PHASE II ENVIRONMENTAL INVESTIGATION REPORT

PARCELS LOCATED AT 160-168 BEST STREET, 1145 MICHIGAN AVENUE, AND 81 EDNA PLACE BUFFALO, NEW YORK

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1.0 Introduction

1.1 Background and Site Description

TurnKey Environmental Restoration, LLC (TurnKey) performed a Phase II Environmental Investigation on behalf of Cedarland Development Group (CDG) at seven (7) parcels addressed as 160, 162, 164, 168 Best Street, 1145 Michigan Avenue and 81 Edna Place, in the City of Buffalo, New York (Site). The properties addressed as 166 and 168 Best, and 81 Edna Street are owned by CDG, or a related entity. The other four (4) properties are owned by the City of Buffalo.

The Site is in a highly developed commercial and residential area in the City of Buffalo in the vicinity of the Buffalo-Niagara Medical Campus (see Figure 1) and the parcels are currently vacant (see Figure 2).

1.2 Previous Study

TurnKey completed a Phase I Environmental Site Assessment for the Site in February 2016. We note that the Phase I ESA also included a parcel located at 1157 Michigan Avenue, which was not a part of the Phase II ESA.

TurnKey's investigation revealed the following RECs in connection with the Site:

- The historic on-Site automotive repair operations, which were located at 1139 Michigan Avenue (now addressed as the northern portion of 160 Best Street and the southern portion of 1145 Michigan Avenue) with the reasonably anticipated use of petroleum and/or solvents, is considered a REC as subsurface conditions are unknown.
- The potential for miscellaneous fill materials exists on-Site as fill materials may have been brought to the Site to bring former building areas to grade. The presence of fill material from unknown sources is considered a REC due to the potential for impacts.
- The historic adjacent automotive repair and gasoline station operations with gasoline underground storage tanks (USTs) along with the dry cleaner are considered RECs due to the potential for environmental impacts from these operations.

Due to the RECs identified for the Site, TurnKey recommended completion of a Phase II Environmental Investigation to assess subsurface soil/fill conditions.



2.0 SITE INVESTIGATION ACTIVITIES

2.1 Test Pit Investigation

TurnKey completed test pit investigations with a mini track-mounted excavator to assess subsurface conditions at the Site. Eighteen (18) test pits designated as TP-1 through TP-18 were completed at the Site (see Figure 3). The test pits were advanced to depths varying from approximately 5 to 8 feet below ground surface (fbgs) into the native soil underlying at 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 TurnKey'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.

At least one (1) test pit was completed at each of the seven (7) parcels that make up the Site. 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 small trees). The parcels along Best Street (160, 162, 164, 166 and 168) had recently been used as a construction-material storage area (i.e., piping, stone backfill, topsoil, dumpsters) by the contractor performing sewer work along Michigan Avenue and Best Street. Portions of these parcels appear to have been recently regraded and hydro seeded.

The subsurface conditions of the Site consisted of varying types of fill materials ranging in depth from 0 to 7 fbgs. Fill materials were found at the test pit locations with the exception of TP-6 and TP-14, which are adjacent test pits at the southern end of 81 Edna Place and easter portion of 1145 Michigan Avenue, respectively (see Figure 3). Native soil was encountered at the test pit locations and consisted of reddish brown sandy lean clay, typical of this area, at depths ranging from 2 to 7 fbgs. Native soils were encountered at shallower depths in the north and western portion of 1145 Michigan Avenue parcel compared to other areas of the Site which averaged 4 to 5 fbgs.

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.

Groundwater was not encountered during Phase II activities. Perched water was only observed in one (1) test pit (TP-3) at about 2 to 4 fbgs. However, groundwater flow is likely northerly, consistent with topography in the vicinity of the Site. Local groundwater flow, however, may be influenced by subsurface features, such as excavations, utilities, and localized fill-conditions.

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 visual or olfactory evidence of impacts were observed, nor were elevated PID readings identified at the test pit locations.

Fill materials were identified at 17 of the 18 test pit locations which contained various amounts of black fines, brick, concrete debris, cinders, ash, metal, glass, and plastic debris.



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 Soil Cleanup Objectives (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 in a multi-story, multi-unit residential capacity, the Restricted Residential SCOs are considered applicable comparative criteria.

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

Volatile Organic Compounds

VOCs were not detected above method detection limits (MDLs) in the two (2) samples analyzed for VOCs during the Phase II.

Semi-Volatile Organic Compounds

SVOCs were detected above MDLs in the twelve (12) samples analyzed for SVOCs. SVOCs, specifically, polycyclic aromatic hydrocarbons (PAHs) were detected above their respective Part 375 RRSCOs, Commercial SCOs (CSCOs), and/or Industrial SCOs (ISCOs) at four (4) investigation locations, TP-5, TP-9, TP-11, and TP-17. These sample locations are shown in on Figure 3 and Figure 4 (which also contains the analytical results). PAHs were detected above their respective SCOs on the 160 Best Street, 1145 Michigan Avenue, and 81 Edna Place parcels.

- Benzo(a)anthracene and benzo(b)fluoranthene exceeded their RRSCOs at three (3) locations: TP-5, 1 to 4.5 ft, TP-11, 2 to 3 ft, and TP-17, 2 to 3 ft; and their CSCOs at one (1) location, TP-9, 0 to 0.5 ft.
- Benzo(a)pyrene exceeded its ISCO at three (3) locations: TP-9, 0 to 0.5 ft, TP-11, 2 to 3 ft, and TP-17, 2 to 3 ft.
- Chrysene exceeded its RRSCO at one (1) location: TP-9, 0 to 0.5 ft.
- Dibenzo(a,h)anthracene exceeded its CSCO at one (1) location: TP-9, 0 to 0.5 ft.
- Indeno(1,2,3-cd)pyrene exceeded its RRSCO at four (4) locations: TP-5, 1 to 4.5 ft, TP-9, 0 to 0.5 ft, TP-11, 2 to 3 ft, and TP-17, 2 to 3 ft.



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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 RRSCOs, CSCOs, and/or ISCOs at seven (7) investigation locations, TP-2, TP-3. TP-5, TP-7, TP-11, and TP-18. These sample locations are shown in on Figure 3 and Figure 4 (which also contains the analytical results). Metals above their respective SCOs were detected on the 162, 164, 166, and 168 Best Street, 1145 Michigan Avenue, and 81 Edna Place parcels.

- Arsenic exceeded it ISCO at TP-18, 2 to 3 ft.
- Barium exceeded it CSCO at TP-18, 2 to 3 ft.
- Lead exceeded is RRSCO at TP-3, 1 to 4 on the 166 Best Street property; CSCOs at TP-5, 1 to 4.5 ft, TP-7, 0.5 to 2.5 ft, TP-11, 2 to 3 ft, TP-18, 2 to 3 ft; and its ISCO at TP-3, 2 to 4 ft.
- Mercury exceeded its RRSCO at TP-2, 2 to 5 ft, TP-3, 1 to 4 ft and TP-51 to 4.5 ft.



4.0 CONCLUSIONS AND RECOMMENDATIONS

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

- No visual/olfactory evidence of impacts or PID readings exceeding background (0 ppm) were observed during the investigation.
- Subsurface conditions of the Site consisted of varying types of fill materials ranging in depth from 0 to 7 fbgs which contained various amounts of black fines, brick, concrete debris, cinders, ash, metal, glass, and plastic debris.
- VOCs were not detected above MDLs in the two (2) samples analyzed for VOCs.
- SVOCs, specifically PAHs were detected above MDLs in the twelve (12) samples analyzed. PAHs were detected above their respective RRSCOs, CSCOs, and/or or ISCOs at four (4) locations (TP-5, TP-9, TP-11, and TP-17) on three (3) different parcels (160 Best Street, 1145 Michigan Avenue, and 81 Edna Place).
- Metals were detected above MDLs in the twelve (12) samples analyzed with detections above their respective RRSCOs, CSCOs, and/or or ISCOs at seven (7) investigation locations (TP-2, TP-3. TP-5, TP-7, TP-11, and TP-18) on six (6) parcels (162, 164, 166, and 168 Best Street, 1145 Michigan Avenue, and 81 Edna Place).

Environmental impacts have been identified at each of the seven (7) parcels that make up the Site 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, with some samples exceeding the CSCOs and ISCOs. The detected concentrations exceeding the applicable RRSCOs were detected in the fill material present at the Site. Fill material is present across most of the Site and varies in depth up to 7 fbgs. The contaminated fill material and any other solid waste material generated during the redevelopment project will require proper management and landfill disposal.

Based on the existing data the Site is a candidate 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



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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 CDG. The contents of this report are limited to information available at the time of the 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 CDG. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.





SUMMARY OF SUBSURFACE FIELD OBSERVATIONS PHASE II ENVIRONMENTAL INVESTIGATION REPORT MICHIGAN & BEST STREETS BUFFALO, NEW YORK

| Location | Date | Parcel | Fill Present | Odors | Water Present | Depth of Test Pit (fbgs) | Thickness of Fill (ft) | Length of Test Pits (ft) | Test Pit Width (ft) | PID Measurement s | Sample Depth (ft) | Depth (fbgs) and Soil Description |
|----------|---------------|------------------------------------|-----------------|-------|------------------|--------------------------------|---------------------------|-----------------------------|------------------------|-------------------------|-------------------------|--|
| | | | | | | | | | | | | |
| | | | | | | | | | | 0 | 1 - 3 ft | 0 to 3 ft: FILL - 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 | 01/15/21 | 168 Best | Yes | No | No | 5 | 3.0 | 35 | 2.5 | 0 | | 3 to 4 ft: RE-WORKED SAND - Brown, moist, mostly fine sand, with little silt, loose. |
| | | | | | | | | | | 0 | | 4 to 5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, with some fine sand, very stiff, rootletts. |
| TP-2 | 01/15/21 | 168 Best | Yes | No | No | 6 | 5.0 | 30 | 3.5 | 0 | | 0 to 5 ft: FILL - Brown Reddish/brown, mostly reworked clay, some fine sand, with orange brick, concrete and asphalt, overlying a concrete floor, larger concrete rubble debris towards the center of the test pit and ash pockets at the north end of test pit. |
| | 0 1, 1 0, 2 1 | .00 2001 | | | | | | | 0.0 | 0 | | 5 to 6 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, with some fine sand, very stiff, rootletts. |
| | | | | | | | | | | 0 | | 0 - 1 ft: TOPSOIL - Dark brown, moist, mostly silt, some fine sand, with little clay, trace fine gravel, roots with trace brick and concrete. |
| TP-3 | 01/15/21 | 166 Best (west end) 168 Best | Yes | No | Yes | 7 | 4.0 | 31 | 2.5 | 0 | 1 - 4 ft | 1 to 4 ft: FILL - Dark brown/black, mostly fines, with some fine sand, mixed with concrete and brick debris, overlying a concrete floor (west end), larger concrete rubble debris towards the center of the test pit with small amount of perched water and ash lens from 2.0 to 4.0 fbgs at the east end of the test pit. |
| | | (east end) | | | | | | | | 0 | | 4 to 5 ft: RE-WORKED SAND - Brown, moist, mostly fine sand, with little silt, loose. |
| | | | | | | | | | | 0 | | 5 to 6 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, with some fine sand, very stiff, rootlets. |
| | | | | | | | | | | 0 | | 0 to 3 ft: FILL - Brown Reddish/brown, mostly reworked clay, some fine sand, with orange brick, concrete and asphalt and crushed stone, overlying concrete floor at 3.0 fbgs at the south end of test pit. |
| TP-4 | 1/15/2021 | 166 Best | Yes | No | No | 6 | 4 | 20 | 2.5 | 0 | | 3 to 4 ft. FILL - Black, mostly silt fines with some fine sand, orange brick, cinders and concrete. At north end of test pit. |
| | | | | | | | | | | 0 | | 4 to 5 ft: RE-WORKED SAND - Brown, moist, mostly fine sand, with little silt, loose. |
| | | | | | | | | | | 0 | | 5 to 6 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, with some fine sand, very stiff, rootlets. |
| | | | | | | | | | | 0 | | 0 - 1 ft: TOPSOIL - Dark brown, moist, mostly silt, some fine sand, with little clay, trace fine gravel. |
| TP-5 | 1/15/2021 | 81 Edna | Yes | No | No | 5 | 4.5 | 15 | 4 | 0 | 1 - 4.5 ft | 3 to 4.5 ft. FILL - Black, mostly silt fines with some fine sand, ornge brick, large concrete debris, metal dedris and plastic debris. |
| | | | | | | | | | | 0 | | 4.5 to 5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, with some fine sand, very stiff, rootletts. |



