 0.066 J | 0.5 | 0.34 | 0.36 |
| Benzo(ghi)perylene | 100 | 100 | 500 | 1000 | 0.047 J | 0.3 | 0.32 | 1.2 | | | 0.093 J | 0.12 J | 0.029 J | 0.22 | 0.13 J | 0.15 |
| Benzo(k)fluoranthene | 0.8 | 3.9 | 56 | 110 | ND | 0.18 | 0.21 | 0.71 | | | 0.061 J | 0.077 J | ND | 0.14 | 0.095 J | 0.12 |
| Chrysene | 1 | 3.9 | 56 | 110 | 0.18 | 0.52 | 0.53 | 1.6 | | | 0.15 | 0.19 | 0.05 J | 0.33 | 0.22 | 0.26 |
| Dibenzo (a,h)anthracene | 0.33 | 0.33 | 0.56 | 1.1 | ND | 0.08 J | 0.08 J | 0.29 | | | ND | 0.031 J | ND | 0.06 J | 0.035 J | 0.042 J |
| Fluoranthene | 100 | 100 | 500 | 1000 | 0.16 | 1.1 | 0.89 | 2.6 | | | 0.32 | 0.36 | 0.13 | 0.69 | 0.44 | 0.53 |
| Fluorene | 30 | 100 | 500 | 1000 | 0.056 J | 0.087 J | 0.049 J | 0.17 J | | | 0.037 J | 0.021 J | ND | 0.094 J | 0.022 J | 0.023 J |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 5.6 | 11 | 0.035 J | 0.34 | 0.34 | 1.2 | | | 0.099 J | 0.13 J | 0.031 J | 0.25 | 0.15 J | 0.17 |
| Naphthalene | 12 | 100 | 500 | 1000 | 0.76 | 0.14 J | 0.22 | 0.35 | | | 0.23 | 0.033 J | ND | 0.041 J | ND | 0.027 J |
| Phenanthrene | 100 | 100 | 500 | 1000 | 0.7 | 0.82 | 0.7 | 1.9 | | | 0.23 | 0.23 | 0.13 | 0.65 | 0.24 | 0.26 |
| Pyrene | 100 | 100 | 500 | 1000 | 0.14 | 0.86 | 0.77 | 2.6 | | | 0.27 | 0.28 | 0.1 J | 0.56 | 0.35 | 0.44 |
| Total Metals - mg/Kg | | | | | | | | | | | | | | | | |
| Arsenic | 13 | 16 | 16 | 16 | 5.12 | 17.2 | 4.11 | 7.96 | 5.56 | 4.31 | 3.19 | 1.83 | 1.89 | 1.44 | 3.44 | 4.7 |
| Barium | 350 | 400 | 400 | 10000 | 59.3 | 117 | 85 | 84.5 | 66.2 | 36.4 | 81.4 | 85.2 | 58.9 | 9.28 | 47.8 | 33.6 |
| Cadmium | 2.5 | 4.3 | 9.3 | 60 | 0.365 J | 1.49 | 1.32 | 1.32 | 0.853 | 1.05 | 1.37 | 1.01 | 0.608 | 0.262 J | 0.514 J | 0.712 |
| Chromium | 30 | 180 | 1500 | 6800 | 19.1 | 18.4 | 23.7 | 18.8 | 8.24 | 14.1 | 73.4 | 73.9 | 209 | 3.21 | 9.02 | 10.6 |
| Lead | 63 | 400 | 1000 | 3900 | 13.3 | 182 | 64.6 | 323 | 86.9 | 79.3 | 67.5 | 59.8 | 24.1 | 8.63 | 30.1 | 44.9 |
| Mercury | 0.18 | 0.81 | 2.8 | 5.7 | 0.075 | ND | 0.097 | 0.208 | 0.121 | 0.07 J | 0.082 J | ND | ND | ND | ND | ND |
| Selenium | 3.9 | 180 | 1500 | 6800 | ND | 0.256 J | 0.345 J | 1.58 | 1.81 | 1.26 | 0.495 J | 0.767 J | 0.539 J | ND | 0.306 J | 0.455 J |
| Silver | 2 | 180 | 1500 | 6800 | ND | ND | ND | 0.323 J | ND | 0.211 J | 0.237 J | 0.358 J | 0.954 | ND | ND | ND |

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
 Values per 6NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives (SCOs), Table 375-6.8(a).
 Values per 6NYCRR Part 375 Restricted Residential Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b).
 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 analyzed for.
- J = Estimated value; result is less than the sample quantitation limit but greater than zero.

| BOLD | = Exceeds USCOs |
|------|------------------|
| BOLD | = Exceeds RRSCOs |
| BOLD | = Exceeds CSCOs |
| BOLD | = Exceeds ISCOs |
| | |

APPENDIX A

PHOTOGRAPHIC LOG



Photo 1:



Photo 3



Photo 2:



Photo 4:



Photo 1: Debris pile on eastern portion of 35 Norris Ave. – Facing east.

Photo 2: Concrete debris located on eastern portion of 35 Norris Ave. – Facing east.

Photo 3: Scattered construction debris on western portion of 35 Norris Ave.

Photo 4: Construction debris located on southern portion of 35 Norris Ave. – Looking south.

1984 Elmwood Avenue and 15, 19, 33-35, 107 & 125 Norris Avenue



Photo 5:





Photo 6:



Photo 8:



Photo 5: Advancement of TP-1, located on 19 Norris Ave. – Facing east.

Photo 6: Typical urban fill material encountered throughout the Site.

Photo 7: Advancement of TP-2, located on 15 Norris Ave. – Facing east.

Photo 8: Sheen on perched water at TP-2 location.

1984 Elmwood Avenue and 15, 19, 33-35, 107 & 125 Norris Avenue



Photo 9:



Photo 11:



Photo 10:



Photo 12:



Photo 9: Fill materials, TP-5, located on southern portion of 35 Norris Ave. – Looking east.

Photo 10: Fill material in TP-6, located on western portion of 35 Norris Ave. – Looking west.

Photo 11: Fill material in TP-7, located on northwestern portion of 35 Norris Ave. – Looking west.

Photo 12: Slag/fill material in TP-9, located on northern portion of 35 Norris Ave.

1984 Elmwood Avenue and 15, 19, 33-35, 107 & 125 Norris Avenue



Photo 13:





Photo 15:



Photo 16:



Fill debris in TP-10, located in southern corner of 1984 Elmwood – Facing South. Photo 13:

Soil/fill debris in TP-14, located in southeastern corner of 125 Norris Ave. – Facing South. Photo 14:

Photo 15: Advancing TP-15, located on 107 Norris Ave. – Facing west.

Photo 16: Soil/fill with slag in TP-15. - Facing west.

1984 Elmwood Avenue and 15, 19, 33-35, 107 & 125 Norris Avenue



APPENDIX B

LABORATORY ANALYTICAL DATA REPORTS





ANALYTICAL REPORT

Lab Number: L2103685

Client: Benchmark & Turnkey Companies

2558 Hamburg Turnpike

Suite 300

Buffalo, NY 14218

ATTN: Chris Boron
Phone: (716) 856-0599

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Report Date: 02/08/21

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

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

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



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

 Lab Number:
 L2103685

 Report Date:
 02/08/21

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|------------------|--------|--------------------|-------------------------|--------------|
| L2103685-01 | TP-2 1.5-3 FT | SOIL | BUFFALO, NY | 01/21/21 08:32 | 01/22/21 |
| L2103685-02 | TP-4 1-3 FT | SOIL | BUFFALO, NY | 01/21/21 09:31 | 01/22/21 |
| L2103685-03 | TP-5 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 10:12 | 01/22/21 |
| L2103685-04 | TP-5 1-3 FT | SOIL | BUFFALO, NY | 01/21/21 10:15 | 01/22/21 |
| L2103685-05 | TP-6 3-4 FT | SOIL | BUFFALO, NY | 01/21/21 11:06 | 01/22/21 |
| L2103685-06 | TP-7 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 11:51 | 01/22/21 |
| L2103685-07 | TP-8 4-6 FT | SOIL | BUFFALO, NY | 01/21/21 12:40 | 01/22/21 |
| L2103685-08 | TP-9 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 12:55 | 01/22/21 |
| L2103685-09 | TP-10 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 13:25 | 01/22/21 |
| L2103685-10 | TP-11 1-3 FT | SOIL | BUFFALO, NY | 01/21/21 14:09 | 01/22/21 |
| L2103685-11 | TP-12 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 14:20 | 01/22/21 |
| L2103685-12 | TP-12 0.5-3 FT | SOIL | BUFFALO, NY | 01/21/21 14:23 | 01/22/21 |
| L2103685-13 | TP-13 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 14:56 | 01/22/21 |
| L2103685-14 | TP-13 0.5-1.0 FT | SOIL | BUFFALO, NY | 01/21/21 15:01 | 01/22/21 |
| L2103685-15 | TP-14 0.5-2.0 FT | SOIL | BUFFALO, NY | 01/21/21 15:15 | 01/22/21 |
| L2103685-16 | TP-15 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 15:45 | 01/22/21 |
| L2103685-17 | TP-10 2-4.5 FT | SOIL | BUFFALO, NY | 01/21/21 13:23 | 01/22/21 |
| L2103685-18 | TP-9 1-2.5 FT | SOIL | BUFFALO, NY | 01/21/21 13:00 | 01/22/21 |
| L2103685-19 | TP-15 0.5-2 FT | SOIL | BUFFALO, NY | 01/21/21 15:48 | 01/22/21 |
| L2103685-20 | TP-7 1-3 FT | SOIL | BUFFALO, NY | 01/21/21 11:45 | 01/22/21 |



Project Name:ELMWOOD+HERTELLab Number:L2103685Project Number:B0564-021-001Report Date:02/08/21

Case Narrative

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

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

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

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

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

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



Serial_No:02082112:32

Project Name:ELMWOOD+HERTELLab Number:L2103685Project Number:B0564-021-001Report Date:02/08/21

Case Narrative (continued)

Report Submission

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

Sample Receipt

The analyses performed were specified by the client.

L2103685-02: The container for the NY CP-51 PAHs - EPA 8270D analysis was received damaged (cap was broken); however, there was adequate sample remaining to perform the requested 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.

Nachelle M. Morris

Authorized Signature:

Title: Technical Director/Representative Date: 02/08/21

ALPHA

ORGANICS



SEMIVOLATILES



Serial_No:02082112:32

Project Name: ELMWOOD+HERTEL Lab Number: L2103685

Project Number: B0564-021-001 **Report Date:** 02/08/21

SAMPLE RESULTS

Lab ID: Date Collected: 01/21/21 09:31

Client ID: TP-4 1-3 FT Date Received: 01/22/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1.8270D Extraction Date: 02/04/21 07:57

Analytical Method: 1,8270D Extraction Date: 02/04/21 07:57

Analytical Date: 02/05/21 14:38

Analyst: WR Percent Solids: 84%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | | | |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|--|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | | | | | | |
| Acenaphthene | 170 | | ug/kg | 160 | 20. | 1 | | | | | |
| Fluoranthene | 2600 | | ug/kg | 120 | 22. | 1 | | | | | |
| Naphthalene | 350 | | ug/kg | 190 | 24. | 1 | | | | | |
| Benzo(a)anthracene | 1400 | | ug/kg | 120 | 22. | 1 | | | | | |
| Benzo(a)pyrene | 1700 | | ug/kg | 160 | 47. | 1 | | | | | |
| Benzo(b)fluoranthene | 2200 | | ug/kg | 120 | 33. | 1 | | | | | |
| Benzo(k)fluoranthene | 710 | | ug/kg | 120 | 31. | 1 | | | | | |
| Chrysene | 1600 | | ug/kg | 120 | 20. | 1 | | | | | |
| Acenaphthylene | 250 | | ug/kg | 160 | 30. | 1 | | | | | |
| Anthracene | 610 | | ug/kg | 120 | 38. | 1 | | | | | |
| Benzo(ghi)perylene | 1200 | | ug/kg | 160 | 23. | 1 | | | | | |
| Fluorene | 170 | J | ug/kg | 190 | 19. | 1 | | | | | |
| Phenanthrene | 1900 | | ug/kg | 120 | 24. | 1 | | | | | |
| Dibenzo(a,h)anthracene | 290 | | ug/kg | 120 | 22. | 1 | | | | | |
| Indeno(1,2,3-cd)pyrene | 1200 | | ug/kg | 160 | 27. | 1 | | | | | |
| Pyrene | 2600 | | ug/kg | 120 | 19. | 1 | | | | | |

| Surrogate | % Recovery | Accep Qualifier Crit | |
|------------------|------------|-------------------------|------|
| Nitrobenzene-d5 | 59 | 23 | -120 |
| 2-Fluorobiphenyl | 54 | 30 | -120 |
| 4-Terphenyl-d14 | 52 | 18 | -120 |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103685

Report Date: 02/08/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Analytical Date: 02/04/21 22:24

Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 02/04/21 07:57

| Parameter | Result | Qualifier U | Jnits | | RL | MDL | |
|--------------------------------|---------------|---------------|----------|----|--------|-------------|--|
| Semivolatile Organics by GC/MS | - Westborough | n Lab for san | nple(s): | 02 | Batch: | WG1461574-1 | |
| Acenaphthene | ND | ı | ug/kg | | 130 | 17. | |
| Fluoranthene | ND | | ug/kg | | 99 | 19. | |
| Naphthalene | ND | I | ug/kg | | 160 | 20. | |
| Benzo(a)anthracene | ND | ı | ug/kg | | 99 | 18. | |
| Benzo(a)pyrene | ND | l | ug/kg | | 130 | 40. | |
| Benzo(b)fluoranthene | ND | l | 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 | ı | 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 | ı | ug/kg | | 130 | 23. | |
| Pyrene | ND | | ug/kg | | 99 | 16. | |
| | | | | | | | |

| Surrogate | %Recovery Q | Acceptance ualifier Criteria |
|----------------------|-------------|---------------------------------|
| 2-Fluorophenol | 74 | 25-120 |
| Phenol-d6 | 75 | 10-120 |
| Nitrobenzene-d5 | 91 | 23-120 |
| 2-Fluorobiphenyl | 76 | 30-120 |
| 2,4,6-Tribromophenol | 89 | 10-136 |
| 4-Terphenyl-d14 | 77 | 18-120 |



Lab Control Sample Analysis Batch Quality Control

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103685

Report Date:

02/08/21

| arameter | LCS %Recovery | Qual | LCSD %Recovery | % Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|-----------------------------------|------------------------|-----------------|-------------------|-------------|---------------------|-----|------|---------------|
| emivolatile Organics by GC/MS - W | estborough Lab Associa | ated sample(s): | 02 Batch: | WG1461574-2 | WG1461574-3 | | | |
| Acenaphthene | 64 | | 66 | | 31-137 | 3 | | 50 |
| Fluoranthene | 66 | | 68 | | 40-140 | 3 | | 50 |
| Naphthalene | 61 | | 60 | | 40-140 | 2 | | 50 |
| Benzo(a)anthracene | 64 | | 64 | | 40-140 | 0 | | 50 |
| Benzo(a)pyrene | 66 | | 66 | | 40-140 | 0 | | 50 |
| Benzo(b)fluoranthene | 60 | | 68 | | 40-140 | 13 | | 50 |
| Benzo(k)fluoranthene | 70 | | 62 | | 40-140 | 12 | | 50 |
| Chrysene | 62 | | 62 | | 40-140 | 0 | | 50 |
| Acenaphthylene | 65 | | 65 | | 40-140 | 0 | | 50 |
| Anthracene | 67 | | 68 | | 40-140 | 1 | | 50 |
| Benzo(ghi)perylene | 64 | | 66 | | 40-140 | 3 | | 50 |
| Fluorene | 65 | | 66 | | 40-140 | 2 | | 50 |
| Phenanthrene | 62 | | 64 | | 40-140 | 3 | | 50 |
| Dibenzo(a,h)anthracene | 66 | | 67 | | 40-140 | 2 | | 50 |
| Indeno(1,2,3-cd)pyrene | 66 | | 65 | | 40-140 | 2 | | 50 |
| Pyrene | 65 | | 67 | | 35-142 | 3 | | 50 |

Lab Control Sample Analysis

ELMWOOD+HERTEL Batch Quality Control

Lab Number: L2103685

Project Number: B0564-021-001 **Report Date:** 02/08/21

LCS LCSD %Recovery RPD
Parameter %Recovery Qual %Recovery Qual Limits RPD Qual Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1461574-2 WG1461574-3

| Surrogate | LCS %Recovery Qua | LCSD al %Recovery Qua | Acceptance Criteria |
|----------------------|----------------------|--------------------------|------------------------|
| 2-Fluorophenol | 62 | 62 | 25-120 |
| Phenol-d6 | 63 | 63 | 10-120 |
| Nitrobenzene-d5 | 74 | 75 | 23-120 |
| 2-Fluorobiphenyl | 61 | 63 | 30-120 |
| 2,4,6-Tribromophenol | 73 | 78 | 10-136 |
| 4-Terphenyl-d14 | 61 | 64 | 18-120 |



Project Name:

METALS



044401 5 050111 70

•

SAMPLE RESULTS

Lab ID:L2103685-01Date Collected:01/21/21 08:32Client ID:TP-2 1.5-3 FTDate Received:01/22/21Sample Location:BUFFALO, NYField Prep:Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 75%