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| Location | Date | Parcel | Fill Present | Odors | Water Present | Depth of Test Pit (fbgs) | Thickness of Fill (ft) | Length of Test Pits (ft) | Test Pit Width (ft) | PID Measurement s | Sample Depth (ft) | Depth (fbgs) and Soil Description |
|----------|----------|-------------------------------|-----------------|-------|------------------|--------------------------------|---------------------------|-----------------------------|------------------------|-------------------------|-------------------------|---|
| | | | | | | | | | | 0 | | 0.0 - 1 ft: TOPSOIL - Dark brown/black, moist, mostly silt, some fine sand, with little clay, trace fine gravel and roots |
| TP-6 | 01/15/21 | 81 Edna | No | No | No | 5 | 0.0 | 15 | 2.5 | 0 | | 4 to 4.5 ft: RE-WORKED SAND - Brown, moist, mostly fine sand, with little silt, loose. |
| | | | | | | | | | | 0 | | 4.5 to 5.0 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, with some fine sand, very stiff, rootletts. |
| | | 164 Best east end | | | | | | | | 0 | | 0 to 2.5 ft: FILL - Brown, mostly silt and clay, some fine sand, with orange brick, concrete and asphalt and crushed stone. |
| TP-7 | 01/15/21 | 162 Best | Yes | No | No | 6 | 2.5 | 35 | 2.5 | 0 | | 2.5 to 4.5 ft: RE-WORKED SAND - Brown, moist, mostly fine sand, with little silt, loose. |
| | | west end | | | | | | | | 0 | | 4.5 to 6 ft: SANDY LEAN CLAY - Reddish Brown, moist, mostly clay, Some fine sand, stiff. |
| | | | | | | | | | | 0 | | 0 - 1 ft: TOPSOIL - Dark brown, moist, mostly silt, some fine sand, with little clay, trace fine gravel, roots, with surface dedris (trace concrete and brick). |
| TP-8 | 01/15/21 | 160 Best South end 1145 | Yes | No | No | 6 | 4 | 35 | 2.5 | 0 | 3 to 4 | 1 to 4 ft: FILL - Brown/dark brown, mostly fines with some fine sand, with concrete, orange brick, carpeting and limestone block. |
| 17-0 | 01/15/21 | Michigan north end | 162 | NO | NO | 0 | 4 | 35 | 2.5 | 0 | | 4 to 5 ft: RE-WORKED SAND - Brown, moist, mostly fine sand, with little silt, loose. |
| | | | | | | | | | | 0 | | 5 to 6 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |
| | | | | | | | | | | 0 | 0 to 0.5 | 0 - 1 ft: TOPSOIL - Black, moist, mostly silt, some fine sand, cinders and brick, root, three 1 and a 1/2 inch steel pipes from from one to two feet at south end of test pit. |
| TP-9 | 01/15/21 | 1145 Michigan | Yes | No | No | 5 | 4 | 25 | 2.5 | 0 | | 1 to 4 ft FILL - Brown/dark brown, mostly silt and clay, with orange brick and concrete. |
| | | | | | | | | | | 0 | | 4 - 5 ft: SANDY LEAN CLAY - reddish brown, moist, mostly clay, some fine sand, stiff. |
| | | | | | | | | | | 0 | | 0 - 1.5 ft: TOPSOIL - Dark brown, moist, mostly silt, some fine sand, cinders and brick, roots. |
| TP-10 | 01/15/21 | 1145 Michigan | Yes | No | No | 5 | 3.5 | 16 | 2.5 | 0 | | 1.5 to 3.5 ft: FILL- Brown/dark brown, mostly silt and clay, with orange brick and concrete. |
| | | | | | | | | | | 0 | | 3.5- 5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |
| | | | | | | | | | | 0 | 2 to 3 | 1.5 to 6 ft: FILL - Black/ brown, moist, mostly silty sand, some fill limestone, metal piping, brick, concrete, cinders, subangular gravel, plastic, glass, wood |
| TP-11 | 02/08/21 | 1145 Michigan | Yes | No | Yes | 8 | 7.0 | 10 | 2.5 | 0 | 6 to 7 | 6- 7 ft: Ash Fill - Black/ white, wet, mostly ash, some cinders, coal, black fines |
| | | | | | | | | | | 0 | | 7- 8 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |



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| Location | Date | Parcel | Fill Present | Odors | Water Present | Depth of Test Pit (fbgs) | Thickness of Fill (ft) | Length of Test Pits (ft) | Test Pit Width (ft) | PID Measurement s | Sample Depth (ft) | Depth (fbgs) and Soil Description |
|----------|----------|------------------|-----------------|-------|------------------|--------------------------------|---------------------------|-----------------------------|------------------------|-------------------------|-------------------------|--|
| | | | | | | | | | | 0 | | 0 - 0.5 ft: TOPSOIL - Black, moist, mostly silt, some fine sand, cinders and brick, root. |
| TP-12 | 02/08/21 | 1145 Michigan | Yes | No | No | 5 | 2 | 15 | 2.5 | 0 | 1 to 2 | 0.5 to 2 ft FILL - Brown/dark brown, mostly silt and clay, little fill brick, glass, wood |
| | | | | | | | | | | 0 | | 2 - 5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |
| TP-13 | 02/08/21 | 1145 | Yes | No | No | E | 2/0 | 15 | 2.5 | 0 | | 0 to 0.5 ft: FILL- Black/ grey, moist, mostly silty sand, few fill brick, concrete, glass, wood |
| 1P-13 | 02/08/21 | Michigan | res | No | No | 5 | n/a | 15 | 2.5 | 0 | | 0.5- 5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |
| TP-14 | 02/08/21 | 1145 | Yes | Ma | No | 5 | n/a | 15 | 2.5 | 0 | | 0 - 0.5 ft: TOPSOIL - Dark brown, moist, mostly silt, some fine sand, cinders and brick, roots. |
| 1P-14 | 02/08/21 | Michigan | res | No | INO | 5 | n/a | 15 | 2.5 | 0 | | 0.5- 5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |
| | | | | | | | | | | 0 | | 0 - 0.5 ft: TOPSOIL - Dark brown, moist, mostly silt, some fine sand, cinders and brick, roots. |
| TP-15 | 02/08/21 | 1145 Michigan | Yes | No | No | 5 | 1.5 | 20 | 2.5 | 0 | 0.5 to 1.5 | 0.5 to 1.5 ft: FILL- White, moist, mostly ash, some cinders, brick, coal |
| | | | | | | | | | | 0 | | 1.5- 5 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |
| TD 16 | 02/08/21 | 160 Best | Vaa | No | No | 6 | 1 | 15 | 2.5 | 0 | 0 to 1 | 0 to 1 ft FILL - Black, moist, mostly silty sand, little fill brick, glass, limestone, rubber hose |
| TP-16 | 02/08/21 | 100 Best | Yes | No | No | 6 | ' | 15 | 2.5 | 0 | | 1 - 6 ft: REWORKED SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |
| | | | | | | | | | | 0 | | 0 - 2 ft: REWORKED SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |
| TP-17 | 02/08/21 | 160 Best | Yes | No | No | 6 | 4.0 | 15 | 2.5 | 0 | 2 to 3 | 2 to 4 ft: FILL- White, mostly ash, some glass, brick, coal, cinders |
| | | | | | | | | | | 0 | | 4- 6 ft: SANDY LEAN CLAY - Reddish brown, moist, mostly clay, some fine sand, stiff. |
| TD 40 | 00/00/04 | 400 D : : 1 | V | M | NI: | | 5.0 | 45 | 0.5 | 0 | 2 to 3 | 0 to 5 ft: FILL- Dark brown/ black, moist, mostly silty sand, some fill brick, glass, ash, cinders, wood, fire brick, metal, wiring |
| TP-18 | 02/08/21 | 162 Best | Yes | No | No | 6 | 5.0 | 15 | 2.5 | 0 | | 5- 6 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 PHASE II ENVIRONMENTAL INVESTGATION REPORT MICHIGAN & BEST, BUFFALO, NEW YORK

| | | | | | Ana | lysis | | | | | |
|------------------------------|-----------------------|------|----------------|----------|--------------------------------------|------------------|---------------|--|--|--|--|
| Sample Location | I Depth I Soll Lype I | | Parcel Address | TCL VOCs | TCL list SVOCs base-neutrals only | CP-51 List SVOCs | RCRA 8 Metals | | | | |
| Subsurface Soil/Fill Samples | | | | | | | | | | | |
| TP-1 | 1 to 3 ft | Fill | 168 Best | х | х | | Х | | | | |
| TP-2 | 2 to 5 ft | Fill | 168 Best | | | Х | Х | | | | |
| TP-3 | 1 to 4 ft | Fill | 166 Best | | х | | Х | | | | |
| TP-3 | 2 to 4 | Fill | 168 Best | | | Х | Х | | | | |
| TP-5 | 1 to 4.5 ft | Fill | 81 Edna | х | х | | Х | | | | |
| TP-7 | 0.5 to 2.5 ft | Fill | 162 Best | | | Х | Х | | | | |
| TP-7 | 0.5 to 2.5 ft | Fill | 164 Best | | | Х | Х | | | | |
| TP-8 | 3 to 4 ft | Fill | 160 Best | | х | | Х | | | | |
| TP-9 | 0 to 0.5 ft | Fill | 1145 Michigan | | Х | | Х | | | | |
| TP-11 | 2 to 3 ft | Fill | 1145 Michigan | | | х | Х | | | | |
| TP-17 | 2 to 3 ft | Fill | 160 Best | | | х | Х | | | | |
| TP-18 | 2 to 3 | Fill | 162 Best | | | Х | Х | | | | |

Notes:

fbgs - feet below ground surface.

TCL VOC - Total Compound List, Volatile Organic Compounds

TCL SVOCs - Target Compound List, Semivolatile Organic Compounds.

CP-51 - Commissioner's Policy 51 List.

RCRA - Resource Conservation & Recovery Act.



TABLE 3 SUMMARY OF SOIL/FILL SAMPLE ANALYTICAL RESULTS PHASE II ENVIRONMENTAL INVESTIGATION MICHIGAN & BEST (7 PARCELS) **BUFFALO, NEW YORK**

| PARAMETER ¹ | Unrestricted Use SCOs ² | Restricted Residential Use SCOs ³ | Commercial Use SCOs ³ | Industrial Use SCOs³ | TP-1 1-3 FT 168 Best | TP-2 2-5 FT 168 Best | TP-3 1-4 FT 166 Best | TP-3 2-4 FT 168 Best | TP-5 1-4.5 FT 81 Edna | TP-7 0.5-2.5 FT 162 Best | TP-7 0.5-2.5 FT 164 Best | TP-8 3-4 FT 160 Best | TP-9 0.0-0.5 FT 1145 Michigan | TP-11 2-3 FT 1145 Michigan | TP-17 2-3 FT 160 Best | TP-18 2-3 FT 162 Best |
|--|---|--|-------------------------------------|-------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|--------------------------------|--------------------------------|----------------------------|-------------------------------------|----------------------------------|-----------------------------|-----------------------------|
| Volatile Organic Compounds (S) | latile Organic Compounds (SVOCs) - mg/Kg ⁴ | | | | | | | | | | | | | | | |
| Total VOCs | | | | | ND | | | | ND | | | | | | | |
| Semi-Volatile Organic Compounds (SVOCs) - mg/Kg ⁴ | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | | - | | | 0.12 J | | 0.11 J | | 0.092 J | | | 0.051 J | 0.6 J | | | |
| Acenaphthene | 20 | 100 | 500 | 1000 | 0.023 J | ND | 0.051 J | ND | 0.16 J | ND | ND | 0.13 J | 0.6 J | 0.21 | 0.25 | 0.063 J |
| Acenaphthylene | 100 | 100 | 500 | 1000 | ND | ND | 0.08 J | ND | 0.15 J | ND | ND | ND | 1.3 | 0.32 | 0.23 | 0.073 J |
| Anthracene | 100 | 100 | 500 | 1000 | 0.064 J | 0.038 J | 0.22 | ND | 0.56 | ND | 0.04 J | 0.28 | 2 | 0.73 | 0.92 | 0.2 |
| Benzo(a)anthracene | 1 | 1 | 5.6 | 11 | 0.26 | 0.18 | 0.61 | 0.09 J | 1.1 | 0.14 | 0.17 | 0.38 | 7.4 | 1.9 | 2.8 | 0.64 |
| Benzo(a)pyrene | 1 | 1 | 1 | 1.1 | 0.31 | 0.17 | 0.65 | 0.082 J | 0.9 | 0.11 J | 0.14 J | 0.33 | 7.4 | 1.8 | 2.6 | 0.52 |
| Benzo(b)fluoranthene | 1 | 1 | 5.6 | 11 | 0.38 | 0.24 | 0.77 | 0.12 | 1.2 | 0.17 | 0.19 | 0.37 | 9 | 2.2 | 3.3 | 0.73 |
| Benzo(ghi)perylene | 100 | 100 | 500 | 1000 | 0.23 | 0.11 J | 0.44 | 0.066 J | 0.5 | 0.075 J | 0.091 J | 0.17 | 4.4 | 1 | 1.6 | 0.3 |
| Benzo(k)fluoranthene | 0.8 | 3.9 | 56 | 110 | 0.11 J | 0.058 J | 0.31 | ND | 0.44 | 0.038 J | 0.059 J | 0.16 | 3.1 | 0.8 | 1.1 | 0.27 |
| Bis(2-ethylhexyl) phthalate | - | ı | | | ND | | 0.42 | | ND | - | | ND | ND | | - | - |
| Carbazole | | ı | | | 0.028 J | | 0.11 J | | 0.31 | - | | 0.096 J | 1.4 | | - | |
| Chrysene | 1 | 3.9 | 56 | 110 | 0.27 | 0.15 | 0.62 | 0.088 J | 1 | 0.11 | 0.14 | 0.31 | 7.1 | 2 | 2.8 | 0.56 |
| Dibenzofuran | 7 | 59 | 350 | 1000 | 0.046 J | | 0.085 J | | 0.19 J | | | 0.12 J | 1 J | | | |
| Dibenzo (a,h)anthracene | 0.33 | 0.33 | 0.56 | 1.1 | 0.052 J | 0.028 J | 0.097 J | ND | 0.15 | ND | 0.024 J | 0.046 J | 0.99 | 0.26 | 0.43 | 0.071 J |
| Di-n-butyl phthalate | | ı | | | 0.055 J | | ND | | ND | - | | ND | ND | | - | |
| Fluoranthene | 100 | 100 | 500 | 1000 | 0.37 | 0.32 | 1.2 | 0.16 | 2.4 | 0.24 | 0.3 | 0.84 | 17 | 4.2 | 6.2 | 1.2 |
| Fluorene | 30 | 100 | 500 | 1000 | 0.032 J | ND | 0.066 J | ND | 0.28 | ND | 0.023 J | 0.14 J | 1.2 | 0.31 | 0.28 | 0.068 J |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 5.6 | 11 | 0.21 | 0.12 J | 0.45 | 0.079 J | 0.55 | 0.088 J | 0.1 J | 0.16 J | 4.6 | 1.2 | 1.7 | 0.34 |
| Naphthalene | 12 | 100 | 500 | 1000 | 0.075 J | 0.024 J | 0.11 J | 0.025 J | 0.12 J | ND | ND | 0.078 J | 1.2 | 0.29 | 0.16 J | 0.095 J |
| Phenanthrene | 100 | 100 | 500 | 1000 | 0.38 | 0.18 | 0.99 | 0.1 J | 2.2 | 0.12 | 0.18 | 1 | 14 | 3.4 | 4.1 | 0.79 |
| Pyrene | 100 | 100 | 500 | 1000 | 0.36 | 0.28 | 1 | 0.13 | 1.8 | 0.19 | 0.24 | 0.7 | 15 | 3.6 | 5.1 | 0.97 |
| Total Metals - mg/Kg | | | | | | | | | | | | | | | | |
| Arsenic | 13 | 16 | 16 | 16 | 8.1 | 6.04 | 13.6 | 6.14 | 7.92 | 2.84 | 3.35 | 2.93 | 9.58 | 12.9 | 5.58 | 21.6 |
| Barium | 350 | 400 | 400 | 10000 | 179 | 127 | 281 | 166 | 188 | 63.4 | 186 | 53.7 | 132 | 185 | 144 | 433 |
| Cadmium | 2.5 | 4.3 | 9.3 | 60 | 0.704 | 0.755 | 1.31 | 1.26 | 1.48 | 0.506 | 0.992 | 0.447 J | 1.17 | ND | 0.055 J | 2.41 |
| Chromium | 30 | 180 | 1500 | 6800 | 7.83 | 15.2 | 11 | 9.43 | 10.8 | 6.2 | 16.1 | 5.67 | 16 | 21 | 8.13 | 22.8 |
| Lead | 63 | 400 | 1000 | 3900 | 323 | 384 | 847 | 53200 | 1040 | 264 | 2470 | 37.7 | 324 | 1210 | 182 | 3580 |
| Mercury | 0.18 | 0.81 | 2.8 | 5.7 | 0.435 | 0.813 | 1.48 | 0.255 | 1.17 | 0.347 | 0.402 | ND | 0.442 | 0.531 | 0.42 | 0.586 |
| Selenium | 30 | 180 | 1500 | 10000 | 0.426 J | 0.298 J | 0.835 J | 1.3 | 0.514 J | 0.35 J | 0.3 J | 0.383 J | 0.756 J | 1.13 | 0.169 J | 0.89 J |
| Silver | 2 | 180 | 1500 | 6800 | 0.369 J | ND | 0.343 J | 0.896 | 0.168 J | ND | ND | ND | ND | 0.39 | 0.239 J | 0.918 |