Dilution Date Date Prep Analytical Method **Parameter** Result Qualifier Units Factor **Prepared** Analyzed Method RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 17.2 mg/kg 0.511 0.106 1 02/04/21 07:10 02/05/21 19:08 EPA 3050B 1,6010D BV Barium, Total 117 mg/kg 0.511 0.089 1 02/04/21 07:10 02/05/21 19:08 EPA 3050B 1,6010D ΒV 1 Cadmium, Total 1.49 mg/kg 0.511 0.050 02/04/21 07:10 02/05/21 19:08 EPA 3050B 1,6010D BV 1 Chromium, Total 18.4 mg/kg 0.511 0.049 02/04/21 07:10 02/05/21 19:08 EPA 3050B 1,6010D ΒV ΒV 182 2.56 0.137 02/04/21 07:10 02/05/21 19:08 EPA 3050B 1,6010D Lead, Total mg/kg 1 ND 1,7471B Mercury, Total 0.084 0.055 1 02/04/21 06:30 02/04/21 20:53 EPA 7471B NΒ mg/kg J Selenium, Total 0.256 mg/kg 1.02 0.132 1 02/04/21 07:10 02/05/21 19:08 EPA 3050B 1,6010D ΒV Silver, Total ND 0.511 0.145 1 02/04/21 07:10 02/05/21 19:08 EPA 3050B 1,6010D ΒV mg/kg



D0004 021 001

Epolit Date. 02/06/

SAMPLE RESULTS

Lab ID:L2103685-02Date Collected:01/21/21 09:31Client ID:TP-4 1-3 FTDate Received:01/22/21Sample Location:BUFFALO, NYField Prep:Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 84%

Dilution Date Date Prep Analytical Method **Parameter** Qualifier Units Factor **Prepared** Analyzed Method Result RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 7.96 mg/kg 0.454 0.095 1 02/03/21 21:35 02/05/21 15:17 EPA 3050B 1,6010D BV Barium, Total 84.5 mg/kg 0.454 0.079 1 02/03/21 21:35 02/05/21 15:17 EPA 3050B 1,6010D ΒV 1 Cadmium, Total 1.32 mg/kg 0.454 0.045 02/03/21 21:35 02/05/21 15:17 EPA 3050B 1,6010D BV 1 Chromium, Total 18.8 mg/kg 0.454 0.044 02/03/21 21:35 02/05/21 15:17 EPA 3050B 1,6010D ΒV 2.27 ΒV 323 0.122 02/03/21 21:35 02/05/21 15:17 EPA 3050B 1,6010D Lead, Total mg/kg 1 1,7471B Mercury, Total 0.208 0.078 0.051 1 02/03/21 22:30 02/04/21 19:54 EPA 7471B NΒ mg/kg Selenium, Total 1.58 mg/kg 0.909 0.117 1 02/03/21 21:35 02/05/21 15:17 EPA 3050B 1,6010D ΒV Silver, Total 0.323 J 0.454 0.128 1 02/03/21 21:35 02/05/21 15:17 EPA 3050B 1,6010D ΒV mg/kg



SAMPLE RESULTS

 Lab ID:
 L2103685-03
 Date Collected:
 01/21/21 10:12

 Client ID:
 TP-5 0-0.5 FT
 Date Received:
 01/22/21

 Sample Location:
 BUFFALO, NY
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 66%

| Percent Solids: | 00 /0 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 5.65 | | mg/kg | 0.592 | 0.123 | 1 | 02/03/21 21:35 | 02/05/21 15:22 | EPA 3050B | 1,6010D | BV |
| Barium, Total | 66.2 | | mg/kg | 0.592 | 0.103 | 1 | 02/03/21 21:35 | 02/05/21 15:22 | EPA 3050B | 1,6010D | BV |
| Cadmium, Total | 0.853 | | mg/kg | 0.592 | 0.058 | 1 | 02/03/21 21:35 | 5 02/05/21 15:22 | EPA 3050B | 1,6010D | BV |
| Chromium, Total | 8.24 | | mg/kg | 0.592 | 0.057 | 1 | 02/03/21 21:35 | 02/05/21 15:22 | EPA 3050B | 1,6010D | BV |
| Lead, Total | 86.9 | | mg/kg | 2.96 | 0.159 | 1 | 02/03/21 21:35 | 02/05/21 15:22 | EPA 3050B | 1,6010D | BV |
| Mercury, Total | 0.121 | | mg/kg | 0.099 | 0.065 | 1 | 02/03/21 22:30 | 02/04/21 19:57 | EPA 7471B | 1,7471B | NB |
| Selenium, Total | 1.81 | | mg/kg | 1.18 | 0.153 | 1 | 02/03/21 21:35 | 5 02/05/21 15:22 | EPA 3050B | 1,6010D | BV |
| Silver, Total | ND | | mg/kg | 0.592 | 0.168 | 1 | 02/03/21 21:35 | 5 02/05/21 15:22 | EPA 3050B | 1,6010D | BV |



SAMPLE RESULTS

 Lab ID:
 L2103685-04
 Date Collected:
 01/21/21 10:15

 Client ID:
 TP-5 1-3 FT
 Date Received:
 01/22/21

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 87%

Dilution Date Date Prep Analytical Method **Parameter** Qualifier Units Factor **Prepared** Analyzed Method Result RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 4.31 mg/kg 0.450 0.094 1 02/03/21 21:35 02/05/21 15:26 EPA 3050B 1,6010D BV Barium, Total 36.4 mg/kg 0.450 0.078 1 02/03/21 21:35 02/05/21 15:26 EPA 3050B 1,6010D ΒV 1 Cadmium, Total 1.05 mg/kg 0.450 0.044 02/03/21 21:35 02/05/21 15:26 EPA 3050B 1,6010D BV 1 Chromium, Total 14.1 mg/kg 0.450 0.043 02/03/21 21:35 02/05/21 15:26 EPA 3050B 1,6010D ΒV ΒV 79.3 2.25 0.120 02/03/21 21:35 02/05/21 15:26 EPA 3050B 1,6010D Lead, Total mg/kg 1 J 1,7471B Mercury, Total 0.070 0.081 0.053 1 02/03/21 22:30 02/04/21 20:01 EPA 7471B NΒ mg/kg Selenium, Total 1.26 mg/kg 0.899 0.116 1 02/03/21 21:35 02/05/21 15:26 EPA 3050B 1,6010D ΒV Silver, Total 0.211 J 0.450 0.127 1 02/03/21 21:35 02/05/21 15:26 EPA 3050B 1,6010D ΒV mg/kg



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103685

Report Date: 02/08/21

Method Blank Analysis Batch Quality Control

| Parameter | Result Q | ualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--------------------------|------------|----------|---------|----------|---------------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield | Lab for sa | mple(s): | 02-04 B | atch: Wo | 314613 | 00-1 | | | | |
| Arsenic, Total | ND | | mg/kg | 0.400 | 0.083 | 1 | 02/03/21 21:35 | 02/05/21 12:07 | 1,6010D | GD |
| Barium, Total | ND | | mg/kg | 0.400 | 0.070 | 1 | 02/03/21 21:35 | 02/05/21 12:07 | 1,6010D | GD |
| Cadmium, Total | ND | | mg/kg | 0.400 | 0.039 | 1 | 02/03/21 21:35 | 02/05/21 12:07 | 1,6010D | GD |
| Chromium, Total | 0.060 | J | mg/kg | 0.400 | 0.038 | 1 | 02/03/21 21:35 | 02/05/21 12:07 | 1,6010D | GD |
| Lead, Total | ND | | mg/kg | 2.00 | 0.107 | 1 | 02/03/21 21:35 | 02/05/21 12:07 | 1,6010D | GD |
| Selenium, Total | 0.196 | J | mg/kg | 0.800 | 0.103 | 1 | 02/03/21 21:35 | 02/05/21 12:07 | 1,6010D | GD |
| Silver, Total | ND | | mg/kg | 0.400 | 0.113 | 1 | 02/03/21 21:35 | 02/05/21 12:07 | 7 1,6010D | GD |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | |
|----------------------|-------------------------|---------|---------|--------|--------------------|------------------|------------------|----------------------|----|
| Total Metals - Mansf | ield Lab for sample(s): | 02-04 B | atch: W | G14613 | 01-1 | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | 0.054 | 1 | 02/03/21 22:30 | 02/04/21 19:34 | 1,7471B | NB |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------|-----------------------|----------|---------|---------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfiel | ld Lab for sample(s): | 01 Batch | n: WG14 | 461515- | 1 | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | 0.054 | 1 | 02/04/21 06:30 | 02/04/21 20:27 | 7 1,7471B | NB |

Prep Information

Digestion Method: EPA 7471B



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103685

Report Date: 02/08/21

Method Blank Analysis Batch Quality Control

| Parameter | Result (| Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------|--------------|-----------|----------|---------|---------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfiel | d Lab for sa | ample(s): | 01 Batch | n: WG14 | 461534- | 1 | | | | |
| Arsenic, Total | ND | | mg/kg | 0.400 | 0.083 | 1 | 02/04/21 07:10 | 02/05/21 08:47 | 1,6010D | GD |
| Barium, Total | ND | | mg/kg | 0.400 | 0.070 | 1 | 02/04/21 07:10 | 02/05/21 08:47 | 1,6010D | GD |
| Cadmium, Total | ND | | mg/kg | 0.400 | 0.039 | 1 | 02/04/21 07:10 | 02/05/21 08:47 | 1,6010D | GD |
| Chromium, Total | 0.116 | J | mg/kg | 0.400 | 0.038 | 1 | 02/04/21 07:10 | 02/05/21 08:47 | 1,6010D | GD |
| Lead, Total | ND | | mg/kg | 2.00 | 0.107 | 1 | 02/04/21 07:10 | 02/05/21 08:47 | 1,6010D | GD |
| Selenium, Total | ND | | mg/kg | 0.800 | 0.103 | 1 | 02/04/21 07:10 | 02/05/21 08:47 | 1,6010D | GD |
| Silver, Total | ND | | mg/kg | 0.400 | 0.113 | 1 | 02/04/21 07:10 | 02/05/21 08:47 | 1,6010D | GD |

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103685

| Parameter | LCS %Recover | y Qual | LCSI %Reco | | %Recovery Limits | RPD | Qual | RPD Limits |
|--|-----------------|-------------|---------------|---------------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample | (s): 02-04 E | Batch: WG14 | 61300-2 | SRM Lot Numb | er: D109-540 | | | |
| Arsenic, Total | 103 | | - | | 70-130 | - | | |
| Barium, Total | 92 | | - | | 75-125 | - | | |
| Cadmium, Total | 97 | | - | | 75-125 | - | | |
| Chromium, Total | 95 | | - | | 70-130 | - | | |
| Lead, Total | 96 | | - | | 72-128 | - | | |
| Selenium, Total | 104 | | - | | 68-132 | - | | |
| Silver, Total | 100 | | - | | 68-131 | - | | |
| Total Metals - Mansfield Lab Associated sample | (s): 02-04 E | Batch: WG14 | 61301-2 | SRM Lot Numb | er: D109-540 | | | |
| Mercury, Total | 75 | | - | | 60-140 | - | | |
| Total Metals - Mansfield Lab Associated sample | (s): 01 Bato | ch: WG14615 | 515-2 SRI | M Lot Number: | D109-540 | | | |
| Mercury, Total | 100 | | - | | 60-140 | - | | |



Lab Control Sample Analysis Batch Quality Control

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103685

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|--|------------------------|-------------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associated samp | ole(s): 01 Batch: WG14 | 161534-2 SRM Lot Number | r: D109-540 | | |
| Arsenic, Total | 102 | - | 70-130 | - | |
| Barium, Total | 97 | - | 75-125 | - | |
| Cadmium, Total | 101 | - | 75-125 | - | |
| Chromium, Total | 101 | - | 70-130 | - | |
| Lead, Total | 95 | - | 72-128 | - | |
| Selenium, Total | 100 | - | 68-132 | - | |
| Silver, Total | 104 | - | 68-131 | - | |



Matrix Spike Analysis Batch Quality Control

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103685

| ırameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery Qu | Recovery al Limits | RPD Qual | RPD Limits |
|-----------------------------|-------------------|---------------|-------------|-----------------|--------|--------------|---------------------|-----------------------|----------|---------------|
| otal Metals - Mansfield L | ab Associated san | nple(s): 02-0 | 4 QC Bate | ch ID: WG146 | 1300-3 | QC Sam | nple: L2105060-02 | Client ID: MS | Sample | |
| Arsenic, Total | 26.2 | 56.5 | 84.8 | 104 | | - | - | 75-125 | - | 20 |
| Barium, Total | 75.6 | 942 | 1010 | 99 | | - | - | 75-125 | - | 20 |
| Cadmium, Total | 12.4 | 24 | 37.2 | 103 | | - | - | 75-125 | - | 20 |
| Chromium, Total | 49.8 | 94.2 | 136 | 91 | | - | - | 75-125 | - | 20 |
| Lead, Total | 153 | 240 | 394 | 100 | | - | - | 75-125 | - | 20 |
| Selenium, Total | 6.21 | 56.5 | 67.2 | 108 | | - | - | 75-125 | - | 20 |
| Silver, Total | 12.8 | 141 | 161 | 105 | | - | - | 75-125 | - | 20 |
| otal Metals - Mansfield L | ab Associated san | nple(s): 02-0 | 4 QC Bate | ch ID: WG146 | 1301-3 | QC Sam | nple: L2105060-02 | Client ID: MS | Sample | |
| Mercury, Total | ND | 0.858 | 0.695 | 81 | | - | - | 80-120 | - | 20 |
| otal Metals - Mansfield L | ab Associated san | nple(s): 01 | QC Batch I | D: WG146151 | 5-3 | QC Sample | e: L2100009-205 | Client ID: MS S | Sample | |
| Mercury, Total | 1.08 | 1.27 | 0.786 | 0 | Q | - | - | 80-120 | - | 20 |
| otal Metals - Mansfield L | ab Associated sam | nple(s): 01 | QC Batch I | D: WG146153 | 34-3 (| QC Sample | e: L2105208-01 Cl | ient ID: MS Sa | ample | |
| Arsenic, Total | 8.81 | 11.5 | 18.3 | 82 | | - | - | 75-125 | - | 20 |
| Barium, Total | 123 | 192 | 265 | 74 | Q | - | - | 75-125 | - | 20 |
| Cadmium, Total | 0.625 | 4.88 | 4.41 | 77 | | - | - | 75-125 | - | 20 |
| Chromium, Total | 10.3 | 19.2 | 24.7 | 75 | | - | - | 75-125 | - | 20 |
| | 10.0 | 10.2 | = | | | | | | | |
| Lead, Total | 13.2 | 48.8 | 45.5 | 66 | Q | - | - | 75-125 | - | 20 |
| Lead, Total Selenium, Total | | | | 66 75 | Q | - | - | 75-125 75-125 | - | 20 |



Lab Duplicate Analysis Batch Quality Control

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103685

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|------------------------|----------------------|---------------|--------------|-----------|------------|
| Total Metals - Mansfield Lab Associated sample(s): | 02-04 QC Batch ID: WG1 | 1461300-4 QC Sample: | : L2105060-02 | Client ID: | DUP San | nple |
| Arsenic, Total | 26.2 | 28.0 | mg/kg | 7 | | 20 |
| Barium, Total | 75.6 | 84.8 | mg/kg | 11 | | 20 |
| Cadmium, Total | 12.4 | 13.5 | mg/kg | 8 | | 20 |
| Chromium, Total | 49.8 | 59.3 | mg/kg | 17 | | 20 |
| Lead, Total | 153 | 220 | mg/kg | 36 | Q | 20 |
| Selenium, Total | 6.21 | 7.72 | mg/kg | 22 | Q | 20 |
| Silver, Total | 12.8 | 12.8 | mg/kg | 0 | | 20 |
| Total Metals - Mansfield Lab Associated sample(s): | 02-04 QC Batch ID: WG1 | 1461301-4 QC Sample: | : L2105060-02 | Client ID: | DUP San | nple |
| Mercury, Total | ND | ND | mg/kg | NC | | 20 |
| Total Metals - Mansfield Lab Associated sample(s): | 01 QC Batch ID: WG146 | 1515-4 QC Sample: L2 | 2100009-205 C | Client ID: D | OUP Samp | le |
| Mercury, Total | 1.08 | 0.616 | mg/kg | 55 | Q | 20 |
| Fotal Metals - Mansfield Lab Associated sample(s): | 01 QC Batch ID: WG146 | 1534-4 QC Sample: L2 | 2105208-01 CI | ient ID: Dl | JP Sample | 9 |
| Arsenic, Total | 8.81 | 10.3 | mg/kg | 16 | | 20 |



INORGANICS & MISCELLANEOUS



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001 Lab Number:

L2103685

Report Date: 02/08/21

SAMPLE RESULTS

Lab ID: L2103685-01

Client ID: TP-2 1.5-3 FT Sample Location: BUFFALO, NY Date Collected:

01/21/21 08:32

Date Received:

01/22/21

Not Specified Field Prep:

Sample Depth:

Matrix:

Soil

| Paramete | r Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---------------|-------------------------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Ch | emistry - Mansfield Lab | | | | | | | | | |
| Solids, Total | 75.0 | | % | 0.100 | 0.100 | 1 | - | 02/03/21 12:09 | 121,2540G | AL |



Project Name: ELMWOOD+HERTEL

Lab Number: L2103685 B0564-021-001

Report Date: 02/08/21

SAMPLE RESULTS

Lab ID: Date Collected: L2103685-02 01/21/21 09:31

Client ID: TP-4 1-3 FT Date Received: 01/22/21 Not Specified Sample Location: BUFFALO, NY Field Prep:

Sample Depth:

Project Number:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | Vestborough Lab |) | | | | | | | | |
| Solids, Total | 84.0 | | % | 0.100 | NA | 1 | - | 02/03/21 10:54 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

Lab Number:

L2103685

Project Number: B0564-021-001 Report Date:

02/08/21

SAMPLE RESULTS

Lab ID: L2103685-03

TP-5 0-0.5 FT

Date Collected:

01/21/21 10:12

Client ID: Sample Location: BUFFALO, NY Date Received: Field Prep:

01/22/21 Not Specified

Sample Depth:

Matrix:

Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | estborough Lab |) | | | | | | | | |
| Solids, Total | 66.3 | | % | 0.100 | NA | 1 | - | 02/03/21 10:54 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103685

Report Date: 02/08/21

SAMPLE RESULTS

Lab ID: L2103685-04

Client ID: TP-5 1-3 FT Sample Location: BUFFALO, NY

Date Collected:

01/21/21 10:15

1P-5 1-3 F I

Date Received:

01/22/21

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 - W | estborough Lab |) | | | | | | | | |
| Solids, Total | 86.6 | | % | 0.100 | NA | 1 | - | 02/03/21 10:54 | 121,2540G | RI |



Lab Duplicate Analysis Batch Quality Control

ELMWOOD+HERTEL Batch Quality C

Lab Number:

L2103685

Project Number: B0564-021-001

Project Name:

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual RPD Lir | nits |
|--|---------------------|--------------------|--------------|--------------|---------------------|------|
| General Chemistry - Westborough Lab Associated sample | e(s): 02-04 QC Batc | h ID: WG1461276-1 | QC Sample: L | .2103685-02 | Client ID: TP-4 1-3 | FT |
| Solids, Total | 84.0 | 85.0 | % | 1 | 20 | |
| General Chemistry - Mansfield Lab Associated sample(s) | : 01 QC Batch ID: V | VG1461303-1 QC Sar | mple: L21050 | 12-04 Client | ID: DUP Sample | |
| Solids, Total | 92.2 | 91.9 | % | 0 | 10 | |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103685 Report Date: 02/08/21

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Cooler

Α Absent В Absent

| Container Info | ormation | | Initial | Final | Temp | | | Frozen | |
|----------------|--|--------|---------|-------|-------|------|--------|-----------|--|
| Container ID | Container Type | Cooler | pН | рН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L2103685-01A | Metals Only-Glass 60mL/2oz unpreserved | В | NA | | 2.1 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),A2-TS(7),PB-TI(180),SE-TI(180),HG- T(28),CD-TI(180) |
| L2103685-02A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | TS(7) |
| L2103685-02B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD- TI(180) |
| L2103685-02C | Glass 120ml/4oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | NYCP51-PAH(14) |
| L2103685-02D | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8260(14) |
| L2103685-03A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | TS(7) |
| L2103685-03B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L2103685-03C | Glass 120ml/4oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-04A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | TS(7) |
| L2103685-04B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L2103685-04C | Glass 120ml/4oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-04D | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8260(14) |
| L2103685-05A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-05B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-05C | Glass 120ml/4oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-05D | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8260(14) |
| L2103685-06A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-06B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |



Lab Number: L2103685

Report Date: 02/08/21

Project Name: ELMWOOD+HERTEL

Project Number: P0564 004 004

Project Number: B0564-021-001

| Container Info | ormation | | Initial | Final | Temp | | | Frozen | |
|----------------|--|--------|---------|-------|------|------|--------|-----------|-----------------------------|
| Container ID | Container Type | Cooler | рН | pН | | Pres | Seal | Date/Time | Analysis(*) |
| L2103685-06C | Glass 120ml/4oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-07A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-07B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-07C | Glass 120ml/4oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-07D | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8260(14) |
| L2103685-08A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-08B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-08C | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-09A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-09B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-09C | Glass 120ml/4oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-10A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-10B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-10C | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-10D | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8260(14) |
| L2103685-11A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-11B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-11C | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-12A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-12B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-12C | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-12D | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8260(14) |
| L2103685-13A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-13B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-13C | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-14A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-14B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-14C | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |



Lab Number: L2103685

Report Date: 02/08/21

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

| Container Info | rmation | | Initial | Final | Temp | | | Frozen | |
|----------------|--|--------|---------|-------|-------|------|--------|-----------|------------------------------|
| Container ID | Container Type | Cooler | рН | pН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L2103685-14D | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8260(14) |
| L2103685-15A | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-15B | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM(),HOLD-8270(14) |
| L2103685-15C | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8260(14) |
| L2103685-16A | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-16B | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM(),HOLD-8270(14) |
| L2103685-17A | Vial Large Septa unpreserved (4oz) | В | NA | | 2.1 | Υ | Absent | | HOLD-8260(14),HOLD-WETCHEM() |
| L2103685-18A | Vial Large Septa unpreserved (4oz) | В | NA | | 2.1 | Υ | Absent | | HOLD-WETCHEM(),HOLD-8260(14) |
| L2103685-19A | Vial Large Septa unpreserved (4oz) | В | NA | | 2.1 | Υ | Absent | | HOLD-8260(14),HOLD-WETCHEM() |
| L2103685-20A | Plastic 2oz unpreserved for TS | Α | NA | | 3.6 | Υ | Absent | | HOLD-WETCHEM() |
| L2103685-20B | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2103685-20C | Glass 120ml/4oz unpreserved | Α | NA | | 3.6 | Υ | Absent | | HOLD-8270(14) |
| L2103685-20D | Vial Large Septa unpreserved (4oz) | Α | NA | | 3.6 | Υ | Absent | | HOLD-8260(14) |
| | | | | | | | | | |



GLOSSARY

Acronyms

EDL

EPA

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Fertimated Dataction Limit: This value represents the level to which target analyte concentrations are

 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).

Of I Arts using Solid-I hase interoextraction (SI ML).

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.

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.

Environmental Protection Agency.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content,

where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less

than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Footnotes

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

Terms

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a "Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Data Qualifiers

- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q -The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name:ELMWOOD+HERTELLab Number:L2103685Project Number:B0564-021-001Report Date:02/08/21

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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

LIMITATION OF LIABILITIES

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

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



ID No.:17873

Revision 17

Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Published Date: 4/28/2020 9:42:21 AM Title: Certificate/Approval Program Summary Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. **EPA 624.1**: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

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

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

| Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Coo Project Information Project Name: Flyyu Project Location: | per Ave, Suite 1 | teste) | Pag | e f A | | erable ASP- | Lab | 1 | 23 AS | SU THE | Billing | HA Job # LZ\G3\c89 Information Same as Client Info | |
|--|---|---|------------------|-------------------------|------------------------|-------------|--------|----------------|----------------------|--------------------|------------|--|-------------------------------|--|-----------------------|
| Client Information | THE RESERVE | Project # ROSCH - | - | 201 | | | 1 1 | Othe | | ·ne) | | ui5 (4 File) | PO# | | |
| Client: BENCHMC | L En | (Use Project name as Pro | | | | - | Regu | 0000 | District of the last | iremer | it | A 100 100 100 100 100 100 100 100 100 10 | Dispo | sal Site Information | Tiles |
| | Human Tungiler 14218 | Project Manager: ALPHAQuote #: | | Boron | | | | NY TO | | | □ NY | Part 375 CP-51 | Please | identify below location of able disposal facilities. | d . |
| Phone: (746) 81 | 8-8358 | Turn-Around Time | - TSSE | MARIN | | | | | stricte | | Oth | er | Dispos | al Facility: | |
| Email: TBehalleTi | in the lean | Standard Rush (only if pre approved) | | Due Date: # of Days: | | | lΗ | | | ted Use Dischar | | | | U NY Other: | |
| These samples have b | een previously analyz | red by Alpha | | | | | ANA | LYSIS | Ģ. | | | | Samp | ole Filtration | T |
| Other project specific | | Hold All A | mysiz | | | | Solds | 5-1 SVOC | ERA 8 MOTAS | 2260 | | | Prese | one ab to do ervation ab to do se Specify below) | o t a l B o t |
| ALPHA Lab ID (Lab Use Only) | Sa | ample ID | 20000 | ection | Sample | Sampler's | | cin | KE | 721 | | | | | t |
| The second secon | | 21: | Date | Time | Matrix | Initials | 1- | V | - | H | | | _ | e Specific Comments | е |
| 03685 -01 | TP-2 15- | | 1/21/21 | 832 | 50.1 | TUD | | | X | | | | Ho | 5 | 1 |
| -02 | | | 1 | 931 | 1 | | X | X | X | X | | | 1 | | 4 |
| -03 | | 0.5 44 | | 1012 | | | X | X | X | | | \perp | | | 3 |
| -04 | TP-5 1-3 | | | 1015 | | | X | X | × | X | | | | | 4 |
| -05 | TP-6 3-1 | | | llol | | | X | X | X | × | | | | | 4 |
| -06 | TC-7 0- | 0.5.5+ | | 1151 | | | X | X | X | | | | | | 3 |
| -07 | TP-8 4-6 | , ft | | 1240 | | | 2 | × | X | × | | | | | 4 |
| -08 | TP-9 0- | 6.5 4 | | 1255 | | | X | V | X | | | | | | 3 |
| -09 | TP-16 0- | 0.5 St | | 1325 | | | X | X | × | | | | | | 3 |
| -10 | TP-11 1- | 3 St | * | 1409 | 4 | | X | × | × | X | | | 1 | | 4 |
| Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ | Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup | Westboro: Certification No Mansfield: Certification No | | | | reservative | A | A | 4 | A | | | and not turr | ase print clearly, legib i completely. Samples be logged in and naround time clock will | oly s can |
| E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other Form No: 01-25 HC (rev. 30 | C = Cube O = Other E = Encore D = BOD Bottle | Relinquished B | y: AAC 1 | Date/ 1 22/21 | Time 1.303 1.370 | -5 | Receiv | | 197 | R | 1/2/2/ | te/Time / /303 0050 | res THI HA TO TEI | rt until any ambiguities olved. BY EXECUTING IS COC, THE CLIENT S READ AND AGREE BE BOUND BY ALPH RMS & CONDITIONS. the reverse side.) | IG F ES HA'S |

| Дена | NEW YORK CHAIN OF CUSTODY | Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W. Tonawanda, NY 14150: 275 Coo | ıy | 105 | Page | f 2 | | | Rec'o | 4 1 | 123 | 121 | III HISHINGSON | A Job# _210368 | _ |
|--|--|--|-----------------|------------|--------|-------------|--------|---------|------------------------|---------|-------|---------------|-----------------------------|---|----------------------------|
| Westborough, MA 01581 8 Walkup Dr. | Mansfield, MA 02048 320 Forbes Blvd | Project Information | SUN BY | | BEE | 10.4018 | Deliv | erable/ | :5 | Older. | | COVE | | nformation | |
| TEL: 508-898-9220 | TEL: 508-822-9300 | Project Name: 5 Aug. | + 1. | Hertel | | - | | ASP | A | | ПА | SP-B | STATE OF THE PARTY. | me as Client Info | |
| FAX: 508-898-9193 | FAX: 508-822-3288 | Project Location: Bulk | 1 | Juster | | | 1 = | | S (1 F | The V | _ | QuIS (4 File) | | mo do onem mo | |
| CONTROL PROPERTY AND ADDRESS OF THE PARTY AND | The same of the same of | The state of the s | | | | | 1 12 | | 1.00 | lie) | П | Quio (4 File) | PO# | | |
| Client Information | | Project # B6:564- | | 01 | | | | Othe | NAME OF TAXABLE PARTY. | | | | | | |
| Client: Benchmay | | (Use Project name as Pro | ject#) 🔼 | | | | Regu | ulatory | Requ | iremer | t | | Disposa | al Site Information | |
| Address: 2558 Ho | imby Thingle | Project Manager: | 15 | Boton | | | | NY TO | ogs | | □ N | / Part 375 | Please id | dentify below location | of |
| Laven NY | 14218 | ALPHAQuote #: | | | | | 1 🗆 | AWQ | Standa | irds | □ N | CP-51 | applicabl | le disposal facilities. | |
| Phone: (716) 818 | 8358 | Turn-Around Time | NOTE PER | Space . | Non- | | | NY R | estricte | d Use | По | her | Disposal | Facility: | |
| Fax: | | Standard | | Due Date: | | | 10 | NYII | nrostria | ted Use | _ | | □ NJ | | |
| Email: The welle | 11/1/1/1 | Rush (only if pre approved) | 17 111 | | | | | | | | | | E | | |
| | | | | # of Days: | | | | | | Dischar | ge . | | Oth | | Total Control |
| These samples have to | THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME | and the second s | | | | | ANA | LYSIS | | | | | Sample | Filtration | - 0 |
| Other project specifi Please specify Metal | H | old All And | lysis | | | | | 1 5voc | 48 | 210 | | | Don Lab Presen Lab | to do vation | t a l B o t |
| ALPHA Lab ID | | I- ID | Coll | lection | Sample | Sampler's | 1 | dop | 32 | Tel Vi | | | | | 1 |
| (Lab Use Only) | 58 | ample ID | Date | Time | Matrix | Initials | 12 | 9 | 8 | 121 | | | Sample | Specific Comments | e |
| 03685 - 11 | TP-12 b- | 0.5.41 | | 1420 | | | 1 | / | V | | _ | \rightarrow | 41,1 | - | 3 |
| -12 | | nors 0.5-3 ft | | | | | X | - | | X | - | | Hal | C | _ |
| THE RESIDENCE OF THE PARTY OF T | TP-13 0 | OI | | 1423 | | | X | X | X | ^ | - | | 1 | | 4 |
| - 13 | | -0.5ft | | 1426 | | | X | X | × | | | \perp | 1 | | 3 |
| -14 | | -1.0 ft | | 1501 | | | X | X | × | X | | | | | 14 |
| -15 | TP-14 0. | 5-2,084 | | 1515 | | | X | IX | X | X | | | | | 3 |
| -16 | TP-15 0 | -0.5 St | | 1545 | | | × | × | X | | | | | | 2 |
| -17 | TP-10 2 | - 4.5 PL | | 1323 | | G = === | | | | X | | | | | 1 |
| -18 | the state of the s | 2.5 Pt | | 1300 | | | | | | Ý | _ | - | _ | | - |
| -19 | | 0,5-264 | | 1544 | | | | | | 0 | - | | + | 1 | |
| | TP-7 1-3 | | | | | | 200 | | | X | _ | | + | | 1 |
| Preservative Code: | Container Code | | Dr. annother Li | 1145 | | | X | × | X | × | | | | ব | 4 |
| A = None B = HCI C = HNO ₃ D = H ₂ SO ₄ | P = Plastic A = Amber Glass V = Vial G = Glass | Westboro: Certification No Mansfield: Certification No | | | | tainer Type | | | | | + | | and c | se print clearly, legi completely. Sample e logged in and round time clock w | es can |
| E = NaOH | B = Bacteria Cup C = Cube | A. | | | | | | | | | | | | until any ambiguitie | |
| F = MeOH G = NaHSO ₄ | O = Other | Relinquished B | y; | Date/ | Time | 0 | Receiv | ved By | : | | , D | ate/Time | | ved. BY EXECUTION | |
| $H = Na_2S_2O_3$ | E = Encore | TO PER | | 1 22 21 | 1303 | Kn | _ | 1 | me | | 1/20/ | V 1303 | | COC, THE CLIEN READ AND AGRE | |
| K/E = Zn Ac/NaOH O = Other | D = BOD Bottle | Stor W | AC | 1/24/21 | 1340 | 2 | | | | | 1/zsp | 00.50 | TO B | E BOUND BY ALF | PHA'S |
| Form No: 01-25 HC (rev. 3 | 0-Sept-2013) | | | | | | | | | | | | (See | reverse side.) | |



ANALYTICAL REPORT

Lab Number: L2103699

Client: Benchmark & Turnkey Companies

2558 Hamburg Turnpike

Suite 300

Buffalo, NY 14218

ATTN: Chris Boron
Phone: (716) 856-0599

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Report Date: 01/29/21

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

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

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



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

 Lab Number:
 L2103699

 Report Date:
 01/29/21

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|------------------|--------|--------------------|----------------------|--------------|
| L2103699-01 | TP-1 1-2.5 FT | SOIL | BUFFALO, NY | 01/21/21 08:07 | 01/22/21 |
| L2103699-02 | TP-2 1.5-3 FT | SOIL | BUFFALO, NY | 01/21/21 08:32 | 01/22/21 |
| L2103699-03 | TP-4 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 09:27 | 01/22/21 |
| L2103699-04 | TP-6 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 11:02 | 01/22/21 |
| L2103699-05 | TP-8 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 12:48 | 01/22/21 |
| L2103699-06 | TP-9 1-2.5 FT | SOIL | BUFFALO, NY | 01/21/21 13:00 | 01/22/21 |
| L2103699-07 | TP-10 2-4.5 FT | SOIL | BUFFALO, NY | 01/21/21 13:22 | 01/22/21 |
| L2103699-08 | TP-11 0-0.5 FT | SOIL | BUFFALO, NY | 01/21/21 14:04 | 01/22/21 |
| L2103699-09 | TP-15 0.5-2.0 FT | SOIL | BUFFALO, NY | 01/21/21 15:48 | 01/22/21 |



Case Narrative

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

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

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

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

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

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



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

L2103699-02: The sample identified as "TP-2 1.5-3 FT" on the chain of custody was identified as "TP-2 1.5-2 FT" on the container label. At the client's request, the sample is reported as "TP-2 1.5-3 FT".

Volatile Organics

L2103699-02: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Total Metals

The WG1458390-4 Laboratory Duplicate RPDs for arsenic (33%), barium (36%), chromium (31%) and lead (24%), performed on L2103699-01, 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.