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

- Definitions:

 ND = Parameter not detected above laboratory detection limit.

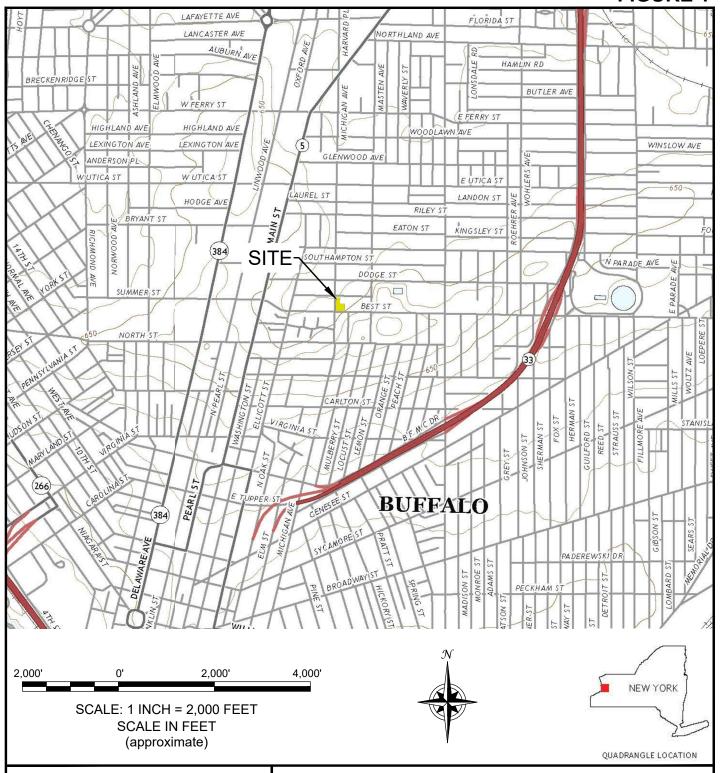
 "--" = No value available for the parameter, or the parameter was not analyzed for.

 J = Estimated value; result is less than the sample quantitation limit but greater than zero.

| BOLD | = Exceeds Unrestricted SCOs |
|------|---------------------------------------|
| BOLD | = Exceeds Restricted Residential SCOs |
| BOLD | = Exceeds Commercial SCOs |
| BOLD | = Exceeds Industrial SCOs |

FIGURES

FIGURE 1





2558 HAMBURG TURNPIKE SUITE 300 BUFFALO, NY 14218 (716) 856-0635

PROJECT NO.: 0371-021-001

DATE: JANUARY 2021

DRAFTED BY: CNK

SITE LOCATION AND VICINITY MAP

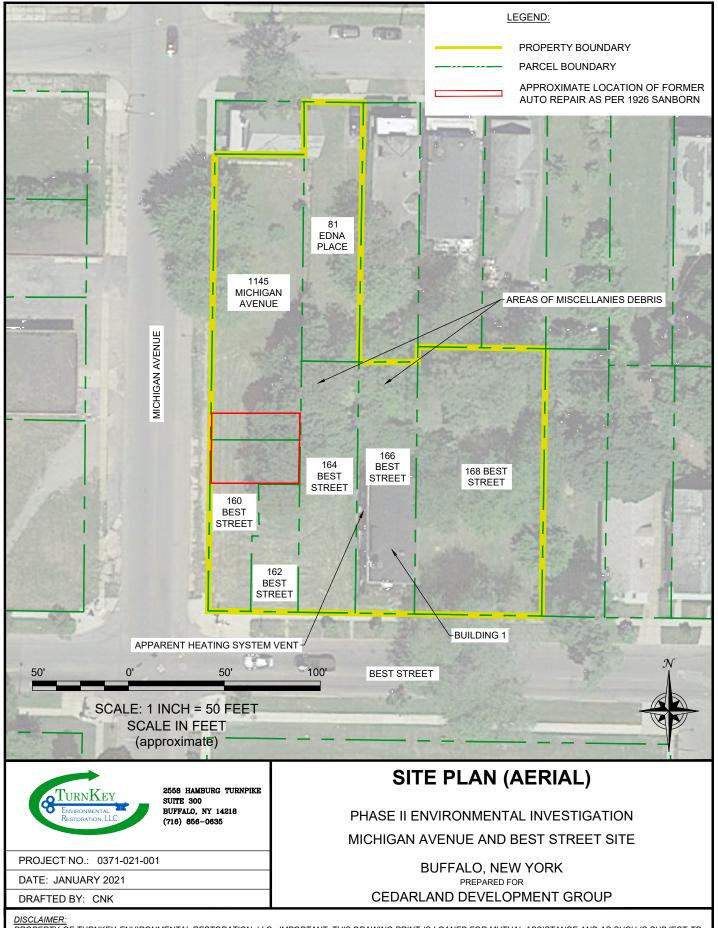
PHASE II ENVIRONMENTAL INVESTIGATION MICHIGAN AVENUE AND BEST STREET SITE

> **BUFFALO, NEW YORK** PREPARED FOR

CEDARLAND DEVELOPMENT GROUP

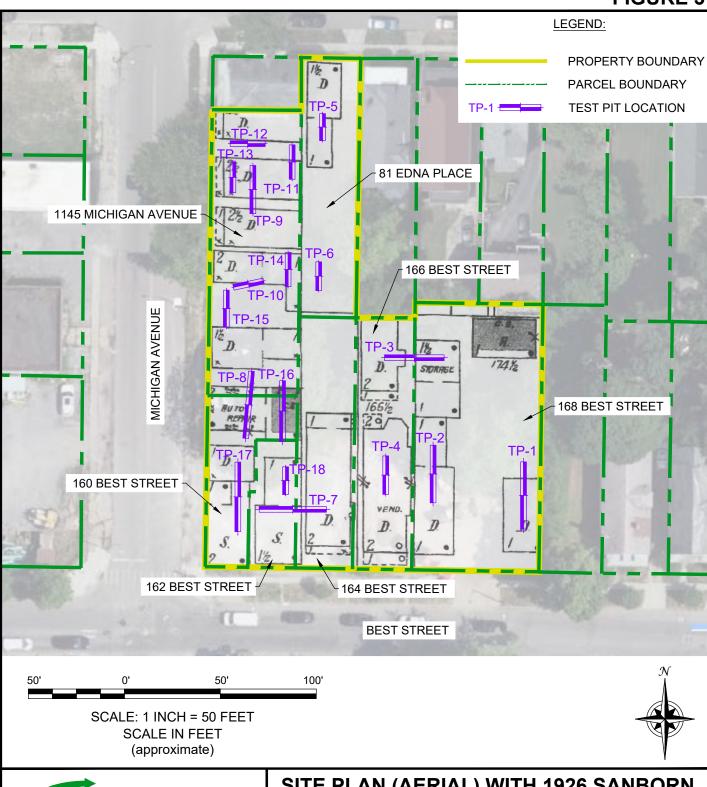
PROPERTY OF TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS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

FIGURE 2



PROPERTY OF TURNKEY ENVIRONMENTAL RESTORATION, LLC. 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 TURNKEY ENVIRONMENTAL RESTORATION, LLC.

FIGURE 3





2558 HAMBURG TURNPIKE SUITE 300 BUFFALO, NY 14218 (716) 856-0635

PROJECT NO.: 0371-021-001

DATE: JANUARY 2021

DRAFTED BY: CNK

SITE PLAN (AERIAL) WITH 1926 SANBORN MAP AND INVESTIGATION LOCATIONS

PHASE II ENVIRONMENTAL INVESTIGATION
MICHIGAN AVENUE AND BEST STREET SITE

BUFFALO, NEW YORK PREPARED FOR

CEDARLAND DEVELOPMENT GROUP

DISCLAIMER:

PROPERTY OF TURNKEY ENVIRONMENTAL RESTORATION, LLC. 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 TURNKEY ENVIRONMENTAL RESTORATION, LLC.

JOB NO.: 0371-021-001

GROUP

DEVELOPMENT

EDANCES Ш EXC PHASE II ENVIRONMENTAL INVESTIGATION SCO AND LOCATIONS MICHIGAN AVENUE INVESTIGATION

FIGURE 4

APPENDIX A

PHOTOGRAPHIC LOG



SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: View of TP-1 located on 168 Best Parcel (looking east).

Photo 2: View of TP-1 excavated soil fill. (looking north)

Photo 3: View of TP-3 excavated between 166 and 168 Best. (looking west)

Photo 4: View of TP-3 Excavated Ash fill located on the 168 Best Parcel. (looking west)

SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: View of TP-5 located on 81 Edna (looking south).

Photo 6: View of TP-5 Excavated fill materials. (looking south).

Photo 7: View of TP-8 Excavated between 160 Best and 1145 Michigan. (looking South).

Photo 8: View of TP-8. Excavated Fill materials on 160 Best (looking east).



Photo Date: January 15, 2021

SITE PHOTOGRAPHS

Photo 9:



Photo 10:



Photo 9: View of TP-9 located on 1145 Michigan (looking north).

Photo 10: View of TP-9 Black cindery topsoil. (looking south).

Michigan and Best Buffalo, NY



Photo Date: January 15, 2021

APPENDIX B

LABORATORY ANALYTICAL DATA REPORTS





ANALYTICAL REPORT

Lab Number: L2102689

Client: Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Suite 300

Buffalo, NY 14218

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

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Report Date: 01/25/21

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

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

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



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

 Lab Number:
 L2102689

 Report Date:
 01/25/21

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|---------------------------------|--------|--------------------|-------------------------|--------------|
| L2102689-01 | TP-1 1-3FT 168 BEST | SOIL | BUFFALO, NY | 01/15/21 08:20 | 01/18/21 |
| L2102689-02 | TP-3 1-4FT 166 BEST | SOIL | BUFFALO, NY | 01/15/21 09:25 | 01/18/21 |
| L2102689-03 | TP-5 1-4.5FT 81 EDNA | SOIL | BUFFALO, NY | 01/15/21 10:50 | 01/18/21 |
| L2102689-04 | TP-8 3-4FT 160 BEST | SOIL | BUFFALO, NY | 01/15/21 14:15 | 01/18/21 |
| L2102689-05 | TP-9 0.0-0.5FT 1145 MICHIGAN | SOIL | BUFFALO, NY | 01/15/21 15:00 | 01/18/21 |



Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

Case Narrative

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

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

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

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

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

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



Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

Case Narrative (continued)

Report Submission

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

Volatile Organics

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

Semivolatile Organics

L2102689-05: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

The WG1456451-3 MS recoveries, performed on L2102689-01, are outside the acceptance criteria for arsenic (174%) and barium (65%). A post digestion spike was performed and was within acceptance criteria.

The WG1456451-3 MS recovery for lead (378%), performed on L2102689-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1456452-3 MS recovery, performed on L2102689-01, is outside the acceptance criteria for mercury (74%). A post digestion spike was performed and was within acceptance criteria.

The WG1456451-4 Laboratory Duplicate RPDs for barium (24%) and chromium (31%), performed on L2102689-01, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

The WG1456452-4 Laboratory Duplicate RPD for mercury (29%), performed on L2102689-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature:

Title: Technical Director/Representative Date: 01/25/21

Melissa Sturgis Melissa Sturgis

ALPHA

ORGANICS



VOLATILES



Serial_No:01252116:36

01/15/21 08:20

Not Specified

Dilution Factor

01/18/21

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Lab Number: L2102689

Report Date: 01/25/21

Date Collected:

Date Received:

Field Prep:

RL

MDL

Result

Lab ID: L2102689-01

Client ID: TP-1 1-3FT 168 BEST

Sample Location: BUFFALO, NY

Sample Depth:

Parameter

Matrix: Soil

1,8260C Analytical Method:

Analytical Date: 01/21/21 09:53

Analyst: MKS 80% Percent Solids:

| Volatile Organics by GC/MS - Westbord | ough Lab | | | | | |
|---------------------------------------|----------|-------|------|------|---|--|
| Methylene chloride | ND | ug/kg | 6.0 | 2.7 | 1 | |
| 1,1-Dichloroethane | ND | ug/kg | 1.2 | 0.17 | 1 | |
| Chloroform | ND | ug/kg | 1.8 | 0.17 | 1 | |
| Carbon tetrachloride | ND | ug/kg | 1.2 | 0.27 | 1 | |
| 1,2-Dichloropropane | ND | ug/kg | 1.2 | 0.15 | 1 | |
| Dibromochloromethane | ND | ug/kg | 1.2 | 0.17 | 1 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 1.2 | 0.32 | 1 | |
| Tetrachloroethene | ND | ug/kg | 0.60 | 0.23 | 1 | |
| Chlorobenzene | ND | ug/kg | 0.60 | 0.15 | 1 | |
| Trichlorofluoromethane | ND | ug/kg | 4.8 | 0.83 | 1 | |
| 1,2-Dichloroethane | ND | ug/kg | 1.2 | 0.31 | 1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 0.60 | 0.20 | 1 | |
| Bromodichloromethane | ND | ug/kg | 0.60 | 0.13 | 1 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 1.2 | 0.33 | 1 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 0.60 | 0.19 | 1 | |
| Bromoform | ND | ug/kg | 4.8 | 0.29 | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 0.60 | 0.20 | 1 | |
| Benzene | ND | ug/kg | 0.60 | 0.20 | 1 | |
| Toluene | ND | ug/kg | 1.2 | 0.65 | 1 | |
| Ethylbenzene | ND | ug/kg | 1.2 | 0.17 | 1 | |
| Chloromethane | ND | ug/kg | 4.8 | 1.1 | 1 | |
| Bromomethane | ND | ug/kg | 2.4 | 0.69 | 1 | |
| Vinyl chloride | ND | ug/kg | 1.2 | 0.40 | 1 | |
| Chloroethane | ND | ug/kg | 2.4 | 0.54 | 1 | |
| 1,1-Dichloroethene | ND | ug/kg | 1.2 | 0.28 | 1 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 1.8 | 0.16 | 1 | |
| Trichloroethene | ND | ug/kg | 0.60 | 0.16 | 1 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 2.4 | 0.17 | 1 | |

Qualifier

Units



Serial_No:01252116:36

MDL

Dilution Factor

Project Name: MICHIGAN & BEST Lab Number: L2102689

Project Number: T0371-021-001 **Report Date:** 01/25/21

SAMPLE RESULTS

Qualifier

Units

RL

Lab ID: L2102689-01 Date Collected: 01/15/21 08:20

Client ID: TP-1 1-3FT 168 BEST Date Received: 01/18/21

Sample Location: BUFFALO, NY Field Prep: Not Specified

Result

Sample Depth:

Parameter

| i didilicitoi | | | | | 2 | |
|------------------------------------|------------|-------|-----|------|---|--|
| Volatile Organics by GC/MS - Westb | orough Lab | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 2.4 | 0.18 | 1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 2.4 | 0.20 | 1 | |
| Methyl tert butyl ether | ND | ug/kg | 2.4 | 0.24 | 1 | |
| p/m-Xylene | ND | ug/kg | 2.4 | 0.67 | 1 | |
| o-Xylene | ND | ug/kg | 1.2 | 0.35 | 1 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 1.2 | 0.21 | 1 | |
| Styrene | ND | ug/kg | 1.2 | 0.23 | 1 | |
| Dichlorodifluoromethane | ND | ug/kg | 12 | 1.1 | 1 | |
| Acetone | ND | ug/kg | 12 | 5.7 | 1 | |
| Carbon disulfide | ND | ug/kg | 12 | 5.4 | 1 | |
| 2-Butanone | ND | ug/kg | 12 | 2.6 | 1 | |
| 4-Methyl-2-pentanone | ND | ug/kg | 12 | 1.5 | 1 | |
| 2-Hexanone | ND | ug/kg | 12 | 1.4 | 1 | |
| Bromochloromethane | ND | ug/kg | 2.4 | 0.24 | 1 | |
| 1,2-Dibromoethane | ND | ug/kg | 1.2 | 0.33 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 3.6 | 1.2 | 1 | |
| Isopropylbenzene | ND | ug/kg | 1.2 | 0.13 | 1 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 2.4 | 0.38 | 1 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 2.4 | 0.32 | 1 | |
| Methyl Acetate | ND | ug/kg | 4.8 | 1.1 | 1 | |
| Cyclohexane | ND | ug/kg | 12 | 0.65 | 1 | |
| 1,4-Dioxane | ND | ug/kg | 96 | 42. | 1 | |
| Freon-113 | ND | ug/kg | 4.8 | 0.83 | 1 | |
| Methyl cyclohexane | ND | ug/kg | 4.8 | 0.72 | 1 | |
| | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 | |
| Toluene-d8 | 101 | | 70-130 | |
| 4-Bromofluorobenzene | 104 | | 70-130 | |
| Dibromofluoromethane | 107 | | 70-130 | |



Serial_No:01252116:36

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2102689

Report Date: 01/25/21

SAMPLE RESULTS

Lab ID: L2102689-03 Date Collected: 01/15/21 10:50

Client ID: Date Received: 01/18/21 TP-5 1-4.5FT 81 EDNA Field Prep: Sample Location: BUFFALO, NY Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8260C Analytical Date: 01/21/21 10:18

Analyst: MKS 78% Percent Solids:

| 1,1-Dichloroethane Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane | ND ND ND ND ND ND ND ND ND | ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | 5.8 1.2 1.7 1.2 | 2.6 0.17 0.16 0.26 | 1 1 1 |
|---|----------------------------|--|--------------------------|-----------------------------|-------------|
| 1,1-Dichloroethane Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane | ND ND ND ND ND | ug/kg ug/kg ug/kg ug/kg | 1.2 1.7 1.2 | 0.17 0.16 | 1 |
| Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane | ND ND ND | ug/kg ug/kg ug/kg | 1.7 1.2 | 0.16 | |
| Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane | ND ND ND | ug/kg ug/kg | 1.2 | | 1 |
| 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane | ND ND | ug/kg | | 0.26 | ı |
| Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane | ND | | | 0.20 | 1 |
| 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane | | ug/ka | 1.2 | 0.14 | 1 |
| Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane | ND | و٠٠٠ق | 1.2 | 0.16 | 1 |
| Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane | | ug/kg | 1.2 | 0.31 | 1 |
| Trichlorofluoromethane 1,2-Dichloroethane | ND | ug/kg | 0.58 | 0.23 | 1 |
| 1,2-Dichloroethane | ND | ug/kg | 0.58 | 0.15 | 1 |
| · | ND | ug/kg | 4.6 | 0.80 | 1 |
| 1 1 1-Trichloroethane | ND | ug/kg | 1.2 | 0.30 | 1 |
| 1,1,1 Themerodulane | ND | ug/kg | 0.58 | 0.19 | 1 |
| Bromodichloromethane | ND | ug/kg | 0.58 | 0.12 | 1 |
| trans-1,3-Dichloropropene | ND | ug/kg | 1.2 | 0.32 | 1 |
| cis-1,3-Dichloropropene | ND | ug/kg | 0.58 | 0.18 | 1 |
| Bromoform | ND | ug/kg | 4.6 | 0.28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 0.58 | 0.19 | 1 |
| Benzene | ND | ug/kg | 0.58 | 0.19 | 1 |
| Toluene | ND | ug/kg | 1.2 | 0.63 | 1 |
| Ethylbenzene | ND | ug/kg | 1.2 | 0.16 | 1 |
| Chloromethane | ND | ug/kg | 4.6 | 1.1 | 1 |
| Bromomethane | ND | ug/kg | 2.3 | 0.67 | 1 |
| Vinyl chloride | ND | ug/kg | 1.2 | 0.39 | 1 |
| Chloroethane | ND | ug/kg | 2.3 | 0.52 | 1 |
| 1,1-Dichloroethene | ND | ug/kg | 1.2 | 0.27 | 1 |
| trans-1,2-Dichloroethene | ND | ug/kg | 1.7 | 0.16 | 1 |
| Trichloroethene | ND | # | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 0.58 | 0.16 | 1 |



L2102689

Project Name: Lab Number: MICHIGAN & BEST

Project Number: Report Date: T0371-021-001 01/25/21

SAMPLE RESULTS

Lab ID: L2102689-03 Date Collected: 01/15/21 10:50

Client ID: Date Received: TP-5 1-4.5FT 81 EDNA 01/18/21 Sample Location: Field Prep: BUFFALO, NY Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------|--------------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Wes | tborough Lab | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 2.3 | 0.17 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 2.3 | 0.20 | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 2.3 | 0.23 | 1 |
| p/m-Xylene | ND | | ug/kg | 2.3 | 0.65 | 1 |
| o-Xylene | ND | | ug/kg | 1.2 | 0.34 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 1.2 | 0.20 | 1 |
| Styrene | ND | | ug/kg | 1.2 | 0.23 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 12 | 1.0 | 1 |
| Acetone | ND | | ug/kg | 12 | 5.6 | 1 |
| Carbon disulfide | ND | | ug/kg | 12 | 5.2 | 1 |
| 2-Butanone | ND | | ug/kg | 12 | 2.6 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 12 | 1.5 | 1 |
| 2-Hexanone | ND | | ug/kg | 12 | 1.4 | 1 |
| Bromochloromethane | ND | | ug/kg | 2.3 | 0.24 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 1.2 | 0.32 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.5 | 1.2 | 1 |
| Isopropylbenzene | ND | | ug/kg | 1.2 | 0.12 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 2.3 | 0.37 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 2.3 | 0.31 | 1 |
| Methyl Acetate | ND | | ug/kg | 4.6 | 1.1 | 1 |
| Cyclohexane | ND | | ug/kg | 12 | 0.63 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 92 | 40. | 1 |
| Freon-113 | ND | | ug/kg | 4.6 | 0.80 | 1 |
| Methyl cyclohexane | ND | | ug/kg | 4.6 | 0.70 | 1 |
| | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 108 | 70-130 | |
| Toluene-d8 | 100 | 70-130 | |
| 4-Bromofluorobenzene | 100 | 70-130 | |
| Dibromofluoromethane | 105 | 70-130 | |



L2102689

Project Name: MICHIGAN & BEST Lab Number:

Project Number: T0371-021-001 **Report Date:** 01/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 01/21/21 06:31