1 2 A Jennifer L Clements

Authorized Signature:

Title: Technical Director/Representative

Date: 01/29/21

ORGANICS



VOLATILES



Serial_No:01292112:08

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

SAMPLE RESULTS

Lab Number: L2103699

Report Date: 01/29/21

Lab ID: L2103699-02

Client ID: TP-2 1.5-3 FT Sample Location: BUFFALO, NY Date Received: 01/22/21 Not Specified

01/21/21 08:32

Field Prep:

Date Collected:

Sample Depth:

Matrix: Soil Analytical Method: 1,8260C Analytical Date: 01/26/21 15:24

Analyst: MKS 71% Percent Solids:

| Volatile Organics by GC/MS - Westborough Lab Methylene chloride ND 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 Carbon tetrachloropropane ND ug/kg 1.2 0.16 1 Dibromochloromethane ND ug/kg 1.2 0.18 1 1,1,2-Trichloropethane ND ug/kg 1.2 0.18 1 1,1,1-Trichloroethane ND ug/kg 1.2 0.18 1 1,1,1-Trichloroethane ND ug/kg 0.63 0.24 1 1,1,1-Trichloroethane ND ug/kg 0.0 0.87 1 1,1,1-Trichloroethane ND ug/kg 0.63 0.21 1 1,1,1-Trichloroethane ND ug/kg 0.63 0.21 1 <t< th=""><th>Parameter</th><th>Result</th><th>Qualifier</th><th>Units</th><th>RL</th><th>MDL</th><th>Dilution Factor</th></t<> | Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|------------------------------------|------------|-----------|-------|------|------|-----------------|
| 1,1-Dichloroethane ND ug/kg 1,2 0.18 1 Chloroform ND ug/kg 1,9 0.18 1 Carbon eterachloride 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 0.16 1 Dibromochloromethane ND ug/kg 1,2 0.18 1 1,1,2-Trichloroethane ND ug/kg 1,2 0.33 1 Tetrachloroethane ND ug/kg 0.63 0.24 1 Chlorobenzene ND ug/kg 0.63 0.16 1 Trichloroethane ND ug/kg 0.63 0.16 1 1,1,2-Dichloroethane ND ug/kg 0.63 0.14 1 Bromodichloromethane ND ug/kg 0.63 0.14 1 Bromoform ND ug/kg 0.63 0.21 | Volatile Organics by GC/MS - Westb | orough Lab | | | | | |
| 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 0.18 1 1,1,2-Trichloroethane ND ug/kg 1.2 0.33 1 1-trachloroethane ND ug/kg 0.63 0.24 1 1-trichloroethane ND ug/kg 5.0 0.87 1 1,2-Dichloroethane ND ug/kg 0.63 0.21 1 1,1-Trichloroethane ND ug/kg 0.63 0.21 1 Bromochromethane ND ug/kg 0.63 0.21 1 Bromochromethane ND ug/kg 0.63 0.21 1 Bromochromethane ND ug/kg 0.63 0 | Methylene chloride | ND | | ug/kg | 6.3 | 2.9 | 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 0.33 1 Tetrachloroethene 0.57 J ug/kg 0.63 0.24 1 Chlorobenzene ND ug/kg 0.63 0.16 1 Trichlorofluoromethane ND ug/kg 0.63 0.16 1 1,1,1-Trichloroethane ND ug/kg 0.63 0.21 1 Bromodichloromethane ND ug/kg 0.63 0.21 1 Bromodichloropropene ND ug/kg 0.63 0.21 1 Bromoform ND ug/kg 0.63 0.20 1 Bromoform ND ug/kg 0.63 0.21 1 1,1,2,2-Tetrachloroethane ND ug/kg | 1,1-Dichloroethane | ND | | ug/kg | 1.2 | 0.18 | 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 0.33 1 Tetrachloroethane 0.57 J ug/kg 0.63 0.24 1 Chlorobenzene ND ug/kg 0.63 0.16 1 Trichlorofluoromethane ND ug/kg 5.0 0.87 1 1,1-1-Trichloroethane ND ug/kg 0.63 0.21 1 1,1,1-Trichloroethane ND ug/kg 0.63 0.21 1 Bromodichloromethane ND ug/kg 0.63 0.21 1 Bromodichloropropene ND ug/kg 0.63 0.21 1 sis-1,3-Dichloropropene ND ug/kg 0.63 0.21 1 Bromoform ND ug/kg 0.63 0.21 1 1,1,2,2-Tetrachloroethane ND u | Chloroform | ND | | ug/kg | 1.9 | 0.18 | 1 |
| Dibromochloromethane ND ug/kg 1.2 0.18 1 1,1,2-Trichloroethane ND ug/kg 1.2 0.33 1 Tetrachloroethane 0.57 J ug/kg 0.63 0.24 1 Chlorobenzene ND ug/kg 0.63 0.16 1 Trichlorofluoromethane ND ug/kg 5.0 0.87 1 1,2-Dichloroethane ND ug/kg 1.2 0.32 1 1,1-Trichloroethane ND ug/kg 0.63 0.21 1 Bromodichloromethane ND ug/kg 0.63 0.21 1 Bromodichloromethane ND ug/kg 0.63 0.21 1 Bromoform ND ug/kg 0.63 0.21 1 Usis-1,3-Dichloropropene ND ug/kg 0.63 0.21 1 Bromoform ND ug/kg 0.63 0.21 1 Interpretable openate ND ug/kg | Carbon tetrachloride | ND | | ug/kg | 1.2 | 0.29 | 1 |
| 1,1,2-Trichloroethane ND ug/kg 1.2 0.33 1 Tetrachloroethane 0.57 J ug/kg 0.63 0.24 1 Chlorobenzene ND ug/kg 0.63 0.16 1 Trichlorofluoromethane ND ug/kg 5.0 0.87 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 0.21 1 Bromodichloropropene ND ug/kg 0.63 0.21 1 trans-1,3-Dichloropropene ND ug/kg 0.63 0.20 1 Bromoform ND ug/kg 0.63 0.21 1 Bromoform ND ug/kg 0.63 0.21 1 Tollene ND ug/kg 0.63 0.21 1 Tollene ND ug/kg 1.2 <t< td=""><td>1,2-Dichloropropane</td><td>ND</td><td></td><td>ug/kg</td><td>1.2</td><td>0.16</td><td>1</td></t<> | 1,2-Dichloropropane | ND | | ug/kg | 1.2 | 0.16 | 1 |
| Tetrachloroethene 0.57 J ug/kg 0.63 0.24 1 Chlorobenzene ND ug/kg 0.63 0.16 1 Trichlorofluoromethane ND ug/kg 5.0 0.87 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 Bromodichloropropene ND ug/kg 0.63 0.14 1 cis-1,3-Dichloropropene ND ug/kg 0.63 0.20 1 Bromoform ND ug/kg 0.63 0.20 1 Bromoform ND ug/kg 0.63 0.21 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 | Dibromochloromethane | ND | | ug/kg | 1.2 | 0.18 | 1 |
| Chlorobenzene ND ug/kg 0.63 0.16 1 Trichlorofluoromethane ND ug/kg 5.0 0.87 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 0.63 0.20 1 bromoform 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 0.63 0.21 1 Ethylbenzene ND ug/kg 1.2 0.68 1 Ethylbenzene ND ug/kg 5.0 1.2 1 | 1,1,2-Trichloroethane | ND | | ug/kg | 1.2 | 0.33 | 1 |
| Trichlorofluoromethane ND ug/kg 5.0 0.87 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 sci-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 0.63 0.21 1 Ethylbenzene ND ug/kg 1.2 0.68 1 Ethylbenzene ND ug/kg 5.0 1.2 1 Chloromethane ND ug/kg 2.5 0.73 | Tetrachloroethene | 0.57 | J | ug/kg | 0.63 | 0.24 | 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 Bromodichloropropene 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 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 ND 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 <td>Chlorobenzene</td> <td>ND</td> <td></td> <td>ug/kg</td> <td>0.63</td> <td>0.16</td> <td>1</td> | Chlorobenzene | ND | | ug/kg | 0.63 | 0.16 | 1 |
| 1,1,1-Trichloroethane ND | Trichlorofluoromethane | ND | | ug/kg | 5.0 | 0.87 | 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 ND 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 1.2 0.30 1 1,1-Dichloroethene ND ug/kg 1.9 0.17 1 <td>1,2-Dichloroethane</td> <td>ND</td> <td></td> <td>ug/kg</td> <td>1.2</td> <td>0.32</td> <td>1</td> | 1,2-Dichloroethane | ND | | ug/kg | 1.2 | 0.32 | 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 0.63 0.21 1 Toluene ND ug/kg 1.2 0.68 1 Ethylbenzene 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 5.0 1.2 1 Bromomethane ND ug/kg 5.0 1.2 1 Chloroethane ND ug/kg 2.5 0.73 1 Vinyl chloride ND ug/kg 1.2 0.42 1 Chloroethane ND ug/kg 1.2 0.42 1 Thildloroethane ND ug/kg 1.2 0.30 1 Trichloroethene ND ug/kg 1.2 0.30 1 Trichloroethene ND ug/kg 1.9 0.17 1 Trichloroethene ND ug/kg 1.9 0.17 1 | 1,1,1-Trichloroethane | ND | | ug/kg | 0.63 | 0.21 | 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 ND 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 <td>Bromodichloromethane</td> <td>ND</td> <td></td> <td>ug/kg</td> <td>0.63</td> <td>0.14</td> <td>1</td> | Bromodichloromethane | ND | | ug/kg | 0.63 | 0.14 | 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 ND 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 | trans-1,3-Dichloropropene | ND | | ug/kg | 1.2 | 0.34 | 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 ND 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 | cis-1,3-Dichloropropene | ND | | ug/kg | 0.63 | 0.20 | 1 |
| Benzene ND ug/kg 0.63 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 0.73 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 | Bromoform | ND | | ug/kg | 5.0 | 0.31 | 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 0.73 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 | 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.63 | 0.21 | 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 0.73 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 | Benzene | ND | | ug/kg | 0.63 | 0.21 | 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 | Toluene | ND | | ug/kg | 1.2 | 0.68 | 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 | Ethylbenzene | ND | | ug/kg | 1.2 | 0.18 | 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 | Chloromethane | ND | | ug/kg | 5.0 | 1.2 | 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 | Bromomethane | ND | | ug/kg | 2.5 | 0.73 | 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 | Vinyl chloride | ND | | ug/kg | 1.2 | 0.42 | 1 |
| trans-1,2-Dichloroethene ND ug/kg 1.9 0.17 1 Trichloroethene ND ug/kg 0.63 0.17 1 | Chloroethane | ND | | ug/kg | 2.5 | 0.57 | 1 |
| Trichloroethene ND ug/kg 0.63 0.17 1 | 1,1-Dichloroethene | ND | | ug/kg | 1.2 | 0.30 | 1 |
| | trans-1,2-Dichloroethene | ND | | ug/kg | 1.9 | 0.17 | 1 |
| 1.2-Dichlorobenzene ND ug/kg 2.5 0.18 1 | Trichloroethene | ND | | ug/kg | 0.63 | 0.17 | 1 |
| TAB USING 2.0 0.10 I | 1,2-Dichlorobenzene | ND | | ug/kg | 2.5 | 0.18 | 1 |



Serial_No:01292112:08

Project Name: ELMWOOD+HERTEL Lab Number: L2103699

Project Number: B0564-021-001 **Report Date:** 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-02 Date Collected: 01/21/21 08:32

Client ID: TP-2 1.5-3 FT Date Received: 01/22/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westboroug | gh 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 | 18 | | 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 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.8 | 1.2 | 1 |
| Isopropylbenzene | ND | | ug/kg | 1.2 | 0.14 | 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 |
| Methyl Acetate | ND | | ug/kg | 5.0 | 1.2 | 1 |
| Cyclohexane | ND | | ug/kg | 12 | 0.68 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 100 | 44. | 1 |
| Freon-113 | ND | | ug/kg | 5.0 | 0.87 | 1 |
| Methyl cyclohexane | ND | | ug/kg | 5.0 | 0.76 | 1 |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 93 | 70-130 | |
| Toluene-d8 | 104 | 70-130 | |
| 4-Bromofluorobenzene | 107 | 70-130 | |
| Dibromofluoromethane | 89 | 70-130 | |



Project Name: ELMWOOD+HERTEL Lab Number: L2103699

Project Number: B0564-021-001 **Report Date:** 01/29/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 01/26/21 08:09

Analyst: MV

| arameter | Result | Qualifier | Units | RL | | MDL |
|----------------------------------|------------|------------|--------------|------|--------|-------------|
| olatile Organics by EPA 5035 Low | - Westboro | ugh Lab fo | r sample(s): | 02 | Batch: | WG1458869-5 |
| Methylene chloride | ND | | ug/kg | 5.0 | | 2.3 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.0 | | 0.14 |
| Chloroform | 0.19 | J | ug/kg | 1.5 | | 0.14 |
| Carbon tetrachloride | ND | | ug/kg | 1.0 | | 0.23 |
| 1,2-Dichloropropane | ND | | ug/kg | 1.0 | | 0.12 |
| Dibromochloromethane | ND | | ug/kg | 1.0 | | 0.14 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.0 | | 0.27 |
| Tetrachloroethene | ND | | ug/kg | 0.50 | | 0.20 |
| Chlorobenzene | ND | | ug/kg | 0.50 | | 0.13 |
| Trichlorofluoromethane | ND | | ug/kg | 4.0 | | 0.70 |
| 1,2-Dichloroethane | ND | | ug/kg | 1.0 | | 0.26 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.50 | | 0.17 |
| Bromodichloromethane | ND | | ug/kg | 0.50 | | 0.11 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 1.0 | | 0.27 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.50 | | 0.16 |
| Bromoform | ND | | ug/kg | 4.0 | | 0.25 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.50 | | 0.17 |
| Benzene | ND | | ug/kg | 0.50 | | 0.17 |
| Toluene | ND | | ug/kg | 1.0 | | 0.54 |
| Ethylbenzene | ND | | ug/kg | 1.0 | | 0.14 |
| Chloromethane | ND | | ug/kg | 4.0 | | 0.93 |
| Bromomethane | 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: ELMWOOD+HERTEL Lab Number: L2103699

Project Number: B0564-021-001 **Report Date:** 01/29/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 01/26/21 08:09

Analyst: MV

| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1458869-5 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 0.29 cis-1,2-Dichloroethene ND ug/kg 1.0 0.20 Dichlorodfluoromethane ND ug/kg 1.0 0.20 Dichlorodfluoromethane ND ug/kg 10 4.8 Carbon disulfide ND ug/kg 10 4.6 2-Butanone 2.3 J ug/kg 10 1.3 2-Hexanone ND ug/kg 10 1.2 Bromochloromethane ND ug/kg 1.0 0.28 1,2-Dibromo-3-chloropropane ND ug/kg 1.0 0.11 1soprop | arameter | Result | Qualifier | Units | RL | | MDL |
|--|----------------------------------|------------|------------|--------------|-----|--------|-------------|
| 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 0.20 Styrene ND ug/kg 1.0 0.20 Dichlorodifluoromethane ND ug/kg 10 0.92 Acetone 8.7 J ug/kg 10 4.8 Carbon disulfide ND ug/kg 10 4.6 2-Butanone 2.3 J 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-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND | olatile Organics by EPA 5035 Low | - Westboro | ugh Lab fo | r sample(s): | 02 | Batch: | WG1458869-5 |
| 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 8.7 J ug/kg 10 4.8 Carbon disulfide ND ug/kg 10 4.6 2-Butanone 2.3 J 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-Dibromo-3-chloropropane ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND <t< td=""><td>1,4-Dichlorobenzene</td><td>ND</td><td></td><td>ug/kg</td><td>2.0</td><td></td><td>0.17</td></t<> | 1,4-Dichlorobenzene | ND | | ug/kg | 2.0 | | 0.17 |
| 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 8.7 J ug/kg 10 4.8 Carbon disulfide ND ug/kg 10 4.6 2-Butanone 2.3 J 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-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/k | Methyl tert butyl ether | ND | | ug/kg | 2.0 | | 0.20 |
| 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 8.7 J ug/kg 10 4.8 Carbon disulfide ND ug/kg 10 4.6 2-Butanone 2.3 J 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-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND | p/m-Xylene | ND | | ug/kg | 2.0 | | 0.56 |
| Styrene ND ug/kg 1.0 0.20 Dichlorodifluoromethane ND ug/kg 10 0.92 Acetone 8.7 J ug/kg 10 4.8 Carbon disulfide ND ug/kg 10 4.6 2-Butanone 2.3 J 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-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 4.0 0.95 Occlohexane ND u | o-Xylene | ND | | ug/kg | 1.0 | | 0.29 |
| Dichlorodifluoromethane ND ug/kg 10 0.92 Acetone 8.7 J ug/kg 10 4.8 Carbon disulfide ND ug/kg 10 4.6 2-Butanone 2.3 J ug/kg 10 2.2 4-Methyl-2-pentanone ND ug/kg 10 1.3 2-Hexanone ND ug/kg 10 1.2 Bromochloromethane ND ug/kg 2.0 0.20 1,2-Dibromoethane ND ug/kg 1.0 0.28 1,2-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 80 35. | cis-1,2-Dichloroethene | ND | | ug/kg | 1.0 | | 0.18 |
| Acetone 8.7 J ug/kg 10 4.8 Carbon disulfide ND ug/kg 10 4.6 2-Butanone 2.3 J ug/kg 10 2.2 4-Methyl-2-pentanone ND ug/kg 10 1.3 2-Hexanone ND ug/kg 10 1.2 Bromochloromethane ND ug/kg 2.0 0.20 1,2-Dibromoethane ND ug/kg 1.0 0.28 1,2-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 2.0 0.31 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 80 35. | Styrene | ND | | ug/kg | 1.0 | | 0.20 |
| Carbon disulfide ND ug/kg 10 4.6 2-Butanone 2.3 J ug/kg 10 2.2 4-Methyl-2-pentanone ND ug/kg 10 1.3 2-Hexanone ND ug/kg 10 1.2 Bromochloromethane ND ug/kg 2.0 0.20 1,2-Dibromoethane ND ug/kg 1.0 0.28 1,2-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | Dichlorodifluoromethane | ND | | ug/kg | 10 | | 0.92 |
| 2-Butanone 2.3 J ug/kg 10 2.2 4-Methyl-2-pentanone ND ug/kg 10 1.3 2-Hexanone ND ug/kg 10 1.2 Bromochloromethane ND ug/kg 2.0 0.20 1,2-Dibromoethane ND ug/kg 1.0 0.28 1,2-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35 | Acetone | 8.7 | J | ug/kg | 10 | | 4.8 |
| 4-Methyl-2-pentanone ND ug/kg 10 1.3 2-Hexanone ND ug/kg 10 1.2 Bromochloromethane ND ug/kg 2.0 0.20 1,2-Dibromoethane ND ug/kg 1.0 0.28 1,2-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | Carbon disulfide | ND | | ug/kg | 10 | | 4.6 |
| 2-Hexanone ND ug/kg 10 1.2 Bromochloromethane ND ug/kg 2.0 0.20 1,2-Dibromoethane ND ug/kg 1.0 0.28 1,2-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | 2-Butanone | 2.3 | J | ug/kg | 10 | | 2.2 |
| Bromochloromethane ND ug/kg 2.0 0.20 1,2-Dibromoethane ND ug/kg 1.0 0.28 1,2-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | 4-Methyl-2-pentanone | ND | | ug/kg | 10 | | 1.3 |
| 1,2-Dibromoethane ND ug/kg 1.0 0.28 1,2-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | 2-Hexanone | ND | | ug/kg | 10 | | 1.2 |
| 1,2-Dibromo-3-chloropropane ND ug/kg 3.0 1.0 Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | Bromochloromethane | ND | | ug/kg | 2.0 | | 0.20 |
| Isopropylbenzene ND ug/kg 1.0 0.11 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | 1,2-Dibromoethane | ND | | ug/kg | 1.0 | | 0.28 |
| 1,2,3-Trichlorobenzene ND ug/kg 2.0 0.32 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.0 | | 1.0 |
| 1,2,4-Trichlorobenzene ND ug/kg 2.0 0.27 Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | Isopropylbenzene | ND | | ug/kg | 1.0 | | 0.11 |
| Methyl Acetate ND ug/kg 4.0 0.95 Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | 1,2,3-Trichlorobenzene | ND | | ug/kg | 2.0 | | 0.32 |
| Cyclohexane ND ug/kg 10 0.54 1,4-Dioxane ND ug/kg 80 35. | 1,2,4-Trichlorobenzene | ND | | ug/kg | 2.0 | | 0.27 |
| 1,4-Dioxane ND ug/kg 80 35. | Methyl Acetate | ND | | ug/kg | 4.0 | | 0.95 |
| , | Cyclohexane | ND | | ug/kg | 10 | | 0.54 |
| Freon-113 ND ug/kg 4.0 0.69 | 1,4-Dioxane | ND | | ug/kg | 80 | | 35. |
| | Freon-113 | ND | | ug/kg | 4.0 | | 0.69 |
| Methyl cyclohexane ND ug/kg 4.0 0.60 | Methyl cyclohexane | ND | | ug/kg | 4.0 | | 0.60 |