Analyst: MV

| arameter | Result | Qualifier | Units | 1 | RL | MDL |
|-----------------------------|-----------------|------------|-------|-------|--------|-------------|
| olatile Organics by GC/MS - | Westborough Lab | for sample | e(s): | 01,03 | Batch: | WG1457485-5 |
| Methylene chloride | ND | | ug/ko | 9 | 5.0 | 2.3 |
| 1,1-Dichloroethane | ND | | ug/ko | 3 | 1.0 | 0.14 |
| Chloroform | ND | | ug/ko | 9 | 1.5 | 0.14 |
| Carbon tetrachloride | ND | | ug/ko | 9 | 1.0 | 0.23 |
| 1,2-Dichloropropane | ND | | ug/ko | 9 | 1.0 | 0.12 |
| Dibromochloromethane | ND | | ug/ko | 9 | 1.0 | 0.14 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 9 | 1.0 | 0.27 |
| Tetrachloroethene | ND | | ug/kg | 9 | 0.50 | 0.20 |
| Chlorobenzene | ND | | ug/kg | 9 | 0.50 | 0.13 |
| Trichlorofluoromethane | ND | | ug/ko | 9 | 4.0 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/ko | 9 | 1.0 | 0.26 |
| 1,1,1-Trichloroethane | ND | | ug/ko | 9 | 0.50 | 0.17 |
| Bromodichloromethane | ND | | ug/ko | 9 | 0.50 | 0.11 |
| trans-1,3-Dichloropropene | ND | | ug/ko | 9 | 1.0 | 0.27 |
| cis-1,3-Dichloropropene | ND | | ug/ko | 9 | 0.50 | 0.16 |
| Bromoform | ND | | ug/ko | 9 | 4.0 | 0.25 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/ko | 9 | 0.50 | 0.17 |
| Benzene | ND | | ug/ko | 9 | 0.50 | 0.17 |
| Toluene | ND | | ug/ko | 9 | 1.0 | 0.54 |
| Ethylbenzene | ND | | ug/ko | 9 | 1.0 | 0.14 |
| Chloromethane | ND | | ug/ko | 9 | 4.0 | 0.93 |
| Bromomethane | 1.0 | J | ug/ko | 9 | 2.0 | 0.58 |
| Vinyl chloride | ND | | ug/ko | 9 | 1.0 | 0.34 |
| Chloroethane | ND | | ug/ko | 9 | 2.0 | 0.45 |
| 1,1-Dichloroethene | ND | | ug/ko | 9 | 1.0 | 0.24 |
| trans-1,2-Dichloroethene | ND | | ug/ko | 9 | 1.5 | 0.14 |
| Trichloroethene | ND | | ug/ko | 3 | 0.50 | 0.14 |
| 1,2-Dichlorobenzene | ND | | ug/ko | 9 | 2.0 | 0.14 |
| 1,3-Dichlorobenzene | ND | | ug/ko | 3 | 2.0 | 0.15 |



Project Name: MICHIGAN & BEST Lab Number: L2102689

Project Number: T0371-021-001 **Report Date:** 01/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 01/21/21 06:31

Analyst: MV

| Parameter | Result | Qualifier | Units | 5 | RL | MDL | |
|-----------------------------------|--------------|------------|-------|-------|--------|-------------|---|
| Volatile Organics by GC/MS - West | tborough Lab | for sample | e(s): | 01,03 | Batch: | WG1457485-5 | |
| 1,4-Dichlorobenzene | ND | | ug/k | g | 2.0 | 0.17 | |
| Methyl tert butyl ether | ND | | ug/k | g | 2.0 | 0.20 | _ |
| p/m-Xylene | ND | | ug/k | g | 2.0 | 0.56 | |
| o-Xylene | ND | | ug/k | g | 1.0 | 0.29 | _ |
| cis-1,2-Dichloroethene | ND | | ug/k | g | 1.0 | 0.18 | |
| Styrene | ND | | ug/k | g | 1.0 | 0.20 | |
| Dichlorodifluoromethane | ND | | ug/k | g | 10 | 0.92 | |
| Acetone | ND | | ug/k | g | 10 | 4.8 | |
| Carbon disulfide | ND | | ug/k | g | 10 | 4.6 | |
| 2-Butanone | ND | | ug/k | g | 10 | 2.2 | |
| 4-Methyl-2-pentanone | ND | | ug/k | g | 10 | 1.3 | |
| 2-Hexanone | ND | | ug/k | g | 10 | 1.2 | |
| Bromochloromethane | ND | | ug/k | g | 2.0 | 0.20 | |
| 1,2-Dibromoethane | ND | | ug/k | g | 1.0 | 0.28 | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/k | g | 3.0 | 1.0 | |
| Isopropylbenzene | ND | | ug/k | g | 1.0 | 0.11 | |
| 1,2,3-Trichlorobenzene | ND | | ug/k | g | 2.0 | 0.32 | |
| 1,2,4-Trichlorobenzene | ND | | ug/k | g | 2.0 | 0.27 | |
| Methyl Acetate | ND | | ug/k | g | 4.0 | 0.95 | |
| Cyclohexane | ND | | ug/k | g | 10 | 0.54 | |
| 1,4-Dioxane | ND | | ug/k | g | 80 | 35. | |
| Freon-113 | ND | | ug/k | g | 4.0 | 0.69 | |
| Methyl cyclohexane | ND | | ug/k | g | 4.0 | 0.60 | |
| | | | | | | | |



Project Name: MICHIGAN & BEST Lab Number: L2102689

Project Number: T0371-021-001 **Report Date:** 01/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 01/21/21 06:31

Analyst: MV

Parameter Result Qualifier Units RL MDL

Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1457485-5

| | | A | cceptance | |
|-----------------------|-----------|-----------|-----------|--|
| Surrogate | %Recovery | Qualifier | Criteria | |
| | | | | |
| 1,2-Dichloroethane-d4 | 108 | | 70-130 | |
| Toluene-d8 | 99 | | 70-130 | |
| 4-Bromofluorobenzene | 99 | | 70-130 | |
| Dibromofluoromethane | 98 | | 70-130 | |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2102689

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | RPD Qual Limits |
|--|--------------------|------------|-------------------|-------------|---------------------|-----|--------------------|
| Volatile Organics by GC/MS - Westborou | ugh Lab Associated | sample(s): | 01,03 Batch: | WG1457485-3 | WG1457485-4 | | |
| Methylene chloride | 92 | | 90 | | 70-130 | 2 | 30 |
| 1,1-Dichloroethane | 94 | | 92 | | 70-130 | 2 | 30 |
| Chloroform | 95 | | 92 | | 70-130 | 3 | 30 |
| Carbon tetrachloride | 95 | | 94 | | 70-130 | 1 | 30 |
| 1,2-Dichloropropane | 92 | | 92 | | 70-130 | 0 | 30 |
| Dibromochloromethane | 96 | | 93 | | 70-130 | 3 | 30 |
| 1,1,2-Trichloroethane | 95 | | 91 | | 70-130 | 4 | 30 |
| Tetrachloroethene | 84 | | 84 | | 70-130 | 0 | 30 |
| Chlorobenzene | 86 | | 83 | | 70-130 | 4 | 30 |
| Trichlorofluoromethane | 95 | | 98 | | 70-139 | 3 | 30 |
| 1,2-Dichloroethane | 99 | | 97 | | 70-130 | 2 | 30 |
| 1,1,1-Trichloroethane | 89 | | 91 | | 70-130 | 2 | 30 |
| Bromodichloromethane | 93 | | 94 | | 70-130 | 1 | 30 |
| trans-1,3-Dichloropropene | 93 | | 95 | | 70-130 | 2 | 30 |
| cis-1,3-Dichloropropene | 87 | | 90 | | 70-130 | 3 | 30 |
| Bromoform | 100 | | 98 | | 70-130 | 2 | 30 |
| 1,1,2,2-Tetrachloroethane | 82 | | 87 | | 70-130 | 6 | 30 |
| Benzene | 86 | | 85 | | 70-130 | 1 | 30 |
| Toluene | 88 | | 86 | | 70-130 | 2 | 30 |
| Ethylbenzene | 93 | | 89 | | 70-130 | 4 | 30 |
| Chloromethane | 91 | | 88 | | 52-130 | 3 | 30 |
| Bromomethane | 101 | | 100 | | 57-147 | 1 | 30 |
| Vinyl chloride | 94 | | 95 | | 67-130 | 1 | 30 |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2102689

| Parameter | LCS %Recovery | Qual 9 | LCSD %Recovery | Qual | %Recovery Limits | RPD | RPD Qual Limits |
|------------------------------|----------------------------|-----------------|-------------------|-------------|---------------------|-----|--------------------|
| Volatile Organics by GC/MS - | Westborough Lab Associated | sample(s): 01,0 | 3 Batch: V | VG1457485-3 | WG1457485-4 | | |
| Chloroethane | 102 | | 102 | | 50-151 | 0 | 30 |
| 1,1-Dichloroethene | 91 | | 90 | | 65-135 | 1 | 30 |
| trans-1,2-Dichloroethene | 92 | | 92 | | 70-130 | 0 | 30 |
| Trichloroethene | 91 | | 87 | | 70-130 | 4 | 30 |
| 1,2-Dichlorobenzene | 88 | | 87 | | 70-130 | 1 | 30 |
| 1,3-Dichlorobenzene | 84 | | 86 | | 70-130 | 2 | 30 |
| 1,4-Dichlorobenzene | 83 | | 86 | | 70-130 | 4 | 30 |
| Methyl tert butyl ether | 102 | | 99 | | 66-130 | 3 | 30 |
| p/m-Xylene | 85 | | 83 | | 70-130 | 2 | 30 |
| o-Xylene | 86 | | 83 | | 70-130 | 4 | 30 |
| cis-1,2-Dichloroethene | 93 | | 90 | | 70-130 | 3 | 30 |
| Styrene | 92 | | 89 | | 70-130 | 3 | 30 |
| Dichlorodifluoromethane | 86 | | 87 | | 30-146 | 1 | 30 |
| Acetone | 100 | | 94 | | 54-140 | 6 | 30 |
| Carbon disulfide | 83 | | 82 | | 59-130 | 1 | 30 |
| 2-Butanone | 87 | | 83 | | 70-130 | 5 | 30 |
| 4-Methyl-2-pentanone | 92 | | 89 | | 70-130 | 3 | 30 |
| 2-Hexanone | 93 | | 90 | | 70-130 | 3 | 30 |
| Bromochloromethane | 93 | | 91 | | 70-130 | 2 | 30 |
| 1,2-Dibromoethane | 91 | | 86 | | 70-130 | 6 | 30 |
| 1,2-Dibromo-3-chloropropane | 97 | | 96 | | 68-130 | 1 | 30 |
| Isopropylbenzene | 87 | | 88 | | 70-130 | 1 | 30 |
| 1,2,3-Trichlorobenzene | 87 | | 88 | | 70-130 | 1 | 30 |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102689

Report Date:

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | %Recovery Limits | RPD | Qual | RPD Limits | |
|---|------------------|------|-------------------|---------------------|-----|------|---------------|--|
| Volatile Organics by GC/MS - Westborough La | - | | 01,03 Batch: | WG1457485-4 | | | | |
| 1,2,4-Trichlorobenzene | 83 | | 88 | 70-130 | 6 | | 30 | |
| Methyl Acetate | 94 | | 92 | 51-146 | 2 | | 30 | |
| Cyclohexane | 88 | | 89 | 59-142 | 1 | | 30 | |
| 1,4-Dioxane | 79 | | 96 | 65-136 | 19 | | 30 | |
| Freon-113 | 91 | | 94 | 50-139 | 3 | | 30 | |
| Methyl cyclohexane | 86 | | 89 | 70-130 | 3 | | 30 | |

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|-----------------------|-----------------------|------------------------|------------------------|
| 1,2-Dichloroethane-d4 | 101 | 103 | 70-130 |
| Toluene-d8 | 100 | 100 | 70-130 |
| 4-Bromofluorobenzene | 98 | 100 | 70-130 |
| Dibromofluoromethane | 101 | 102 | 70-130 |

SEMIVOLATILES



L2102689

01/15/21 08:20

01/18/21

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Lab Number:

Date Collected:

Date Received:

Report Date: 01/25/21

Lab ID: L2102689-01

Client ID: TP-1 1-3FT 168 BEST

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8270D

Analytical Date: 01/20/21 12:06

Analyst: IM 80% Percent Solids:

Extraction Method: EPA 3546 **Extraction Date:** 01/19/21 11:45

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|------------------------------------|-----------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - V | Vestborough Lab | | | | | | |
| Acenaphthene | 23 | J | ug/kg | 160 | 21. | 1 | |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 200 | 24. | 1 | |
| Hexachlorobenzene | ND | | ug/kg | 120 | 23. | 1 | |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 180 | 28. | 1 | |
| 2-Chloronaphthalene | ND | | ug/kg | 200 | 20. | 1 | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 200 | 37. | 1 | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 200 | 35. | 1 | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 200 | 36. | 1 | |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 200 | 55. | 1 | |
| 2,4-Dinitrotoluene | ND | | ug/kg | 200 | 41. | 1 | |
| 2,6-Dinitrotoluene | ND | | ug/kg | 200 | 35. | 1 | |
| Fluoranthene | 370 | | ug/kg | 120 | 24. | 1 | |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 200 | 22. | 1 | |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 200 | 31. | 1 | |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 250 | 35. | 1 | |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 220 | 21. | 1 | |
| Hexachlorobutadiene | ND | | ug/kg | 200 | 30. | 1 | |
| Hexachlorocyclopentadiene | ND | | ug/kg | 590 | 190 | 1 | |
| Hexachloroethane | ND | | ug/kg | 160 | 33. | 1 | |
| Isophorone | ND | | ug/kg | 180 | 27. | 1 | |
| Naphthalene | 75 | J | ug/kg | 200 | 25. | 1 | |
| Nitrobenzene | ND | | ug/kg | 180 | 30. | 1 | |
| NDPA/DPA | ND | | ug/kg | 160 | 23. | 1 | |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 200 | 32. | 1 | |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 200 | 71. | 1 | |
| Butyl benzyl phthalate | ND | | ug/kg | 200 | 52. | 1 | |
| Di-n-butylphthalate | 55 | J | ug/kg | 200 | 39. | 1 | |
| Di-n-octylphthalate | ND | | ug/kg | 200 | 70. | 1 | |
| | | | | | | | |