Project Name: ELMWOOD+HERTEL Lab Number: L2103699

Project Number: B0564-021-001 **Report Date:** 01/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 01/26/21 08:09

Analyst: MV

Parameter Result Qualifier Units RL MDL

Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1458869-5

| | | | Acceptance |
|-----------------------|-----------|-----------|------------|
| Surrogate | %Recovery | Qualifier | Criteria |
| | | | |
| 1,2-Dichloroethane-d4 | 90 | | 70-130 |
| Toluene-d8 | 91 | | 70-130 |
| 4-Bromofluorobenzene | 86 | | 70-130 |
| Dibromofluoromethane | 87 | | 70-130 |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103699

Report Date: 01/29/21

| Parameter | LCS %Recovery | Qual | LCSI %Recov | | Qual | %Recovery Limits | RPD | RPD Limits |
|--|------------------|------------------|----------------|--------|----------|---------------------|------|---------------|
| olatile Organics by EPA 5035 Low - Westb | orough Lab Ass | ociated sample(s | s): 02 | Batch: | WG145886 | 69-3 WG14588 | 69-4 | |
| Methylene chloride | 82 | | 81 | | | 70-130 | 1 | 30 |
| 1,1-Dichloroethane | 88 | | 86 | | | 70-130 | 2 | 30 |
| Chloroform | 86 | | 87 | | | 70-130 | 1 | 30 |
| Carbon tetrachloride | 88 | | 91 | | | 70-130 | 3 | 30 |
| 1,2-Dichloropropane | 87 | | 89 | | | 70-130 | 2 | 30 |
| Dibromochloromethane | 86 | | 89 | | | 70-130 | 3 | 30 |
| 1,1,2-Trichloroethane | 98 | | 98 | | | 70-130 | 0 | 30 |
| Tetrachloroethene | 95 | | 94 | | | 70-130 | 1 | 30 |
| Chlorobenzene | 98 | | 97 | | | 70-130 | 1 | 30 |
| Trichlorofluoromethane | 85 | | 85 | | | 70-139 | 0 | 30 |
| 1,2-Dichloroethane | 93 | | 94 | | | 70-130 | 1 | 30 |
| 1,1,1-Trichloroethane | 89 | | 90 | | | 70-130 | 1 | 30 |
| Bromodichloromethane | 90 | | 93 | | | 70-130 | 3 | 30 |
| trans-1,3-Dichloropropene | 100 | | 100 | | | 70-130 | 0 | 30 |
| cis-1,3-Dichloropropene | 91 | | 92 | | | 70-130 | 1 | 30 |
| Bromoform | 91 | | 96 | | | 70-130 | 5 | 30 |
| 1,1,2,2-Tetrachloroethane | 108 | | 107 | | | 70-130 | 1 | 30 |
| Benzene | 89 | | 88 | | | 70-130 | 1 | 30 |
| Toluene | 95 | | 93 | | | 70-130 | 2 | 30 |
| Ethylbenzene | 98 | | 97 | | | 70-130 | 1 | 30 |
| Chloromethane | 57 | | 58 | | | 52-130 | 2 | 30 |
| Bromomethane | 50 | Q | 56 | | Q | 57-147 | 11 | 30 |
| Vinyl chloride | 93 | | 91 | | | 67-130 | 2 | 30 |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103699

Report Date: 01/29/21

| arameter | %Recovery | LCSI Qual %Reco | , | - | RPD Qual Limits |
|--|----------------|-----------------------|----------------------|-------------|--------------------|
| platile Organics by EPA 5035 Low - Westb | orough Lab Ass | ociated sample(s): 02 | Batch: WG1458869-3 V | VG1458869-4 | |
| Chloroethane | 85 | 84 | 50-1 | 51 1 | 30 |
| 1,1-Dichloroethene | 82 | 81 | 65-1 | 35 1 | 30 |
| trans-1,2-Dichloroethene | 85 | 83 | 70-1 | 30 2 | 30 |
| Trichloroethene | 90 | 89 | 70-1 | 30 1 | 30 |
| 1,2-Dichlorobenzene | 100 | 100 | 70-1 | 30 0 | 30 |
| 1,3-Dichlorobenzene | 101 | 101 | 70-1 | 30 0 | 30 |
| 1,4-Dichlorobenzene | 102 | 102 | ? 70-1 | 30 0 | 30 |
| Methyl tert butyl ether | 87 | 87 | 66-1 | 30 0 | 30 |
| p/m-Xylene | 101 | 100 | 70-1 | 30 1 | 30 |
| o-Xylene | 103 | 102 | ? 70-1 | 30 1 | 30 |
| cis-1,2-Dichloroethene | 85 | 84 | 70-1 | 30 1 | 30 |
| Styrene | 105 | 105 | 70-1 | 30 0 | 30 |
| Dichlorodifluoromethane | 68 | 67 | 30-1 | 46 1 | 30 |
| Acetone | 118 | 114 | 54-1 | 40 3 | 30 |
| Carbon disulfide | 88 | 86 | 59-1 | 30 2 | 30 |
| 2-Butanone | 96 | 94 | 70-1 | 30 2 | 30 |
| 4-Methyl-2-pentanone | 110 | 108 | 70-1 | 30 2 | 30 |
| 2-Hexanone | 104 | 104 | 70-1 | 30 0 | 30 |
| Bromochloromethane | 87 | 90 | 70-1 | 30 3 | 30 |
| 1,2-Dibromoethane | 102 | 102 | ? 70-1 | 30 0 | 30 |
| 1,2-Dibromo-3-chloropropane | 89 | 89 | 68-1 | 30 0 | 30 |
| Isopropylbenzene | 101 | 99 | 70-1 | 30 2 | 30 |
| 1,2,3-Trichlorobenzene | 104 | 104 | 70-1 | 30 0 | 30 |



Project Name: ELMWOOD+HERTEL

Lab Number:

L2103699

Project Number: B0564-021-001

Report Date:

01/29/21

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|---------------|-------------------|-----------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westbor | ough Lab Asso | ciated sample | (s): 02 Batch | : WG14588 | 69-3 WG145886 | 9-4 | | |
| 1,2,4-Trichlorobenzene | 106 | | 103 | | 70-130 | 3 | | 30 |
| Methyl Acetate | 83 | | 84 | | 51-146 | 1 | | 30 |
| Cyclohexane | 85 | | 85 | | 59-142 | 0 | | 30 |
| 1,4-Dioxane | 100 | | 97 | | 65-136 | 3 | | 30 |
| Freon-113 | 83 | | 83 | | 50-139 | 0 | | 30 |
| Methyl cyclohexane | 86 | | 84 | | 70-130 | 2 | | 30 |

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|-----------------------|-----------------------|------------------------|------------------------|
| 1,2-Dichloroethane-d4 | 91 | 91 | 70-130 |
| Toluene-d8 | 91 | 90 | 70-130 |
| 4-Bromofluorobenzene | 88 | 86 | 70-130 |
| Dibromofluoromethane | 85 | 87 | 70-130 |

SEMIVOLATILES



Project Name: ELMWOOD+HERTEL Lab Number: L2103699

Project Number: B0564-021-001 **Report Date:** 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-01 Date Collected: 01/21/21 08:07

Client ID: TP-1 1-2.5 FT Date Received: 01/22/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Percent Solids:

85%

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270D Extraction Date: 01/25/21 18:15

Analytical Date: 01/27/21 09:08
Analyst: ALS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-------------------------------------|----------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - We | estborough Lab | | | | | |
| Acenaphthene | ND | | ug/kg | 150 | 20. | 1 |
| Fluoranthene | 160 | | ug/kg | 110 | 22. | 1 |
| Naphthalene | 760 | | ug/kg | 190 | 23. | 1 |
| Benzo(a)anthracene | 110 | | ug/kg | 110 | 21. | 1 |
| Benzo(a)pyrene | 88 | J | ug/kg | 150 | 46. | 1 |
| Benzo(b)fluoranthene | 120 | | ug/kg | 110 | 32. | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 110 | 30. | 1 |
| Chrysene | 180 | | ug/kg | 110 | 20. | 1 |
| Acenaphthylene | ND | | ug/kg | 150 | 29. | 1 |
| Anthracene | ND | | ug/kg | 110 | 37. | 1 |
| Benzo(ghi)perylene | 47 | J | ug/kg | 150 | 22. | 1 |
| Fluorene | 56 | J | ug/kg | 190 | 18. | 1 |
| Phenanthrene | 700 | | ug/kg | 110 | 23. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 110 | 22. | 1 |
| Indeno(1,2,3-cd)pyrene | 35 | J | ug/kg | 150 | 26. | 1 |
| Pyrene | 140 | | ug/kg | 110 | 19. | 1 |
| | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 89 | 23-120 | |
| 2-Fluorobiphenyl | 70 | 30-120 | |
| 4-Terphenyl-d14 | 69 | 18-120 | |



Project Name: ELMWOOD+HERTEL Lab Number: L2103699

Project Number: B0564-021-001 **Report Date:** 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-02 Date Collected: 01/21/21 08:32

Client ID: TP-2 1.5-3 FT Date Received: 01/22/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270D Extraction Date: 01/25/21 18:15

Analytical Date: 01/27/21 12:18

Analyst: ALS Percent Solids: 71%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|-------------------------------------|----------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - We | estborough Lab | | | | | | |
| Acenaphthene | 88 | J | ug/kg | 190 | 24. | 1 | |
| Fluoranthene | 1100 | | ug/kg | 140 | 27. | 1 | |
| Naphthalene | 140 | J | ug/kg | 230 | 28. | 1 | |
| Benzo(a)anthracene | 580 | | ug/kg | 140 | 26. | 1 | |
| Benzo(a)pyrene | 600 | | ug/kg | 190 | 57. | 1 | |
| Benzo(b)fluoranthene | 750 | | ug/kg | 140 | 39. | 1 | |
| Benzo(k)fluoranthene | 180 | | ug/kg | 140 | 37. | 1 | |
| Chrysene | 520 | | ug/kg | 140 | 24. | 1 | |
| Acenaphthylene | ND | | ug/kg | 190 | 36. | 1 | |
| Anthracene | 210 | | ug/kg | 140 | 45. | 1 | |
| Benzo(ghi)perylene | 300 | | ug/kg | 190 | 27. | 1 | |
| Fluorene | 87 | J | ug/kg | 230 | 23. | 1 | |
| Phenanthrene | 820 | | ug/kg | 140 | 28. | 1 | |
| Dibenzo(a,h)anthracene | 80 | J | ug/kg | 140 | 27. | 1 | |
| Indeno(1,2,3-cd)pyrene | 340 | | ug/kg | 190 | 32. | 1 | |
| Pyrene | 860 | | ug/kg | 140 | 23. | 1 | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5 | 83 | | 23-120 | |
| 2-Fluorobiphenyl | 66 | | 30-120 | |
| 4-Terphenyl-d14 | 61 | | 18-120 | |



Project Name: ELMWOOD+HERTEL Lab Number: L2103699

Project Number: B0564-021-001 **Report Date:** 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-03 Date Collected: 01/21/21 09:27

Client ID: TP-4 0-0.5 FT Date Received: 01/22/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270D Extraction Date: 01/25/21 18:15

Analytical Date: 01/27/21 11:54

Analyst: ALS Percent Solids: 73%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|--------------------------------------|---------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - Wes | stborough Lab | | | | | | |
| Acenaphthene | 43 | J | ug/kg | 180 | 23. | 1 | |
| Fluoranthene | 890 | | ug/kg | 130 | 26. | 1 | |
| Naphthalene | 220 | | ug/kg | 220 | 27. | 1 | |
| Benzo(a)anthracene | 470 | | ug/kg | 130 | 25. | 1 | |
| Benzo(a)pyrene | 560 | | ug/kg | 180 | 54. | 1 | |
| Benzo(b)fluoranthene | 720 | | ug/kg | 130 | 37. | 1 | |
| Benzo(k)fluoranthene | 210 | | ug/kg | 130 | 36. | 1 | |
| Chrysene | 530 | | ug/kg | 130 | 23. | 1 | |
| Acenaphthylene | 60 | J | ug/kg | 180 | 34. | 1 | |
| Anthracene | 100 | J | ug/kg | 130 | 43. | 1 | |
| Benzo(ghi)perylene | 320 | | ug/kg | 180 | 26. | 1 | |
| Fluorene | 49 | J | ug/kg | 220 | 22. | 1 | |
| Phenanthrene | 700 | | ug/kg | 130 | 27. | 1 | |
| Dibenzo(a,h)anthracene | 80 | J | ug/kg | 130 | 26. | 1 | |
| Indeno(1,2,3-cd)pyrene | 340 | | ug/kg | 180 | 31. | 1 | |
| Pyrene | 770 | | ug/kg | 130 | 22. | 1 | |

| Surrogate | % Recovery | Ao Qualifier | cceptance Criteria |
|------------------|------------|-----------------|-----------------------|
| Nitrobenzene-d5 | 92 | | 23-120 |
| 2-Fluorobiphenyl | 68 | | 30-120 |
| 4-Terphenyl-d14 | 62 | | 18-120 |



L2103699

Project Name: Lab Number: **ELMWOOD+HERTEL**

Project Number: Report Date: B0564-021-001 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-04 Date Collected: 01/21/21 11:02

Date Received: 01/22/21 Client ID: TP-6 0-0.5 FT Sample Location: Field Prep: BUFFALO, NY Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 01/25/21 18:15 Analytical Method: 1,8270D

Analytical Date: 01/27/21 14:01

Analyst: JG 75% Percent Solids:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|-------------------------------------|----------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - We | estborough Lab | | | | | | |
| Acenaphthene | 48 | J | ug/kg | 180 | 23. | 1 | |
| Fluoranthene | 320 | | ug/kg | 130 | 25. | 1 | |
| Naphthalene | 230 | | ug/kg | 220 | 27. | 1 | |
| Benzo(a)anthracene | 150 | | ug/kg | 130 | 25. | 1 | |
| Benzo(a)pyrene | 140 | J | ug/kg | 180 | 54. | 1 | |
| Benzo(b)fluoranthene | 190 | | ug/kg | 130 | 37. | 1 | |
| Benzo(k)fluoranthene | 61 | J | ug/kg | 130 | 35. | 1 | |
| Chrysene | 150 | | ug/kg | 130 | 23. | 1 | |
| Acenaphthylene | ND | | ug/kg | 180 | 34. | 1 | |
| Anthracene | 44 | J | ug/kg | 130 | 43. | 1 | |
| Benzo(ghi)perylene | 93 | J | ug/kg | 180 | 26. | 1 | |
| Fluorene | 37 | J | ug/kg | 220 | 21. | 1 | |
| Phenanthrene | 230 | | ug/kg | 130 | 27. | 1 | |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 130 | 25. | 1 | |
| Indeno(1,2,3-cd)pyrene | 99 | J | ug/kg | 180 | 31. | 1 | |
| Pyrene | 270 | | ug/kg | 130 | 22. | 1 | |

| Surrogate | % Recovery | Qualifier A | Acceptance Criteria | |
|------------------|------------|-------------|------------------------|--|
| Nitrobenzene-d5 | 78 | | 23-120 | |
| 2-Fluorobiphenyl | 80 | | 30-120 | |
| 4-Terphenyl-d14 | 73 | | 18-120 | |



L2103699

Lab Number:

Project Name: ELMWOOD+HERTEL

Project Number: Report Date: B0564-021-001

01/29/21

SAMPLE RESULTS

Lab ID: Date Collected: 01/21/21 12:48 L2103699-05

Date Received: Client ID: TP-8 0-0.5 FT 01/22/21 Sample Location: Field Prep: BUFFALO, NY Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 01/25/21 18:15 Analytical Method: 1,8270D

Analytical Date: 01/27/21 08:45

Analyst: **ALS** 81% Percent Solids:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|-----------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westbo | rough Lab | | | | | |
| Acenaphthene | 24 | J | ug/kg | 160 | 21. | 1 |
| Fluoranthene | 360 | | ug/kg | 120 | 23. | 1 |
| Naphthalene | 33 | J | ug/kg | 200 | 25. | 1 |
| Benzo(a)anthracene | 190 | | ug/kg | 120 | 23. | 1 |
| Benzo(a)pyrene | 220 | | ug/kg | 160 | 50. | 1 |
| Benzo(b)fluoranthene | 300 | | ug/kg | 120 | 34. | 1 |
| Benzo(k)fluoranthene | 77 | J | ug/kg | 120 | 33. | 1 |
| Chrysene | 190 | | ug/kg | 120 | 21. | 1 |
| Acenaphthylene | ND | | ug/kg | 160 | 32. | 1 |
| Anthracene | 50 | J | ug/kg | 120 | 40. | 1 |
| Benzo(ghi)perylene | 120 | J | ug/kg | 160 | 24. | 1 |
| Fluorene | 21 | J | ug/kg | 200 | 20. | 1 |
| Phenanthrene | 230 | | ug/kg | 120 | 25. | 1 |
| Dibenzo(a,h)anthracene | 31 | J | ug/kg | 120 | 24. | 1 |
| Indeno(1,2,3-cd)pyrene | 130 | J | ug/kg | 160 | 28. | 1 |
| Pyrene | 280 | | ug/kg | 120 | 20. | 1 |

| Surrogate | % Recovery | eptance criteria |
|------------------|------------|---------------------|
| Nitrobenzene-d5 | 94 | 23-120 |
| 2-Fluorobiphenyl | 68 | 30-120 |
| 4-Terphenyl-d14 | 60 | 18-120 |



Project Name: ELMWOOD+HERTEL Lab Number: L2103699

Project Number: B0564-021-001 **Report Date:** 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-06 Date Collected: 01/21/21 13:00

Client ID: TP-9 1-2.5 FT Date Received: 01/22/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270D Extraction Date: 01/26/21 12:18

Analytical Date: 01/27/21 12:24

Analyst: JG Percent Solids: 85%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|--------------------------------------|--------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - Wes | tborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 160 | 20. | 1 | |
| Fluoranthene | 130 | | ug/kg | 120 | 22. | 1 | |
| Naphthalene | ND | | ug/kg | 200 | 24. | 1 | |
| Benzo(a)anthracene | 67 | J | ug/kg | 120 | 22. | 1 | |
| Benzo(a)pyrene | 48 | J | ug/kg | 160 | 48. | 1 | |
| Benzo(b)fluoranthene | 66 | J | ug/kg | 120 | 33. | 1 | |
| Benzo(k)fluoranthene | ND | | ug/kg | 120 | 31. | 1 | |
| Chrysene | 50 | J | ug/kg | 120 | 20. | 1 | |
| Acenaphthylene | ND | | ug/kg | 160 | 30. | 1 | |
| Anthracene | ND | | ug/kg | 120 | 38. | 1 | |
| Benzo(ghi)perylene | 29 | J | ug/kg | 160 | 23. | 1 | |
| Fluorene | ND | | ug/kg | 200 | 19. | 1 | |
| Phenanthrene | 130 | | ug/kg | 120 | 24. | 1 | |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 120 | 23. | 1 | |
| Indeno(1,2,3-cd)pyrene | 31 | J | ug/kg | 160 | 27. | 1 | |
| Pyrene | 100 | J | ug/kg | 120 | 20. | 1 | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 49 | 23-120 | |
| 2-Fluorobiphenyl | 57 | 30-120 | |
| 4-Terphenyl-d14 | 57 | 18-120 | |



L2103699

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

SAMPLE RESULTS

Date Collected: 01/21/21 13:22

Report Date: 01/29/21

Lab Number:

Lab ID: L2103699-07 Client ID: TP-10 2-4.5 FT

Sample Location: BUFFALO, NY

Date Received: 01/22/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/27/21 10:43

Analyst: ALS Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 01/25/21 18:15

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|------------------------------------|----------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - W | estborough Lab | | | | | | |
| Acenaphthene | 89 | J | ug/kg | 150 | 19. | 1 | |
| Fluoranthene | 690 | | ug/kg | 110 | 21. | 1 | |
| Naphthalene | 41 | J | ug/kg | 180 | 22. | 1 | |
| Benzo(a)anthracene | 350 | | ug/kg | 110 | 21. | 1 | |
| Benzo(a)pyrene | 410 | | ug/kg | 150 | 45. | 1 | |
| Benzo(b)fluoranthene | 500 | | ug/kg | 110 | 31. | 1 | |
| Benzo(k)fluoranthene | 140 | | ug/kg | 110 | 30. | 1 | |
| Chrysene | 330 | | ug/kg | 110 | 19. | 1 | |
| Acenaphthylene | ND | | ug/kg | 150 | 28. | 1 | |
| Anthracene | 180 | | ug/kg | 110 | 36. | 1 | |
| Benzo(ghi)perylene | 220 | | ug/kg | 150 | 22. | 1 | |
| Fluorene | 94 | J | ug/kg | 180 | 18. | 1 | |
| Phenanthrene | 650 | | ug/kg | 110 | 22. | 1 | |
| Dibenzo(a,h)anthracene | 60 | J | ug/kg | 110 | 21. | 1 | |
| Indeno(1,2,3-cd)pyrene | 250 | | ug/kg | 150 | 26. | 1 | |
| Pyrene | 560 | | ug/kg | 110 | 18. | 1 | |
| | | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 81 | 23-120 | |
| 2-Fluorobiphenyl | 59 | 30-120 | |
| 4-Terphenyl-d14 | 50 | 18-120 | |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

SAMPLE RESULTS

Report Date:

01/29/21

Lab ID: L2103699-08

Client ID: TP-11 0-0.5 FT Sample Location: BUFFALO, NY

Date Collected: 01/21/21 14:04 Date Received: 01/22/21

Field Prep:

Lab Number:

Not Specified

L2103699

Sample Depth:

Matrix: Soil Analytical Method: 1,8270D Analytical Date: 01/27/21 09:56

Analyst: **ALS** 74% Percent Solids:

Extraction Method: EPA 3546 **Extraction Date:** 01/25/21 18:15

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|-----------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westbo | rough Lab | | | | | |
| Acenaphthene | 28 | J | ug/kg | 180 | 23. | 1 |
| Fluoranthene | 440 | <u> </u> | ug/kg | 130 | 26. | 1 |
| Naphthalene | ND | | ug/kg | 220 | 27. | 1 |
| Benzo(a)anthracene | 220 | | ug/kg | 130 | 25. | 1 |
| Benzo(a)pyrene | 260 | | ug/kg | 180 | 54. | 1 |
| Benzo(b)fluoranthene | 340 | | ug/kg | 130 | 37. | 1 |
| Benzo(k)fluoranthene | 95 | J | ug/kg | 130 | 36. | 1 |
| Chrysene | 220 | | ug/kg | 130 | 23. | 1 |
| Acenaphthylene | ND | | ug/kg | 180 | 34. | 1 |
| Anthracene | 53 | J | ug/kg | 130 | 43. | 1 |
| Benzo(ghi)perylene | 130 | J | ug/kg | 180 | 26. | 1 |
| Fluorene | 22 | J | ug/kg | 220 | 22. | 1 |
| Phenanthrene | 240 | | ug/kg | 130 | 27. | 1 |
| Dibenzo(a,h)anthracene | 35 | J | ug/kg | 130 | 26. | 1 |
| Indeno(1,2,3-cd)pyrene | 150 | J | ug/kg | 180 | 31. | 1 |
| Pyrene | 350 | | ug/kg | 130 | 22. | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5 | 79 | | 23-120 | |
| 2-Fluorobiphenyl | 56 | | 30-120 | |
| 4-Terphenyl-d14 | 41 | | 18-120 | |



L2103699

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

SAMPLE RESULTS

Date Collected: 01/21/21 15:48

Report Date: 01/29/21

Lab Number:

Lab ID: L2103699-09
Client ID: TP-15 0.5-2.0 FT
Sample Location: BUFFALO, NY

Date Received: 01/22/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/27/21 10:19

Analyst: ALS
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 01/25/21 18:15

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|------------------------------------|-----------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - V | Vestborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 150 | 20. | 1 | |
| Fluoranthene | 530 | | ug/kg | 110 | 22. | 1 | |
| Naphthalene | 27 | J | ug/kg | 190 | 23. | 1 | |
| Benzo(a)anthracene | 290 | | ug/kg | 110 | 21. | 1 | |
| Benzo(a)pyrene | 300 | | ug/kg | 150 | 46. | 1 | |
| Benzo(b)fluoranthene | 360 | | ug/kg | 110 | 32. | 1 | |
| Benzo(k)fluoranthene | 120 | | ug/kg | 110 | 30. | 1 | |
| Chrysene | 260 | | ug/kg | 110 | 20. | 1 | |
| Acenaphthylene | ND | | ug/kg | 150 | 29. | 1 | |
| Anthracene | 63 | J | ug/kg | 110 | 37. | 1 | |
| Benzo(ghi)perylene | 150 | | ug/kg | 150 | 22. | 1 | |
| Fluorene | 23 | J | ug/kg | 190 | 18. | 1 | |
| Phenanthrene | 260 | | ug/kg | 110 | 23. | 1 | |
| Dibenzo(a,h)anthracene | 42 | J | ug/kg | 110 | 22. | 1 | |
| Indeno(1,2,3-cd)pyrene | 170 | | ug/kg | 150 | 26. | 1 | |
| Pyrene | 440 | | ug/kg | 110 | 19. | 1 | |
| | | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5 | 103 | | 23-120 | |
| 2-Fluorobiphenyl | 73 | | 30-120 | |
| 4-Terphenyl-d14 | 61 | | 18-120 | |



L2103699

Lab Number:

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001 **Report Date:** 01/29/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3546
Analytical Date: 01/26/21 03:24 Extraction Date: 01/25/21 18:15

Analyst: WR

| Parameter | Result | Qualifier | Units | RL | MDL | |
|--------------------------------|----------------|-------------|-----------|-------------|--------|-------------|
| Semivolatile Organics by GC/MS | S - Westboroug | h Lab for s | ample(s): | 01-05,07-09 | Batch: | WG1458466-1 |
| Acenaphthene | ND | | ug/kg | 130 | 17. | |
| Fluoranthene | ND | | ug/kg | 99 | 19. | |
| Naphthalene | ND | | ug/kg | 160 | 20. | |
| Benzo(a)anthracene | ND | | ug/kg | 99 | 19. | |
| 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. | |
| | | | | | | |

| Surrogate | %Recovery | Acceptance Qualifier Criteria |
|----------------------|-----------|----------------------------------|
| 2-Fluorophenol | 78 | 25-120 |
| Phenol-d6 | 81 | 10-120 |
| Nitrobenzene-d5 | 78 | 23-120 |
| 2-Fluorobiphenyl | 84 | 30-120 |
| 2,4,6-Tribromophenol | 93 | 10-136 |
| 4-Terphenyl-d14 | 84 | 18-120 |



L2103699

Project Name: ELMWOOD+HERTEL

Project Number: Report Date: B0564-021-001

01/29/21

Lab Number:

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Analytical Date: 01/27/21 13:30

Analyst: IM Extraction Method: EPA 3546 01/26/21 12:18 **Extraction Date:**

Qualifier RL MDL **Parameter** Result Units Batch: WG1458752-1 Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Acenaphthene ND ug/kg 130 17. Fluoranthene ND ug/kg 99 19. ND Naphthalene ug/kg 160 20. Benzo(a)anthracene ND ug/kg 99 19. ND 40. Benzo(a)pyrene 130 ug/kg ND Benzo(b)fluoranthene ug/kg 99 28. Benzo(k)fluoranthene ND ug/kg 99 26. Chrysene ND ug/kg 99 17. Acenaphthylene ND 130 26. ug/kg ND 99 32. Anthracene ug/kg Benzo(ghi)perylene 19. ND ug/kg 130 Fluorene ND ug/kg 160 16. Phenanthrene ND ug/kg 99 20. Dibenzo(a,h)anthracene ND 99 ug/kg 19. ND Indeno(1,2,3-cd)pyrene 23. ug/kg 130 ND Pyrene ug/kg 99 16.

| | | Acceptance |
|----------------------|-------------|-------------------|
| Surrogate | %Recovery Q | ualifier Criteria |
| 2-Fluorophenol | 80 | 25-120 |
| · | | |
| Phenol-d6 | 88 | 10-120 |
| Nitrobenzene-d5 | 87 | 23-120 |
| 2-Fluorobiphenyl | 83 | 30-120 |
| 2,4,6-Tribromophenol | 89 | 10-136 |
| 4-Terphenyl-d14 | 72 | 18-120 |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103699

Report Date: 01/29/21

| arameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|-----------------|-------------------|--------|---------------------|-------------|------|---------------|
| emivolatile Organics by GC/MS - Westborou | ıgh Lab Associ | ated sample(s): | 01-05,07-09 | Batch: | WG1458466-2 | WG1458466-3 | | |
| Acenaphthene | 70 | | 72 | | 31-137 | 3 | | 50 |
| Fluoranthene | 77 | | 78 | | 40-140 | 1 | | 50 |
| Naphthalene | 66 | | 71 | | 40-140 | 7 | | 50 |
| Benzo(a)anthracene | 78 | | 82 | | 40-140 | 5 | | 50 |
| Benzo(a)pyrene | 80 | | 83 | | 40-140 | 4 | | 50 |
| Benzo(b)fluoranthene | 84 | | 88 | | 40-140 | 5 | | 50 |
| Benzo(k)fluoranthene | 69 | | 70 | | 40-140 | 1 | | 50 |
| Chrysene | 70 | | 74 | | 40-140 | 6 | | 50 |
| Acenaphthylene | 75 | | 78 | | 40-140 | 4 | | 50 |
| Anthracene | 71 | | 74 | | 40-140 | 4 | | 50 |
| Benzo(ghi)perylene | 77 | | 77 | | 40-140 | 0 | | 50 |
| Fluorene | 76 | | 82 | | 40-140 | 8 | | 50 |
| Phenanthrene | 74 | | 76 | | 40-140 | 3 | | 50 |
| Dibenzo(a,h)anthracene | 75 | | 74 | | 40-140 | 1 | | 50 |
| Indeno(1,2,3-cd)pyrene | 82 | | 82 | | 40-140 | 0 | | 50 |
| Pyrene | 75 | | 77 | | 35-142 | 3 | | 50 |

Project Name: ELMWOOD+HERTEL

Lab Number:

L2103699

Project Number: B0564-021-001

Report Date:

01/29/21

| | LCS | | LCSD | | %Recovery | | | RPD |
|-----------|-----------|------|-----------|------|-----------|-----|------|--------|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits |

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07-09 Batch: WG1458466-2 WG1458466-3

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|----------------------|-----------------------|------------------------|------------------------|
| 2-Fluorophenol | 67 | 78 | 25-120 |
| Phenol-d6 | 78 | 82 | 10-120 |
| Nitrobenzene-d5 | 72 | 79 | 23-120 |
| 2-Fluorobiphenyl | 75 | 79 | 30-120 |
| 2,4,6-Tribromophenol | 86 | 91 | 10-136 |
| 4-Terphenyl-d14 | 76 | 79 | 18-120 |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103699

Report Date: 01/29/21

| arameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------------------|-------------------|-------------|---------------------|-----|------|---------------|
| emivolatile Organics by GC/MS - Westboro | ugh Lab Associ | iated sample(s): | 06 Batch: | WG1458752-2 | 2 WG1458752-3 | | | |
| Acenaphthene | 71 | | 80 | | 31-137 | 12 | ı | 50 |
| Fluoranthene | 74 | | 88 | | 40-140 | 17 | | 50 |
| Naphthalene | 69 | | 81 | | 40-140 | 16 | | 50 |
| Benzo(a)anthracene | 80 | | 92 | | 40-140 | 14 | | 50 |
| Benzo(a)pyrene | 96 | | 94 | | 40-140 | 2 | | 50 |
| Benzo(b)fluoranthene | 78 | | 100 | | 40-140 | 25 | | 50 |
| Benzo(k)fluoranthene | 65 | | 77 | | 40-140 | 17 | | 50 |
| Chrysene | 70 | | 81 | | 40-140 | 15 | | 50 |
| Acenaphthylene | 77 | | 88 | | 40-140 | 13 | | 50 |
| Anthracene | 70 | | 81 | | 40-140 | 15 | | 50 |
| Benzo(ghi)perylene | 77 | | 87 | | 40-140 | 12 | | 50 |
| Fluorene | 77 | | 89 | | 40-140 | 14 | | 50 |
| Phenanthrene | 74 | | 84 | | 40-140 | 13 | | 50 |
| Dibenzo(a,h)anthracene | 75 | | 85 | | 40-140 | 13 | | 50 |
| Indeno(1,2,3-cd)pyrene | 84 | | 96 | | 40-140 | 13 | | 50 |
| Pyrene | 73 | | 86 | | 35-142 | 16 | | 50 |

Lab Number: L2103699

Project Number: B0564-021-001

ELMWOOD+HERTEL

Project Name:

Report Date:

01/29/21

| | LCS | | LCSD | | %Recovery | | | RPD |
|-----------|-----------|------|-----------|------|-----------|-----|------|--------|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits |

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1458752-2 WG1458752-3

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|----------------------|-----------------------|------------------------|------------------------|
| 2-Fluorophenol | 75 | 84 | 25-120 |
| Phenol-d6 | 80 | 96 | 10-120 |
| Nitrobenzene-d5 | 75 | 90 | 23-120 |
| 2-Fluorobiphenyl | 78 | 87 | 30-120 |
| 2,4,6-Tribromophenol | 88 | 104 | 10-136 |
| 4-Terphenyl-d14 | 72 | 86 | 18-120 |