L2102689

01/25/21

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Date Collected: 01/15/21 08:20

Lab ID: L2102689-01

Client ID: TP-1 1-3FT 168 BEST

Sample Location: BUFFALO, NY Date Received: 01/18/21

Lab Number:

Report Date:

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|------------------------------------|-----------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - V | Vestborough Lab | | | | | |
| Diethyl phthalate | ND | | ug/kg | 200 | 19. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 200 | 43. | 1 |
| Benzo(a)anthracene | 260 | | ug/kg | 120 | 23. | 1 |
| Benzo(a)pyrene | 310 | | ug/kg | 160 | 50. | 1 |
| Benzo(b)fluoranthene | 380 | | ug/kg | 120 | 35. | 1 |
| Benzo(k)fluoranthene | 110 | J | ug/kg | 120 | 33. | 1 |
| Chrysene | 270 | | ug/kg | 120 | 21. | 1 |
| Acenaphthylene | ND | | ug/kg | 160 | 32. | 1 |
| Anthracene | 64 | J | ug/kg | 120 | 40. | 1 |
| Benzo(ghi)perylene | 230 | | ug/kg | 160 | 24. | 1 |
| Fluorene | 32 | J | ug/kg | 200 | 20. | 1 |
| Phenanthrene | 380 | | ug/kg | 120 | 25. | 1 |
| Dibenzo(a,h)anthracene | 52 | J | ug/kg | 120 | 24. | 1 |
| Indeno(1,2,3-cd)pyrene | 210 | | ug/kg | 160 | 29. | 1 |
| Pyrene | 360 | | ug/kg | 120 | 20. | 1 |
| Biphenyl | ND | | ug/kg | 470 | 48. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 200 | 37. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 200 | 40. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 200 | 39. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 200 | 85. | 1 |
| Dibenzofuran | 46 | J | ug/kg | 200 | 19. | 1 |
| 2-Methylnaphthalene | 120 | J | ug/kg | 250 | 25. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 200 | 21. | 1 |
| Acetophenone | ND | | ug/kg | 200 | 25. | 1 |
| Benzyl Alcohol | ND | | ug/kg | 200 | 63. | 1 |
| Carbazole | 28 | J | ug/kg | 200 | 20. | 1 |
| | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria |
|----------------------|------------|----------------------------------|
| 2-Fluorophenol | 56 | 25-120 |
| Phenol-d6 | 55 | 10-120 |
| Nitrobenzene-d5 | 63 | 23-120 |
| 2-Fluorobiphenyl | 71 | 30-120 |
| 2,4,6-Tribromophenol | 82 | 10-136 |
| 4-Terphenyl-d14 | 61 | 18-120 |



L2102689

01/15/21 09:25

Not Specified

01/18/21

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Report Date: 01/25/21

Lab Number:

Date Collected:

Date Received:

Field Prep:

L2102689-02

Client ID: TP-3 1-4FT 166 BEST

Sample Location: BUFFALO, NY

Sample Depth:

Lab ID:

Matrix: Soil Analytical Method: 1,8270D Analytical Date: 01/20/21 12:29

Analyst: IM 84% Percent Solids:

Extraction Method: EPA 3546 **Extraction Date:** 01/19/21 11:45

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------------|-------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - West | oorough Lab | | | | | |
| Acenaphthene | 51 | J | ug/kg | 160 | 20. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 190 | 22. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 120 | 22. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 180 | 26. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 190 | 19. | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 190 | 35. | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 190 | 33. | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 190 | 34. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 190 | 52. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 190 | 39. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 190 | 33. | 1 |
| Fluoranthene | 1200 | | ug/kg | 120 | 22. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 190 | 21. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 190 | 30. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 230 | 33. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 210 | 19. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 190 | 28. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 560 | 180 | 1 |
| Hexachloroethane | ND | | ug/kg | 160 | 31. | 1 |
| Isophorone | ND | | ug/kg | 180 | 25. | 1 |
| Naphthalene | 110 | J | ug/kg | 190 | 24. | 1 |
| Nitrobenzene | ND | | ug/kg | 180 | 29. | 1 |
| NDPA/DPA | ND | | ug/kg | 160 | 22. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 190 | 30. | 1 |
| Bis(2-ethylhexyl)phthalate | 420 | | ug/kg | 190 | 67. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 190 | 49. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 190 | 37. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 190 | 66. | 1 |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Report Date: 01/25/21

. topo

Lab ID: L2102689-02

Client ID: TP-3 1-4FT 166 BEST

Sample Location: BUFFALO, NY

Date Collected:

Lab Number:

01/15/21 09:25

L2102689

Date Received:

01/18/21

Field Prep:

Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------|-----------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - | Westborough Lab | | | | | |
| Diethyl phthalate | ND | | ug/kg | 190 | 18. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 190 | 41. | 1 |
| Benzo(a)anthracene | 610 | | ug/kg | 120 | 22. | 1 |
| Benzo(a)pyrene | 650 | | ug/kg | 160 | 47. | 1 |
| Benzo(b)fluoranthene | 770 | | ug/kg | 120 | 33. | 1 |
| Benzo(k)fluoranthene | 310 | | ug/kg | 120 | 31. | 1 |
| Chrysene | 620 | | ug/kg | 120 | 20. | 1 |
| Acenaphthylene | 80 | J | ug/kg | 160 | 30. | 1 |
| Anthracene | 220 | | ug/kg | 120 | 38. | 1 |
| Benzo(ghi)perylene | 440 | | ug/kg | 160 | 23. | 1 |
| Fluorene | 66 | J | ug/kg | 190 | 19. | 1 |
| Phenanthrene | 990 | | ug/kg | 120 | 24. | 1 |
| Dibenzo(a,h)anthracene | 97 | J | ug/kg | 120 | 22. | 1 |
| Indeno(1,2,3-cd)pyrene | 450 | | ug/kg | 160 | 27. | 1 |
| Pyrene | 1000 | | ug/kg | 120 | 19. | 1 |
| Biphenyl | ND | | ug/kg | 440 | 45. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 190 | 35. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 190 | 38. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 190 | 37. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 190 | 80. | 1 |
| Dibenzofuran | 85 | J | ug/kg | 190 | 18. | 1 |
| 2-Methylnaphthalene | 110 | J | ug/kg | 230 | 24. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 190 | 20. | 1 |
| Acetophenone | ND | | ug/kg | 190 | 24. | 1 |
| Benzyl Alcohol | ND | | ug/kg | 190 | 60. | 1 |
| Carbazole | 110 | J | ug/kg | 190 | 19. | 1 |
| | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria |
|----------------------|------------|----------------------------------|
| 2-Fluorophenol | 65 | 25-120 |
| Phenol-d6 | 63 | 10-120 |
| Nitrobenzene-d5 | 67 | 23-120 |
| 2-Fluorobiphenyl | 72 | 30-120 |
| 2,4,6-Tribromophenol | 88 | 10-136 |
| 4-Terphenyl-d14 | 63 | 18-120 |



L2102689

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Lab Number:

Report Date: 01/25/21

Lab ID: L2102689-03

Client ID: TP-5 1-4.5FT 81 EDNA

Sample Location: BUFFALO, NY

Sample Depth:

Matrix: Soil Analytical Method: 1,8270D Analytical Date: 01/20/21 13:13

Analyst: IM 78% Percent Solids:

Date Collected: 01/15/21 10:50

Date Received: 01/18/21

Field Prep: Not Specified

Extraction Method: EPA 3546 **Extraction Date:** 01/19/21 11:45

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------|--------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Wes | tborough Lab | | | | | |
| Acenaphthene | 160 | J | ug/kg | 170 | 22. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 210 | 24. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 130 | 24. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 190 | 29. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 210 | 21. | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 210 | 38. | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 210 | 37. | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 210 | 37. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 210 | 57. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 210 | 43. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 210 | 37. | 1 |
| Fluoranthene | 2400 | | ug/kg | 130 | 24. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 210 | 23. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 210 | 32. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 260 | 36. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 230 | 21. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 210 | 31. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 610 | 190 | 1 |
| Hexachloroethane | ND | | ug/kg | 170 | 34. | 1 |
| Isophorone | ND | | ug/kg | 190 | 28. | 1 |
| Naphthalene | 120 | J | ug/kg | 210 | 26. | 1 |
| Nitrobenzene | ND | | ug/kg | 190 | 32. | 1 |
| NDPA/DPA | ND | | ug/kg | 170 | 24. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 210 | 33. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 210 | 74. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 210 | 54. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 210 | 40. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 210 | 72. | 1 |

L2102689

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

01/15/21 10:50

Report Date: 01/25/21

Lab ID: L2102689-03

Client ID: TP-5 1-4.5FT 81 EDNA

Sample Location: BUFFALO, NY Date Collected: Date Received: 01/18/21

Lab Number:

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------|-----------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - | Westborough Lab | | | | | |
| Diethyl phthalate | ND | | ug/kg | 210 | 20. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 210 | 45. | 1 |
| Benzo(a)anthracene | 1100 | | ug/kg | 130 | 24. | 1 |
| Benzo(a)pyrene | 900 | | ug/kg | 170 | 52. | 1 |
| Benzo(b)fluoranthene | 1200 | | ug/kg | 130 | 36. | 1 |
| Benzo(k)fluoranthene | 440 | | ug/kg | 130 | 34. | 1 |
| Chrysene | 1000 | | ug/kg | 130 | 22. | 1 |
| Acenaphthylene | 150 | J | ug/kg | 170 | 33. | 1 |
| Anthracene | 560 | | ug/kg | 130 | 42. | 1 |
| Benzo(ghi)perylene | 500 | | ug/kg | 170 | 25. | 1 |
| Fluorene | 280 | | ug/kg | 210 | 21. | 1 |
| Phenanthrene | 2200 | | ug/kg | 130 | 26. | 1 |
| Dibenzo(a,h)anthracene | 150 | | ug/kg | 130 | 25. | 1 |
| Indeno(1,2,3-cd)pyrene | 550 | | ug/kg | 170 | 30. | 1 |
| Pyrene | 1800 | | ug/kg | 130 | 21. | 1 |
| Biphenyl | ND | | ug/kg | 490 | 49. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 210 | 39. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 210 | 41. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 210 | 40. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 210 | 88. | 1 |
| Dibenzofuran | 190 | J | ug/kg | 210 | 20. | 1 |
| 2-Methylnaphthalene | 92 | J | ug/kg | 260 | 26. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 210 | 22. | 1 |
| Acetophenone | ND | | ug/kg | 210 | 26. | 1 |
| Benzyl Alcohol | ND | | ug/kg | 210 | 65. | 1 |
| Carbazole | 310 | | ug/kg | 210 | 21. | 1 |
| | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria |
|----------------------|------------|----------------------------------|
| 2-Fluorophenol | 71 | 25-120 |
| Phenol-d6 | 69 | 10-120 |
| Nitrobenzene-d5 | 71 | 23-120 |
| 2-Fluorobiphenyl | 73 | 30-120 |
| 2,4,6-Tribromophenol | 95 | 10-136 |
| 4-Terphenyl-d14 | 64 | 18-120 |



L2102689

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Report Date: 01/25/21

Lab Number:

Lab ID: L2102689-04

Client ID: TP-8 3-4FT 160 BEST

Sample Location: BUFFALO, NY

Sample Depth:

Matrix: Soil Analytical Method: 1,8270D

Analytical Date: 01/20/21 11:44

Analyst: IM 78% Percent Solids:

Date Collected: 01/15/21 14:15

Date Received: 01/18/21

Field Prep: Not Specified

Extraction Method: EPA 3546 **Extraction Date:** 01/19/21 11:45

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|------------------------------------|-----------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - V | Vestborough Lab | | | | | |
| Acenaphthene | 130 | J | ug/kg | 170 | 22. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 210 | 24. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 120 | 23. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 190 | 28. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 210 | 21. | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 210 | 38. | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 210 | 36. | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 210 | 37. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 210 | 56. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 210 | 42. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 210 | 36. | 1 |
| Fluoranthene | 840 | | ug/kg | 120 | 24. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 210 | 22. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 210 | 32. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 250 | 36. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 230 | 21. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 210 | 31. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 600 | 190 | 1 |
| Hexachloroethane | ND | | ug/kg | 170 | 34. | 1 |
| Isophorone | ND | | ug/kg | 190 | 27. | 1 |
| Naphthalene | 78 | J | ug/kg | 210 | 26. | 1 |
| Nitrobenzene | ND | | ug/kg | 190 | 31. | 1 |
| NDPA/DPA | ND | | ug/kg | 170 | 24. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 210 | 32. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 210 | 72. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 210 | 53. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 210 | 40. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 210 | 71. | 1 |

L2102689

01/25/21

Dilution Factor

Project Name: MICHIGAN & BEST

L2102689-04

BUFFALO, NY

TP-8 3-4FT 160 BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Qualifier

Units

Result

Date Collected: 01/15/21 14:15

RL

Lab Number:

Report Date:

Date Received: 01/18/21

Field Prep: Not Specified

MDL

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Parameter

| raiaillelei | Result | Qualifici | Office | 11. | IIIDL | Dilution ractor | |
|------------------------------------|-----------------|-----------|--------|-----|-------|-----------------|--|
| Semivolatile Organics by GC/MS - V | Vestborough Lab | | | | | | |
| Diethyl phthalate | ND | | ug/kg | 210 | 19. | 1 | |
| Dimethyl phthalate | ND | | ug/kg | 210 | 44. | 1 | |
| Benzo(a)anthracene | 380 | | ug/kg | 120 | 24. | 1 | |
| Benzo(a)pyrene | 330 | | ug/kg | 170 | 51. | 1 | |
| Benzo(b)fluoranthene | 370 | | ug/kg | 120 | 35. | 1 | |
| Benzo(k)fluoranthene | 160 | | ug/kg | 120 | 34. | 1 | |
| Chrysene | 310 | | ug/kg | 120 | 22. | 1 | |
| Acenaphthylene | ND | | ug/kg | 170 | 32. | 1 | |
| Anthracene | 280 | | ug/kg | 120 | 41. | 1 | |
| Benzo(ghi)perylene | 170 | | ug/kg | 170 | 25. | 1 | |
| Fluorene | 140 | J | ug/kg | 210 | 20. | 1 | |
| Phenanthrene | 1000 | | ug/kg | 120 | 26. | 1 | |
| Dibenzo(a,h)anthracene | 46 | J | ug/kg | 120 | 24. | 1 | |
| Indeno(1,2,3-cd)pyrene | 160 | J | ug/kg | 170 | 29. | 1 | |
| Pyrene | 700 | | ug/kg | 120 | 21. | 1 | |
| Biphenyl | ND | | ug/kg | 480 | 49. | 1 | |
| 4-Chloroaniline | ND | | ug/kg | 210 | 38. | 1 | |
| 2-Nitroaniline | ND | | ug/kg | 210 | 40. | 1 | |
| 3-Nitroaniline | ND | | ug/kg | 210 | 40. | 1 | |
| 4-Nitroaniline | ND | | ug/kg | 210 | 87. | 1 | |
| Dibenzofuran | 120 | J | ug/kg | 210 | 20. | 1 | |
| 2-Methylnaphthalene | 51 | J | ug/kg | 250 | 25. | 1 | |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 210 | 22. | 1 | |
| Acetophenone | ND | | ug/kg | 210 | 26. | 1 | |
| Benzyl Alcohol | ND | | ug/kg | 210 | 64. | 1 | |
| Carbazole | 96 | J | ug/kg | 210 | 20. | 1 | |
| | | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria |
|----------------------|------------|----------------------------------|
| 2-Fluorophenol | 58 | 25-120 |
| Phenol-d6 | 59 | 10-120 |
| Nitrobenzene-d5 | 59 | 23-120 |
| 2-Fluorobiphenyl | 66 | 30-120 |
| 2,4,6-Tribromophenol | 81 | 10-136 |
| 4-Terphenyl-d14 | 61 | 18-120 |



L2102689

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Report Date: 01/25/21

Lab Number:

Lab ID: D L2102689-05

TP-9 0.0-0.5FT 1145 MICHIGAN Client ID:

Sample Location: BUFFALO, NY

Sample Depth:

Matrix: Soil Analytical Method: 1,8270D Analytical Date: 01/22/21 21:23

Analyst: SZ 77% Percent Solids:

Date Collected: 01/15/21 15:00

Date Received: 01/18/21

Field Prep: Not Specified

Extraction Method: EPA 3546 **Extraction Date:** 01/19/21 11:45

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|------------------------------------|-----------------|-----------|-------|------|-----|-----------------|--|
| Semivolatile Organics by GC/MS - V | Vestborough Lab | | | | | | |
| Acenaphthene | 600 | J | ug/kg | 860 | 110 | 5 | |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 1100 | 120 | 5 | |
| Hexachlorobenzene | ND | | ug/kg | 650 | 120 | 5 | |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 970 | 150 | 5 | |
| 2-Chloronaphthalene | ND | | ug/kg | 1100 | 110 | 5 | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 1100 | 190 | 5 | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 1100 | 180 | 5 | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 1100 | 190 | 5 | |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 1100 | 290 | 5 | |
| 2,4-Dinitrotoluene | ND | | ug/kg | 1100 | 220 | 5 | |
| 2,6-Dinitrotoluene | ND | | ug/kg | 1100 | 180 | 5 | |
| Fluoranthene | 17000 | | ug/kg | 650 | 120 | 5 | |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 1100 | 120 | 5 | |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 1100 | 160 | 5 | |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 1300 | 180 | 5 | |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 1200 | 110 | 5 | |
| Hexachlorobutadiene | ND | | ug/kg | 1100 | 160 | 5 | |
| Hexachlorocyclopentadiene | ND | | ug/kg | 3100 | 980 | 5 | |
| Hexachloroethane | ND | | ug/kg | 860 | 170 | 5 | |
| Isophorone | ND | | ug/kg | 970 | 140 | 5 | |
| Naphthalene | 1200 | | ug/kg | 1100 | 130 | 5 | |
| Nitrobenzene | ND | | ug/kg | 970 | 160 | 5 | |
| NDPA/DPA | ND | | ug/kg | 860 | 120 | 5 | |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 1100 | 170 | 5 | |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 1100 | 370 | 5 | |
| Butyl benzyl phthalate | ND | | ug/kg | 1100 | 270 | 5 | |
| Di-n-butylphthalate | ND | | ug/kg | 1100 | 200 | 5 | |
| Di-n-octylphthalate | ND | | ug/kg | 1100 | 370 | 5 | |

L2102689

01/25/21

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Date Collected: 01/15/21 15:00

Lab Number:

Report Date:

Lab ID: L2102689-05 D Date Coll

Client ID: TP-9 0.0-0.5FT 1145 MICHIGAN Date Received: 01/18/21

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------|-----------------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - | Westborough Lab | | | | | |
| Diethyl phthalate | ND | | ug/kg | 1100 | 100 | 5 |
| Dimethyl phthalate | ND | | ug/kg | 1100 | 230 | 5 |
| Benzo(a)anthracene | 7400 | | ug/kg | 650 | 120 | 5 |
| Benzo(a)pyrene | 7400 | | ug/kg | 860 | 260 | 5 |
| Benzo(b)fluoranthene | 9000 | | ug/kg | 650 | 180 | 5 |
| Benzo(k)fluoranthene | 3100 | | ug/kg | 650 | 170 | 5 |
| Chrysene | 7100 | | ug/kg | 650 | 110 | 5 |
| Acenaphthylene | 1300 | | ug/kg | 860 | 170 | 5 |
| Anthracene | 2000 | | ug/kg | 650 | 210 | 5 |
| Benzo(ghi)perylene | 4400 | | ug/kg | 860 | 130 | 5 |
| Fluorene | 1200 | | ug/kg | 1100 | 100 | 5 |
| Phenanthrene | 14000 | | ug/kg | 650 | 130 | 5 |
| Dibenzo(a,h)anthracene | 990 | | ug/kg | 650 | 120 | 5 |
| Indeno(1,2,3-cd)pyrene | 4600 | | ug/kg | 860 | 150 | 5 |
| Pyrene | 15000 | | ug/kg | 650 | 110 | 5 |
| Biphenyl | ND | | ug/kg | 2400 | 250 | 5 |
| 4-Chloroaniline | ND | | ug/kg | 1100 | 200 | 5 |
| 2-Nitroaniline | ND | | ug/kg | 1100 | 210 | 5 |
| 3-Nitroaniline | ND | | ug/kg | 1100 | 200 | 5 |
| 4-Nitroaniline | ND | | ug/kg | 1100 | 440 | 5 |
| Dibenzofuran | 1000 | J | ug/kg | 1100 | 100 | 5 |
| 2-Methylnaphthalene | 600 | J | ug/kg | 1300 | 130 | 5 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 1100 | 110 | 5 |
| Acetophenone | ND | | ug/kg | 1100 | 130 | 5 |
| Benzyl Alcohol | ND | | ug/kg | 1100 | 330 | 5 |
| Carbazole | 1400 | | ug/kg | 1100 | 100 | 5 |
| | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria |
|----------------------|------------|----------------------------------|
| 2-Fluorophenol | 55 | 25-120 |
| Phenol-d6 | 65 | 10-120 |
| Nitrobenzene-d5 | 71 | 23-120 |
| 2-Fluorobiphenyl | 75 | 30-120 |
| 2,4,6-Tribromophenol | 79 | 10-136 |
| 4-Terphenyl-d14 | 63 | 18-120 |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102689

Report Date: 01/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Analytical Date: 01/20/21 07:40

Analyst: IM

Extraction Method: EPA 3546

Extraction Date: 01/19/21 05:04

| arameter | Result | Qualifier U | nits | RL | | MDL |
|------------------------------|------------------|-------------|---------|-------|--------|-------------|
| emivolatile Organics by GC/M | 1S - Westborough | Lab for sam | ple(s): | 01-05 | Batch: | WG1456224-1 |
| Acenaphthene | ND | u | ıg/kg | 130 | | 17. |
| 1,2,4-Trichlorobenzene | ND | u | ıg/kg | 160 | | 19. |
| Hexachlorobenzene | ND | u | ıg/kg | 99 | | 18. |
| Bis(2-chloroethyl)ether | ND | u | ıg/kg | 150 | | 22. |
| 2-Chloronaphthalene | ND | u | ıg/kg | 160 | | 16. |
| 1,2-Dichlorobenzene | ND | u | ıg/kg | 160 | | 30. |
| 1,3-Dichlorobenzene | ND | u | ıg/kg | 160 | | 28. |
| 1,4-Dichlorobenzene | ND | u | ıg/kg | 160 | | 29. |
| 3,3'-Dichlorobenzidine | ND | u | ıg/kg | 160 | | 44. |
| 2,4-Dinitrotoluene | ND | u | ıg/kg | 160 | | 33. |
| 2,6-Dinitrotoluene | ND | u | ıg/kg | 160 | | 28. |
| Fluoranthene | ND | u | ıg/kg | 99 | | 19. |
| 4-Chlorophenyl phenyl ether | ND | u | ıg/kg | 160 | | 18. |
| 4-Bromophenyl phenyl ether | ND | u | ıg/kg | 160 | | 25. |
| Bis(2-chloroisopropyl)ether | ND | u | ıg/kg | 200 | | 28. |
| Bis(2-chloroethoxy)methane | ND | u | ıg/kg | 180 | | 16. |
| Hexachlorobutadiene | ND | u | ıg/kg | 160 | | 24. |
| Hexachlorocyclopentadiene | ND | u | ıg/kg | 470 | | 150 |
| Hexachloroethane | ND | u | ıg/kg | 130 | | 27. |
| Isophorone | ND | u | ıg/kg | 150 | | 21. |
| Naphthalene | ND | u | ıg/kg | 160 | | 20. |
| Nitrobenzene | ND | u | ıg/kg | 150 | | 24. |
| NDPA/DPA | ND | u | ıg/kg | 130 | | 19. |
| n-Nitrosodi-n-propylamine | ND | u | ıg/kg | 160 | | 26. |

ND

ND

ND

ND

ND

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

160

160

160

160

160



57.

42.

31.

56.

15.

Bis(2-ethylhexyl)phthalate

Butyl benzyl phthalate

Di-n-butylphthalate

Di-n-octylphthalate

Diethyl phthalate

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001 Lab Number:

L2102689

Report Date: 01/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date:

1,8270D 01/20/21 07:40

Analyst:

IM

Extraction Method: EPA 3546

01/19/21 05:04 **Extraction Date:**

| Parameter | Result | Qualifier | Units | RL | | MDL |
|------------------------------------|-------------|-----------|-----------|-------|--------|-------------|
| Semivolatile Organics by GC/MS - \ | Vestborough | Lab for s | ample(s): | 01-05 | Batch: | WG1456224-1 |
| Dimethyl phthalate | ND | | ug/kg | 160 | | 35. |
| 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. |
| Biphenyl | ND | | ug/kg | 380 | | 38. |
| 4-Chloroaniline | ND | | ug/kg | 160 | | 30. |
| 2-Nitroaniline | ND | | ug/kg | 160 | | 32. |
| 3-Nitroaniline | ND | | ug/kg | 160 | | 31. |
| 4-Nitroaniline | ND | | ug/kg | 160 | | 68. |
| Dibenzofuran | ND | | ug/kg | 160 | | 16. |
| 2-Methylnaphthalene | ND | | ug/kg | 200 | | 20. |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 160 | | 17. |
| Acetophenone | ND | | ug/kg | 160 | | 20. |
| Benzyl Alcohol | ND | | ug/kg | 160 | | 51. |
| Carbazole | ND | | ug/kg | 160 | | 16. |



Project Name: MICHIGAN & BEST Lab Number: L2102689

Project Number: T0371-021-001 **Report Date:** 01/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3546

Analytical Date: 01/20/21 07:40 Extraction Date: 01/19/21 05:04

Analyst: IM

Parameter Result Qualifier Units RL MDL

Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1456224-1

| Surrogate | %Recovery (| Acceptance Qualifier Criteria |
|----------------------|-------------|----------------------------------|
| | , | |
| 2-Fluorophenol | 89 | 25-120 |
| Phenol-d6 | 85 | 10-120 |
| Nitrobenzene-d5 | 76 | 23-120 |
| 2-Fluorobiphenyl | 97 | 30-120 |
| 2,4,6-Tribromophenol | 110 | 10-136 |
| 4-Terphenyl-d14 | 108 | 18-120 |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2102689