METALS



Project Name:ELMWOOD+HERTELLab Number:L2103699Project Number:B0564-021-001Report Date:01/29/21

SAMPLE RESULTS

 Lab ID:
 L2103699-01
 Date Collected:
 01/21/21 08:07

 Client ID:
 TP-1 1-2.5 FT
 Date Received:
 01/22/21

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 85%

Prep Dilution Date Date Analytical Method **Parameter** Qualifier Units Factor **Prepared** Analyzed Method Result RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 5.12 mg/kg 0.456 0.095 1 01/26/21 05:20 01/28/21 17:10 EPA 3050B 1,6010D BV Barium, Total 59.3 mg/kg 0.456 0.079 1 01/26/21 05:20 01/28/21 17:10 EPA 3050B 1,6010D ΒV J 1 Cadmium, Total 0.365 mg/kg 0.456 0.045 01/26/21 05:20 01/28/21 17:10 EPA 3050B 1,6010D BV 1 Chromium, Total 19.1 mg/kg 0.456 0.044 01/26/21 05:20 01/28/21 17:10 EPA 3050B 1,6010D ΒV 13.3 2.28 0.122 01/26/21 05:20 01/28/21 17:10 EPA 3050B 1,6010D BV Lead, Total mg/kg 1 1,7471B Mercury, Total 0.075 0.073 0.048 1 01/26/21 08:35 01/27/21 13:33 EPA 7471B ΕW mg/kg Selenium, Total ND mg/kg 0.912 0.118 1 01/26/21 05:20 01/28/21 17:10 EPA 3050B 1,6010D ΒV Silver, Total ND 0.456 0.129 1 01/26/21 05:20 01/28/21 17:10 EPA 3050B 1,6010D ΒV mg/kg



Project Name: Lab Number: **ELMWOOD+HERTEL** L2103699 **Project Number:** B0564-021-001

0.531

mg/kg

Report Date: 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-03 Client ID: TP-4 0-0.5 FT

Sample Location: BUFFALO, NY

ND

Date Collected: 01/21/21 09:27 Date Received: 01/22/21

Field Prep: Not Specified

01/26/21 05:20 01/28/21 18:15 EPA 3050B

Sample Depth:

Silver, Total

Matrix: Soil 73% Percent Solids:

Prep Dilution Date Date Analytical Method **Parameter** Qualifier Units Factor **Prepared** Analyzed Method Result RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 4.11 mg/kg 0.531 0.110 1 01/26/21 05:20 01/28/21 18:15 EPA 3050B 1,6010D BV Barium, Total 85.0 mg/kg 0.531 0.092 1 01/26/21 05:20 01/28/21 18:15 EPA 3050B 1,6010D ΒV 1 Cadmium, Total 1.32 mg/kg 0.531 0.052 01/26/21 05:20 01/28/21 18:15 EPA 3050B 1,6010D BV 1 Chromium, Total 23.7 mg/kg 0.531 0.051 01/26/21 05:20 01/28/21 18:15 EPA 3050B 1,6010D ΒV 64.6 2.65 0.142 01/26/21 05:20 01/28/21 18:15 EPA 3050B 1,6010D BV Lead, Total mg/kg 1 1,7471B Mercury, Total 0.097 0.086 0.056 1 01/26/21 08:35 01/27/21 13:36 EPA 7471B ΕW mg/kg J Selenium, Total 0.345 mg/kg 1.06 0.137 1 01/26/21 05:20 01/28/21 18:15 EPA 3050B 1,6010D ΒV

0.150

1



1,6010D

ΒV

 Project Name:
 ELMWOOD+HERTEL
 Lab Number:
 L2103699

 Project Number:
 B0564-021-001
 Report Date:
 01/29/21

SAMPLE RESULTS

Lab ID:L2103699-04Date Collected:01/21/21 11:02Client ID:TP-6 0-0.5 FTDate Received:01/22/21Sample Location:BUFFALO, NYField Prep:Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 75%

| Percent Solids: | 1370 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 3.19 | | mg/kg | 0.516 | 0.107 | 1 | 01/26/21 05:20 | 01/28/21 18:20 | EPA 3050B | 1,6010D | BV |
| Barium, Total | 81.4 | | mg/kg | 0.516 | 0.090 | 1 | 01/26/21 05:20 | 01/28/21 18:20 | EPA 3050B | 1,6010D | BV |
| Cadmium, Total | 1.37 | | mg/kg | 0.516 | 0.051 | 1 | 01/26/21 05:20 | 01/28/21 18:20 | EPA 3050B | 1,6010D | BV |
| Chromium, Total | 73.4 | | mg/kg | 0.516 | 0.050 | 1 | 01/26/21 05:20 | 01/28/21 18:20 | EPA 3050B | 1,6010D | BV |
| Lead, Total | 67.5 | | mg/kg | 2.58 | 0.138 | 1 | 01/26/21 05:20 | 01/28/21 18:20 | EPA 3050B | 1,6010D | BV |
| Mercury, Total | 0.082 | J | mg/kg | 0.084 | 0.055 | 1 | 01/26/21 08:35 | 5 01/27/21 13:39 | EPA 7471B | 1,7471B | EW |
| Selenium, Total | 0.495 | J | mg/kg | 1.03 | 0.133 | 1 | 01/26/21 05:20 | 01/28/21 18:20 | EPA 3050B | 1,6010D | BV |
| Silver, Total | 0.237 | J | mg/kg | 0.516 | 0.146 | 1 | 01/26/21 05:20 | 01/28/21 18:20 | EPA 3050B | 1,6010D | BV |



 Project Name:
 ELMWOOD+HERTEL
 Lab Number:
 L2103699

 Project Number:
 B0564-021-001
 Report Date:
 01/29/21

SAMPLE RESULTS

Lab ID:L2103699-05Date Collected:01/21/21 12:48Client ID:TP-8 0-0.5 FTDate Received:01/22/21Sample Location:BUFFALO, NYField Prep:Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 81%

| Percent Solids. | 0170 | | | | | Dilution | Date | Date | Prep | Analytical | |
|---------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| Total Metals - Man | efield Lah | | | | | | | | | | |
| Total Metals - Mail | Sileiu Lab | | | | | | | | | | |
| Arsenic, Total | 1.83 | | mg/kg | 0.465 | 0.097 | 1 | 01/26/21 05:20 | 0 01/28/21 18:25 | EPA 3050B | 1,6010D | BV |
| Barium, Total | 85.2 | | mg/kg | 0.465 | 0.081 | 1 | 01/26/21 05:20 | 0 01/28/21 18:25 | EPA 3050B | 1,6010D | BV |
| Cadmium, Total | 1.01 | | mg/kg | 0.465 | 0.046 | 1 | 01/26/21 05:20 | 0 01/28/21 18:25 | EPA 3050B | 1,6010D | BV |
| Chromium, Total | 73.9 | | mg/kg | 0.465 | 0.045 | 1 | 01/26/21 05:20 | 0 01/28/21 18:25 | EPA 3050B | 1,6010D | BV |
| Lead, Total | 59.8 | | mg/kg | 2.32 | 0.124 | 1 | 01/26/21 05:20 | 0 01/28/21 18:25 | EPA 3050B | 1,6010D | BV |
| Mercury, Total | ND | | mg/kg | 0.077 | 0.050 | 1 | 01/26/21 08:35 | 5 01/27/21 13:49 | EPA 7471B | 1,7471B | EW |
| Selenium, Total | 0.767 | J | mg/kg | 0.929 | 0.120 | 1 | 01/26/21 05:20 | 01/28/21 18:25 | EPA 3050B | 1,6010D | BV |
| Silver, Total | 0.358 | J | mg/kg | 0.465 | 0.131 | 1 | 01/26/21 05:20 | 0 01/28/21 18:25 | EPA 3050B | 1,6010D | BV |
| | | | | | | | | | | | |



Project Name:ELMWOOD+HERTELLab Number:L2103699Project Number:B0564-021-001Report Date:01/29/21

SAMPLE RESULTS

 Lab ID:
 L2103699-06
 Date Collected:
 01/21/21 13:00

 Client ID:
 TP-9 1-2.5 FT
 Date Received:
 01/22/21

 Sample Location:
 BUFFALO, NY
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 85%

| Percent Solids: | 05/6 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|-----------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| Tatal Martala Mara | - C - L - L - L | | | | | | | | | | |
| Total Metals - Man | stield Lab | | | | | | | | | | |
| Arsenic, Total | 1.89 | | mg/kg | 0.461 | 0.096 | 1 | 01/26/21 05:20 | 01/28/21 18:29 | EPA 3050B | 1,6010D | BV |
| Barium, Total | 58.9 | | mg/kg | 0.461 | 0.080 | 1 | 01/26/21 05:20 | 01/28/21 18:29 | EPA 3050B | 1,6010D | BV |
| Cadmium, Total | 0.608 | | mg/kg | 0.461 | 0.045 | 1 | 01/26/21 05:20 | 01/28/21 18:29 | EPA 3050B | 1,6010D | BV |
| Chromium, Total | 209 | | mg/kg | 0.461 | 0.044 | 1 | 01/26/21 05:20 | 01/28/21 18:29 | EPA 3050B | 1,6010D | BV |
| Lead, Total | 24.1 | | mg/kg | 2.30 | 0.124 | 1 | 01/26/21 05:20 | 01/28/21 18:29 | EPA 3050B | 1,6010D | BV |
| Mercury, Total | ND | | mg/kg | 0.074 | 0.049 | 1 | 01/26/21 08:35 | 5 01/27/21 13:53 | EPA 7471B | 1,7471B | EW |
| Selenium, Total | 0.539 | J | mg/kg | 0.922 | 0.119 | 1 | 01/26/21 05:20 | 01/28/21 18:29 | EPA 3050B | 1,6010D | BV |
| Silver, Total | 0.954 | | mg/kg | 0.461 | 0.130 | 1 | 01/26/21 05:20 | 01/28/21 18:29 | EPA 3050B | 1,6010D | BV |



 Project Name:
 ELMWOOD+HERTEL
 Lab Number:
 L2103699

 Project Number:
 B0564-021-001
 Report Date:
 01/29/21

SAMPLE RESULTS

 Lab ID:
 L2103699-07
 Date Collected:
 01/21/21 13:22

 Client ID:
 TP-10 2-4.5 FT
 Date Received:
 01/22/21

 Sample Location:
 BUFFALO, NY
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 89%

| reident Solids. | 0370 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| Total Matala, Man | ماد المادة | | | | | | | | | | |
| Total Metals - Man | Sileid Lab | | | | | | | | | | |
| Arsenic, Total | 1.44 | | mg/kg | 0.438 | 0.091 | 1 | 01/26/21 05:20 | 01/28/21 21:15 | EPA 3050B | 1,6010D | BV |
| Barium, Total | 9.28 | | mg/kg | 0.438 | 0.076 | 1 | 01/26/21 05:20 | 01/28/21 21:15 | EPA 3050B | 1,6010D | BV |
| Cadmium, Total | 0.262 | J | mg/kg | 0.438 | 0.043 | 1 | 01/26/21 05:20 | 01/28/21 21:15 | EPA 3050B | 1,6010D | BV |
| Chromium, Total | 3.21 | | mg/kg | 0.438 | 0.042 | 1 | 01/26/21 05:20 | 01/28/21 21:15 | EPA 3050B | 1,6010D | BV |
| Lead, Total | 8.63 | | mg/kg | 2.19 | 0.117 | 1 | 01/26/21 05:20 | 01/28/21 21:15 | EPA 3050B | 1,6010D | BV |
| Mercury, Total | ND | | mg/kg | 0.070 | 0.046 | 1 | 01/26/21 08:35 | 5 01/27/21 13:56 | EPA 7471B | 1,7471B | EW |
| Selenium, Total | ND | | mg/kg | 0.875 | 0.113 | 1 | 01/26/21 05:20 | 01/28/21 21:15 | EPA 3050B | 1,6010D | BV |
| Silver, Total | ND | | mg/kg | 0.438 | 0.124 | 1 | 01/26/21 05:20 | 01/28/21 21:15 | EPA 3050B | 1,6010D | BV |



 Project Name:
 ELMWOOD+HERTEL
 Lab Number:
 L2103699

 Project Number:
 B0564-021-001
 Report Date:
 01/29/21

SAMPLE RESULTS

Lab ID:L2103699-08Date Collected:01/21/21 14:04Client ID:TP-11 0-0.5 FTDate Received:01/22/21Sample Location:BUFFALO, NYField Prep:Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 74%

| Percent Solids: | 74% | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 3.44 | | mg/kg | 0.520 | 0.108 | 1 | 01/26/21 05:20 | 01/28/21 21:20 | EPA 3050B | 1,6010D | BV |
| Barium, Total | 47.8 | | mg/kg | 0.520 | 0.090 | 1 | 01/26/21 05:20 | 01/28/21 21:20 | EPA 3050B | 1,6010D | BV |
| Cadmium, Total | 0.514 | J | mg/kg | 0.520 | 0.051 | 1 | 01/26/21 05:20 | 01/28/21 21:20 | EPA 3050B | 1,6010D | BV |
| Chromium, Total | 9.02 | | mg/kg | 0.520 | 0.050 | 1 | 01/26/21 05:20 | 01/28/21 21:20 | EPA 3050B | 1,6010D | BV |
| Lead, Total | 30.1 | | mg/kg | 2.60 | 0.139 | 1 | 01/26/21 05:20 | 01/28/21 21:20 | EPA 3050B | 1,6010D | BV |
| Mercury, Total | ND | | mg/kg | 0.085 | 0.056 | 1 | 01/26/21 08:35 | 5 01/27/21 13:59 | EPA 7471B | 1,7471B | EW |
| Selenium, Total | 0.306 | J | mg/kg | 1.04 | 0.134 | 1 | 01/26/21 05:20 | 01/28/21 21:20 | EPA 3050B | 1,6010D | BV |
| Silver, Total | ND | | mg/kg | 0.520 | 0.147 | 1 | 01/26/21 05:20 | 01/28/21 21:20 | EPA 3050B | 1,6010D | BV |



Project Name: Lab Number: **ELMWOOD+HERTEL** L2103699 **Project Number: Report Date:** B0564-021-001

01/29/21

SAMPLE RESULTS

Lab ID: L2103699-09 Client ID: TP-15 0.5-2.0 FT Date Collected: Date Received: 01/21/21 15:48

Sample Location: BUFFALO, NY

01/22/21 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

86% Percent Solids:

| Percent Solius. | 0070 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|----------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| T | <i>c</i> | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 4.70 | | mg/kg | 0.450 | 0.094 | 1 | 01/26/21 05:20 | 01/28/21 21:24 | EPA 3050B | 1,6010D | BV |
| Barium, Total | 33.6 | | mg/kg | 0.450 | 0.078 | 1 | 01/26/21 05:20 | 01/28/21 21:24 | EPA 3050B | 1,6010D | BV |
| Cadmium, Total | 0.712 | | mg/kg | 0.450 | 0.044 | 1 | 01/26/21 05:20 | 01/28/21 21:24 | EPA 3050B | 1,6010D | BV |
| Chromium, Total | 10.6 | | mg/kg | 0.450 | 0.043 | 1 | 01/26/21 05:20 | 01/28/21 21:24 | EPA 3050B | 1,6010D | BV |
| Lead, Total | 44.9 | | mg/kg | 2.25 | 0.121 | 1 | 01/26/21 05:20 | 01/28/21 21:24 | EPA 3050B | 1,6010D | BV |
| Mercury, Total | ND | | mg/kg | 0.073 | 0.048 | 1 | 01/26/21 08:35 | 01/27/21 14:03 | EPA 7471B | 1,7471B | EW |
| Selenium, Total | 0.455 | J | mg/kg | 0.901 | 0.116 | 1 | 01/26/21 05:20 | 01/28/21 21:24 | EPA 3050B | 1,6010D | BV |
| Silver, Total | ND | | mg/kg | 0.450 | 0.127 | 1 | 01/26/21 05:20 | 01/28/21 21:24 | EPA 3050B | 1,6010D | BV |
| | | | | | | | | | | | |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103699

Report Date: 01/29/21

Method Blank Analysis Batch Quality Control

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------|-----------------------|----------|--------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfiel | ld Lab for sample(s): | 01,03-09 | Batch: | WG145 | 58390-1 | | | | |
| Arsenic, Total | ND | mg/kg | 0.400 | 0.083 | 1 | 01/26/21 05:20 | 01/28/21 17:01 | 1,6010D | BV |
| Barium, Total | ND | mg/kg | 0.400 | 0.070 | 1 | 01/26/21 05:20 | 01/28/21 17:01 | 1,6010D | BV |
| Cadmium, Total | ND | mg/kg | 0.400 | 0.039 | 1 | 01/26/21 05:20 | 01/28/21 17:01 | 1,6010D | BV |
| Chromium, Total | ND | mg/kg | 0.400 | 0.038 | 1 | 01/26/21 05:20 | 01/28/21 17:01 | 1,6010D | BV |
| Lead, Total | ND | mg/kg | 2.00 | 0.107 | 1 | 01/26/21 05:20 | 01/28/21 17:01 | 1,6010D | BV |
| Selenium, Total | ND | mg/kg | 0.800 | 0.103 | 1 | 01/26/21 05:20 | 01/28/21 17:01 | 1,6010D | BV |
| Silver, Total | ND | mg/kg | 0.400 | 0.113 | 1 | 01/26/21 05:20 | 01/28/21 17:01 | 1,6010D | BV |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | |
|---------------------|---------------------------|----------|--------|-------|--------------------|------------------|------------------|----------------------|----|
| Total Metals - Mans | sfield Lab for sample(s): | 01,03-09 | Batch: | WG145 | 58392-1 | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | 0.054 | 1 | 01/26/21 08:35 | 01/27/21 08:58 | 3 1,7471B | EW |

Prep Information

Digestion Method: EPA 7471B



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103699

Report Date:

01/29/21

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---------------------|-----------|-------------------|-------------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated | sample(s): 01,03-09 | Batch: WG | 31458390-2 SF | RM Lot Numb | er: D109-540 | | | |
| Arsenic, Total | 102 | | - | | 70-130 | - | | |
| Barium, Total | 94 | | - | | 75-125 | - | | |
| Cadmium, Total | 93 | | - | | 75-125 | - | | |
| Chromium, Total | 94 | | - | | 70-130 | - | | |
| Lead, Total | 98 | | - | | 72-128 | - | | |
| Selenium, Total | 106 | | - | | 68-132 | - | | |
| Silver, Total | 97 | | - | | 68-131 | - | | |
| otal Metals - Mansfield Lab Associated | sample(s): 01,03-09 | Batch: WG | S1458392-2 SF | RM Lot Numb | er: D109-540 | | | |
| Mercury, Total | 95 | | - | | 60-140 | - | | |



Matrix Spike Analysis Batch Quality Control

Project Name: ELMWOOD+HERTEL

Project Number:

B0564-021-001

Lab Number: L2103699

Report Date: 01/29/21

| arameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery Qual | Recovery Limits | RPD Qual | RPD Limits |
|-----------------------------|------------------|----------------|-------------|-----------------|---------|--------------|-----------------------|--------------------|--------------|---------------|
| otal Metals - Mansfield Lab | Associated sam | nple(s): 01,03 | 3-09 QC | Batch ID: WG1 | 458390- | 3 QCS | ample: L2103699-01 | Client ID: | TP-1 1-2.5 F | Γ |
| Arsenic, Total | 5.12 | 10.8 | 18.0 | 119 | | - | - | 75-125 | - | 20 |
| Barium, Total | 59.3 | 180 | 228 | 94 | | - | - | 75-125 | - | 20 |
| Cadmium, Total | 0.365J | 4.59 | 4.69 | 102 | | - | - | 75-125 | - | 20 |
| Chromium, Total | 19.1 | 18 | 39.8 | 115 | | - | - | 75-125 | - | 20 |
| Lead, Total | 13.3 | 45.9 | 48.7 | 77 | | - | - | 75-125 | - | 20 |
| Selenium, Total | ND | 10.8 | 10.1 | 94 | | - | - | 75-125 | - | 20 |
| Silver, Total | ND | 27 | 24.8 | 92 | | - | - | 75-125 | - | 20 |
| otal Metals - Mansfield Lab | Associated sam | nple(s): 01,03 | 3-09 QC | Batch ID: WG1 | 458392- | 3 QCS | ample: L2103786-01 | Client ID: | MS Sample | |
| Mercury, Total | ND | 0.219 | 0.229 | 104 | | - | - | 80-120 | - | 20 |

Lab Duplicate Analysis Batch Quality Control

Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103699

Report Date: 01/29/21

| Parameter N | lative Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|-----------------|---------------------|----------------|-----------|----------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01,03- | 09 QC Batch ID: | WG1458390-4 QC Samp | ole: L2103699- | 01 Client | ID: TP-1 | 1-2.5 FT |
| Arsenic, Total | 5.12 | 7.15 | mg/kg | 33 | Q | 20 |
| Barium, Total | 59.3 | 84.9 | mg/kg | 36 | Q | 20 |
| Cadmium, Total | 0.365J | 0.416J | mg/kg | NC | | 20 |
| Chromium, Total | 19.1 | 26.1 | mg/kg | 31 | Q | 20 |
| Lead, Total | 13.3 | 10.4 | mg/kg | 24 | Q | 20 |
| Selenium, Total | ND | ND | mg/kg | NC | | 20 |
| Silver, Total | ND | ND | mg/kg | NC | | 20 |
| otal Metals - Mansfield Lab Associated sample(s): 01,03- | 09 QC Batch ID: | WG1458392-4 QC Samp | le: L2103786- | 01 Client | ID: DUP | Sample |
| Mercury, Total | ND | ND | mg/kg | NC | | 20 |

INORGANICS & MISCELLANEOUS



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001 Lab Number:

L2103699

Report Date:

01/29/21

SAMPLE RESULTS

Lab ID: L2103699-01

Client ID: TP-1 1-2.5 FT Sample Location: BUFFALO, NY Date Collected:

01/21/21 08:07

Date Received:

01/22/21

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 - V | Westborough Lab |) | | | | | | | | |
| Solids, Total | 85.4 | | % | 0.100 | NA | 1 | - | 01/23/21 12:09 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001 Lab Number:

L2103699

Report Date: 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-02

Client ID: TP-2 1.5-3 FT Sample Location: BUFFALO, NY Date Collected:

01/21/21 08:32

Date Received:

01/22/21

Field Prep:

Not Specified

Sample Depth:

Matrix:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|------------------------|---------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - We | stborough Lab |) | | | | | | | | |
| Solids, Total | 70.7 | | % | 0.100 | NA | 1 | - | 01/23/21 12:09 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001 Lab Number:

L2103699

Report Date: 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-03

Client ID: TP-4 0-0.5 FT Sample Location: BUFFALO, NY Date Collected:

01/21/21 09:27

Date Received: Field Prep:

01/22/21 Not Specified

Sample Depth:

Matrix:

| 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 | - | 01/23/21 12:09 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

L2103699 Report Date: Project Number: B0564-021-001

01/29/21

Lab Number:

SAMPLE RESULTS

Lab ID: Date Collected: L2103699-04 01/21/21 11:02

TP-6 0-0.5 FT Client ID: Date Received: 01/22/21 Not Specified Sample Location: BUFFALO, NY Field Prep:

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - V | Westborough Lab | | | | | | | | | |
| Solids, Total | 75.1 | | % | 0.100 | NA | 1 | - | 01/23/21 12:09 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103699

Report Date: 0

01/29/21

SAMPLE RESULTS

Lab ID: L2103699-05

Client ID: TP-8 0-0.5 FT

Date Collected:

01/21/21 12:48

Sample Location: BUFFALO, NY

Date Received: Field Prep:

01/22/21 Not Specified

Sample Depth:

Matrix:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|------------------------|----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - We | estborough Lab | | | | | | | | | |
| Solids, Total | 81.4 | | % | 0.100 | NA | 1 | - | 01/23/21 12:09 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

Lab Number:

L2103699

Project Number: B0564-021-001 Report Date:

01/29/21

SAMPLE RESULTS

Lab ID: L2103699-06

TP-9 1-2.5 FT Client ID:

Date Collected:

01/21/21 13:00

Sample Location: BUFFALO, NY

Date Received:

01/22/21

Not Specified Field Prep:

Sample Depth:

Matrix:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - V | Vestborough Lab |) | | | | | | | | |
| Solids, Total | 84.5 | | % | 0.100 | NA | 1 | - | 01/23/21 12:09 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001 Lab Number:

L2103699

Report Date:

01/29/21

SAMPLE RESULTS

Lab ID: L2103699-07

Client ID: TP-10 2-4.5 FT Date Collected:

01/21/21 13:22

Sample Location: BUFFALO, NY

Date Received:

01/22/21

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 - V | Westborough Lab | | | | | | | | | |
| Solids, Total | 89.2 | | % | 0.100 | NA | 1 | - | 01/23/21 12:09 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103699

Report Date: 01/29/21

SAMPLE RESULTS

Lab ID: L2103699-08

Client ID: TP-11 0-0.5 FT Sample Location: BUFFALO, NY

Date Collected:

01/21/21 14:04

Date Received: Field Prep:

01/22/21

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 | 73.9 | | % | 0.100 | NA | 1 | - | 01/23/21 12:09 | 121,2540G | RI |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number:

L2103699

Report Date:

01/29/21

SAMPLE RESULTS

Lab ID: L2103699-09

Client ID: TP-15 0.5-2.0 FT Sample Location: BUFFALO, NY

Date Collected:

01/21/21 15:48

5 0.5-2.0 FT Date Received: FALO, NY Field Prep:

ed: 01/22/21 Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | Vestborough Lab |) | | | | | | | | |
| Solids, Total | 86.2 | | % | 0.100 | NA | 1 | - | 01/23/21 12:09 | 121,2540G | RI |



Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** ELMWOOD+HERTEL L2103699

Project Number: Report Date: 01/29/21 B0564-021-001

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|-------------------------------|----------------------|------------|-------------|------------|---------------|
| General Chemistry - Westborough Lab Asso | ociated sample(s): 01-09 QC B | atch ID: WG1457991-1 | QC Sample: | L2103699-01 | Client ID: | TP-1 1-2.5 FT |
| Solids, Total | 85.4 | 84.9 | % | 1 | | 20 |



Project Name: ELMWOOD+HERTEL

Project Number: B0564-021-001

Lab Number: L2103699
Report Date: 01/29/21

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler Custody Seal

B Absent

| Container Information | | | Initial | Final | Temp | | | Frozen | |
|-----------------------|--|--------|---------|-------|-------|------|--------|-----------------|---|
| Container ID | Container Type | Cooler | рН | pН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L2103699-01A | Plastic 2oz unpreserved for TS | В | NA | | 2.1 | Υ | Absent | | TS(7) |
| L2103699-01B | Metals Only-Glass 60mL/2oz unpreserved | В | NA | | 2.1 | Υ | Absent | | BA-TI(180),AS-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L2103699-01C | Glass 120ml/4oz unpreserved | В | NA | | 2.1 | Υ | Absent | | NYCP51-PAH(14) |
| L2103699-02A | Plastic 2oz unpreserved for TS | В | NA | | 2.1 | Υ | Absent | | TS(7) |
| L2103699-02B | Glass 120ml/4oz unpreserved | В | NA | | 2.1 | Υ | Absent | | NYCP51-PAH(14) |
| L2103699-02C | Vial Large Septa unpreserved (4oz) | В | NA | | 2.1 | Υ | Absent | | NYTCL-8260-R2(14) |
| L2103699-02X | Vial MeOH preserved split | В | NA | | 2.1 | Υ | Absent | | NYTCL-8260-R2(14) |
| L2103699-02Y | Vial Water preserved split | В | NA | | 2.1 | Υ | Absent | 26-JAN-21 01:37 | NYTCL-8260-R2(14) |
| L2103699-02Z | Vial Water preserved split | В | NA | | 2.1 | Υ | Absent | 26-JAN-21 01:37 | NYTCL-8260-R2(14) |
| L2103699-03A | Plastic 2oz unpreserved for TS | В | NA | | 2.1 | Υ | Absent | | TS(7) |
| L2103699-03B | Metals Only-Glass 60mL/2oz unpreserved | В | NA | | 2.1 | Y | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L2103699-03C | Glass 120ml/4oz unpreserved | В | NA | | 2.1 | Υ | Absent | | NYCP51-PAH(14) |
| L2103699-04A | Plastic 2oz unpreserved for TS | В | NA | | 2.1 | Υ | Absent | | TS(7) |
| L2103699-04B | Metals Only-Glass 60mL/2oz unpreserved | В | NA | | 2.1 | Y | Absent | | BA-TI(180),AS-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L2103699-04C | Glass 120ml/4oz unpreserved | В | NA | | 2.1 | Υ | Absent | | NYCP51-PAH(14) |
| L2103699-05A | Plastic 2oz unpreserved for TS | В | NA | | 2.1 | Υ | Absent | | TS(7) |
| L2103699-05B | Metals Only-Glass 60mL/2oz unpreserved | В | NA | | 2.1 | Y | Absent | | BA-TI(180),AS-TI(180),AG-TI(180),CR- TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD- TI(180) |
| L2103699-05C | Glass 120ml/4oz unpreserved | В | NA | | 2.1 | Υ | Absent | | NYCP51-PAH(14) |
| L2103699-06A | Plastic 2oz unpreserved for TS | В | NA | | 2.1 | Υ | Absent | | TS(7) |



Lab Number: L2103699

Report Date: 01/29/21

| Container Info | Container Information | | | Final | Temp | | | Frozen | |
|----------------|--|--------|----|-------|-------|------|--------|-----------|---|
| Container ID | Container Type | Cooler | рН | рН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L2103699-06B | Metals Only-Glass 60mL/2oz unpreserved | В | NA | | 2.1 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L2103699-06C | Vial Large Septa unpreserved (4oz) | В | NA | | 2.1 | Υ | Absent | | NYCP51-PAH(14) |
| L2103699-07A | Plastic 2oz unpreserved for TS | В | NA | | 2.1 | Υ | Absent | | TS(7) |
| L2103699-07B | Metals Only-Glass 60mL/2oz unpreserved | В | NA | | 2.1 | Y | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L2103699-07C | Glass 120ml/4oz unpreserved | В | NA | | 2.1 | Υ | Absent | | NYCP51-PAH(14) |
| L2103699-08A | Plastic 2oz unpreserved for TS | В | NA | | 2.1 | Υ | Absent | | TS(7) |
| L2103699-08B | Metals Only-Glass 60mL/2oz unpreserved | В | NA | | 2.1 | Y | Absent | | BA-TI(180),AS-TI(180),AG-TI(180),CR- TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD- TI(180) |
| L2103699-08C | Vial Large Septa unpreserved (4oz) | В | NA | | 2.1 | Υ | Absent | | NYCP51-PAH(14) |
| L2103699-09A | Vial Large Septa unpreserved (4oz) | В | NA | | 2.1 | Υ | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR- TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD- TI(180) |
| L2103699-09B | Vial Large Septa unpreserved (4oz) | В | NA | | 2.1 | Υ | Absent | | NYCP51-PAH(14),TS(7) |



Project Name:

Project Number: B0564-021-001

ELMWOOD+HERTEL

Project Name: Lab Number: **ELMWOOD+HERTEL** L2103699 **Project Number:** B0564-021-001 **Report Date:** 01/29/21

GLOSSARY

Acronyms

LOD

LOQ

MS

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration. **EPA**

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.

Environmental Protection Agency.

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.

- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDI - 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.

> - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile NR

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name:ELMWOOD+HERTELLab Number:L2103699Project Number:B0564-021-001Report Date:01/29/21

Footnotes

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

Terms

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a "Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name:ELMWOOD+HERTELLab Number:L2103699Project Number:B0564-021-001Report Date:01/29/21

Data Qualifiers

- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name:ELMWOOD+HERTELLab Number:L2103699Project Number:B0564-021-001Report Date:01/29/21

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873

Revision 17

Page 1 of 1

Published Date: 4/28/2020 9:42:21 AM

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. **EPA 624.1**: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

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

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

| Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 | NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 | Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Cod Project Information Project Name: | lay | (PART) | Page | | | | | | 23 | THE REAL | ALPHA Job # L2\63(49) Billing Information Same as Client Info |
|--|--|--|--|-----------------------------|--------------|-------------|-------|------------|------------|------------|--------|--------------------------|--|
| FAX: 508-898-9193 | FAX: 508-822-3288 | Project Location: | Bulleto | Ly | | | 1 🗖 | EQu | IS (1 F | ile) | EQu | IS (4 File) | PO# |
| Client Information | | Project# Bo 564 | - 021-1 | 001 | | | | Othe | r | | 5-3-00 | | |
| Client: BEnchw | rede En | (Use Project name as Pr | The second secon | | | | Regu | latory | Requ | iremer | t | Section 1 | Disposal Site Information |
| Address: 2558 Ho | why Tunte | Project Manager: | hris B | Net 0 | | | | NY T | ogs | | NY P | art 375 | Please identify below location of |
| Lactur NY | 1/4218 | ALPHAQuote #: | | | | | | AWQ | Standa | rds | NY C | P-51 | applicable disposal facilities. |
| Phone: (716) 81 | 13558 | Turn-Around Time | | STATE OF | Tall of | | | NY R | estricte | d Use | Othe | S | Disposal Facility: |
| Fax: | | Standard | | Due Date: | | | | NYU | nrestric | ted Use | | | □ NJ □ NY |
| Email: TBehrandl | | Rush (only if pre approved | | # of Days: | | | | NYC | Sewer I | Dischar | ge | | Other: |
| These samples have b | | | y Alpha | | | | | | 3 | | | | Sample Filtration |
| Other project specific | | ents: | | | | | Solds | A 8 METALS | 7 SVOC | . Voc 8260 | | | Done Lab to do Preservation Lab to do (Please Specify below) |
| ALPHA Lab ID | Sa | mple ID | Colle | ection | Sample | Sampler's | T. 12 | RCR, | 5 | TEL | | | t |
| (Lab Use Only) | | Imple ID | Date | Time | Matrix | Initials | 1 | 8 | S | 7 | | | Sample Specific Comments |
| 03669-01 | TP-1 1-2.5 | - LI | 1/21/21 | 807 | Soil | TAB | X | X | X | | | | 3 |
| -02 | TP-2 1.5- | 3.fL | | 832 | 1 | | X | | X | X | | | 3 |
| -63 | | 0.5 ft | | 927 | | | X | X | X | | | | 3 |
| -04 | | 0,5 ft | | 1102 | | | X | X | X | | | | 3 |
| -05 | | 5 4 | | 1248 | | | X | X | X | | | | 3 |
| -06 | TP-9 1-3 | | | 1300 | | | × | × | X | | | | 3 |
| -07 | | 4.5 4 | | 1323 | | 1 | X | X | × | | | | 3 |
| -08 | | 0.5 (+ | | 1404 | | | X | X | X | | | | 3 |
| -09 | TP-15 0.5 | 5-2047 | * | 1548 | र्ग | 4 | X | X | X | | | | 3 |
| Secretary Code | Contribute Contr | | | | | | | | | | | | |
| Preservative Code: A = None B = HCI C = HNO ₃ D = H ₂ SO ₄ F = NaOH | Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup | Westboro: Certification N Mansfield: Certification N | | | | tainer Type | A | A | A | 4 | | | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not |
| G = NaHSO ₄ H = Na ₂ S ₂ O ₃ | C = Cube O = Other E = Encore D = BOD Bottle | Relinquished I | By: AM | Date/ 1/22/24 (/53/3/ | 1300 1340 | So | Recei | | y: 334C | -/, | 1/23/2 | /Time /3/0 / 00/50 | 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.) |