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | %Recovery Qual Limits | RPD | RPD Qual Limits |
|---|------------------|------------------|-------------------|--------------------------|-------|--------------------|
| Semivolatile Organics by GC/MS - Westbore | ough Lab Assoc | iated sample(s): | 01-05 Ba | tch: WG1456224-2 WG14562 | 224-3 | |
| Acenaphthene | 76 | | 80 | 31-137 | 5 | 50 |
| 1,2,4-Trichlorobenzene | 72 | | 76 | 38-107 | 5 | 50 |
| Hexachlorobenzene | 99 | | 103 | 40-140 | 4 | 50 |
| Bis(2-chloroethyl)ether | 69 | | 72 | 40-140 | 4 | 50 |
| 2-Chloronaphthalene | 75 | | 78 | 40-140 | 4 | 50 |
| 1,2-Dichlorobenzene | 69 | | 75 | 40-140 | 8 | 50 |
| 1,3-Dichlorobenzene | 71 | | 77 | 40-140 | 8 | 50 |
| 1,4-Dichlorobenzene | 69 | | 74 | 28-104 | 7 | 50 |
| 3,3'-Dichlorobenzidine | 68 | | 71 | 40-140 | 4 | 50 |
| 2,4-Dinitrotoluene | 79 | | 84 | 40-132 | 6 | 50 |
| 2,6-Dinitrotoluene | 81 | | 83 | 40-140 | 2 | 50 |
| Fluoranthene | 80 | | 82 | 40-140 | 2 | 50 |
| 4-Chlorophenyl phenyl ether | 80 | | 85 | 40-140 | 6 | 50 |
| 4-Bromophenyl phenyl ether | 91 | | 91 | 40-140 | 0 | 50 |
| Bis(2-chloroisopropyl)ether | 53 | | 58 | 40-140 | 9 | 50 |
| Bis(2-chloroethoxy)methane | 70 | | 75 | 40-117 | 7 | 50 |
| Hexachlorobutadiene | 81 | | 88 | 40-140 | 8 | 50 |
| Hexachlorocyclopentadiene | 56 | | 59 | 40-140 | 5 | 50 |
| Hexachloroethane | 66 | | 72 | 40-140 | 9 | 50 |
| Isophorone | 66 | | 71 | 40-140 | 7 | 50 |
| Naphthalene | 74 | | 79 | 40-140 | 7 | 50 |
| Nitrobenzene | 64 | | 70 | 40-140 | 9 | 50 |
| NDPA/DPA | 78 | | 81 | 36-157 | 4 | 50 |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2102689

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | %Recovery Qual Limits | RPD | RPD Qual Limits |
|----------------------------------|-----------------------|------------------|-------------------|--------------------------|--------|--------------------|
| Semivolatile Organics by GC/MS - | Westborough Lab Assoc | iated sample(s): | 01-05 Bat | ch: WG1456224-2 WG1456 | 6224-3 | |
| n-Nitrosodi-n-propylamine | 69 | | 72 | 32-121 | 4 | 50 |
| Bis(2-ethylhexyl)phthalate | 82 | | 82 | 40-140 | 0 | 50 |
| Butyl benzyl phthalate | 80 | | 80 | 40-140 | 0 | 50 |
| Di-n-butylphthalate | 84 | | 83 | 40-140 | 1 | 50 |
| Di-n-octylphthalate | 78 | | 78 | 40-140 | 0 | 50 |
| Diethyl phthalate | 79 | | 79 | 40-140 | 0 | 50 |
| Dimethyl phthalate | 78 | | 78 | 40-140 | 0 | 50 |
| Benzo(a)anthracene | 79 | | 81 | 40-140 | 3 | 50 |
| Benzo(a)pyrene | 82 | | 86 | 40-140 | 5 | 50 |
| Benzo(b)fluoranthene | 86 | | 88 | 40-140 | 2 | 50 |
| Benzo(k)fluoranthene | 76 | | 83 | 40-140 | 9 | 50 |
| Chrysene | 78 | | 81 | 40-140 | 4 | 50 |
| Acenaphthylene | 82 | | 84 | 40-140 | 2 | 50 |
| Anthracene | 82 | | 86 | 40-140 | 5 | 50 |
| Benzo(ghi)perylene | 82 | | 90 | 40-140 | 9 | 50 |
| Fluorene | 77 | | 81 | 40-140 | 5 | 50 |
| Phenanthrene | 77 | | 79 | 40-140 | 3 | 50 |
| Dibenzo(a,h)anthracene | 84 | | 90 | 40-140 | 7 | 50 |
| Indeno(1,2,3-cd)pyrene | 81 | | 87 | 40-140 | 7 | 50 |
| Pyrene | 81 | | 84 | 35-142 | 4 | 50 |
| Biphenyl | 81 | | 85 | 37-127 | 5 | 50 |
| 4-Chloroaniline | 56 | | 63 | 40-140 | 12 | 50 |
| 2-Nitroaniline | 78 | | 79 | 47-134 | 1 | 50 |
| | | | | | | |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2102689

| arameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | |
|---------------------------------|-------------------------|-----------------|-------------------|-----------|---------------------|------|------|---------------|--|
| emivolatile Organics by GC/MS - | Westborough Lab Associa | ated sample(s): | 01-05 Bato | h: WG1456 | 6224-2 WG14562 | 24-3 | | | |
| 3-Nitroaniline | 56 | | 63 | | 26-129 | 12 | | 50 | |
| 4-Nitroaniline | 70 | | 71 | | 41-125 | 1 | | 50 | |
| Dibenzofuran | 78 | | 81 | | 40-140 | 4 | | 50 | |
| 2-Methylnaphthalene | 73 | | 78 | | 40-140 | 7 | | 50 | |
| 1,2,4,5-Tetrachlorobenzene | 92 | | 97 | | 40-117 | 5 | | 50 | |
| Acetophenone | 70 | | 75 | | 14-144 | 7 | | 50 | |
| Benzyl Alcohol | 70 | | 73 | | 40-140 | 4 | | 50 | |
| Carbazole | 80 | | 82 | | 54-128 | 2 | | 50 | |

| | LCS | LCSD | Acceptance |
|----------------------|--------------|-------------------|------------|
| Surrogate | %Recovery Qu | ual %Recovery Qua | Criteria |
| 2-Fluorophenol | 79 | 81 | 25-120 |
| Phenol-d6 | 75 | 80 | 10-120 |
| Nitrobenzene-d5 | 68 | 74 | 23-120 |
| 2-Fluorobiphenyl | 84 | 88 | 30-120 |
| 2,4,6-Tribromophenol | 110 | 111 | 10-136 |
| 4-Terphenyl-d14 | 96 | 98 | 18-120 |

METALS



01/15/21 08:20

Date Collected:

Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

SAMPLE RESULTS

Lab ID: L2102689-01

Client ID: TP-1 1-3FT 168 BEST Date Received: 01/18/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Percent Solids: | 80% | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 8.10 | | mg/kg | 0.479 | 0.100 | 1 | 01/20/21 02:47 | 7 01/25/21 12:41 | EPA 3050B | 1,6010D | GD |
| Barium, Total | 179 | | mg/kg | 0.479 | 0.083 | 1 | 01/20/21 02:47 | 7 01/25/21 12:41 | EPA 3050B | 1,6010D | GD |
| Cadmium, Total | 0.704 | | mg/kg | 0.479 | 0.047 | 1 | 01/20/21 02:47 | 7 01/25/21 12:41 | EPA 3050B | 1,6010D | GD |
| Chromium, Total | 7.83 | | mg/kg | 0.479 | 0.046 | 1 | 01/20/21 02:47 | 7 01/25/21 12:41 | EPA 3050B | 1,6010D | GD |
| Lead, Total | 323 | | mg/kg | 2.40 | 0.128 | 1 | 01/20/21 02:47 | 7 01/25/21 12:41 | EPA 3050B | 1,6010D | GD |
| Mercury, Total | 0.435 | | mg/kg | 0.101 | 0.066 | 1 | 01/20/21 02:52 | 2 01/22/21 19:52 | EPA 7471B | 1,7471B | BV |
| Selenium, Total | 0.426 | J | mg/kg | 0.958 | 0.124 | 1 | 01/20/21 02:47 | 7 01/25/21 12:41 | EPA 3050B | 1,6010D | GD |
| Silver, Total | 0.369 | J | mg/kg | 0.479 | 0.136 | 1 | 01/20/21 02:47 | 7 01/25/21 12:41 | EPA 3050B | 1,6010D | GD |



01/15/21 09:25

Date Collected:

Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

SAMPLE RESULTS

Lab ID: L2102689-02

Client ID: TP-3 1-4FT 166 BEST Date Received: 01/18/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Percent Solids: | 84% | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 13.6 | | mg/kg | 0.464 | 0.097 | 1 | 01/20/21 02:47 | 7 01/25/21 13:14 | EPA 3050B | 1,6010D | GD |
| Barium, Total | 281 | | mg/kg | 0.464 | 0.081 | 1 | 01/20/21 02:47 | 7 01/25/21 13:14 | EPA 3050B | 1,6010D | GD |
| Cadmium, Total | 1.31 | | mg/kg | 0.464 | 0.046 | 1 | 01/20/21 02:47 | 7 01/25/21 13:14 | EPA 3050B | 1,6010D | GD |
| Chromium, Total | 11.0 | | mg/kg | 0.464 | 0.045 | 1 | 01/20/21 02:47 | 7 01/25/21 13:14 | EPA 3050B | 1,6010D | GD |
| Lead, Total | 847 | | mg/kg | 2.32 | 0.124 | 1 | 01/20/21 02:47 | 7 01/25/21 13:14 | EPA 3050B | 1,6010D | GD |
| Mercury, Total | 1.48 | | mg/kg | 0.079 | 0.052 | 1 | 01/20/21 02:52 | 2 01/22/21 20:32 | EPA 7471B | 1,7471B | BV |
| Selenium, Total | 0.835 | J | mg/kg | 0.928 | 0.120 | 1 | 01/20/21 02:47 | 7 01/25/21 13:14 | EPA 3050B | 1,6010D | GD |
| Silver, Total | 0.343 | J | mg/kg | 0.464 | 0.131 | 1 | 01/20/21 02:47 | 7 01/25/21 13:14 | EPA 3050B | 1,6010D | GD |



01/15/21 10:50

Date Collected:

Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

SAMPLE RESULTS

Lab ID: L2102689-03

Client ID: TP-5 1-4.5FT 81 EDNA Date Received: 01/18/21
Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 78%

Prep Dilution Date Date Analytical Method **Parameter** Result Qualifier Units Factor **Prepared** Analyzed Method RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 7.92 mg/kg 0.494 0.103 1 01/20/21 02:47 01/25/21 13:19 EPA 3050B 1,6010D GD Barium, Total 188 mg/kg 0.494 0.086 1 01/20/21 02:47 01/25/21 13:19 EPA 3050B 1,6010D GD 1 Cadmium, Total 1.48 mg/kg 0.494 0.048 01/20/21 02:47 01/25/21 13:19 EPA 3050B 1,6010D GD 1 Chromium, Total 10.8 mg/kg 0.494 0.047 01/20/21 02:47 01/25/21 13:19 EPA 3050B 1,6010D GD 1040 2.47 0.132 01/20/21 02:47 01/25/21 13:19 EPA 3050B 1,6010D GD Lead, Total mg/kg 1 1,7471B Mercury, Total 1.17 0.097 0.063 1 01/20/21 02:52 01/22/21 20:35 EPA 7471B BV mg/kg J Selenium, Total 0.514 mg/kg 0.988 0.128 1 01/20/21 02:47 01/25/21 13:19 EPA 3050B 1,6010D GD Silver, Total 0.168 J 0.494 0.140 1 01/20/21 02:47 01/25/21 13:19 EPA 3050B 1,6010D GD mg/kg



01/15/21 14:15

Date Collected:

Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

SAMPLE RESULTS

Lab ID: L2102689-04

Client ID: TP-8 3-4FT 160 BEST Date Received: 01/18/21
Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 78%

Prep Dilution Date Date Analytical Method **Parameter** Result Qualifier Units Factor **Prepared** Analyzed Method RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 2.93 mg/kg 0.497 0.103 1 01/20/21 02:47 01/25/21 13:24 EPA 3050B 1,6010D GD Barium, Total 53.7 mg/kg 0.497 0.087 1 01/20/21 02:47 01/25/21 13:24 EPA 3050B 1,6010D GD J 1 Cadmium, Total 0.447 mg/kg 0.497 0.049 01/20/21 02:47 01/25/21 13:24 EPA 3050B 1,6010D GD 1 Chromium, Total 5.67 mg/kg 0.497 0.048 01/20/21 02:47 01/25/21 13:24 EPA 3050B 1,6010D GD 37.7 0.133 01/20/21 02:47 01/25/21 13:24 EPA 3050B 1,6010D GD Lead, Total mg/kg 2.48 1 1,7471B Mercury, Total ND 0.085 0.056 1 01/20/21 02:52 01/22/21 21:22 EPA 7471B BV mg/kg J Selenium, Total 0.383 mg/kg 0.994 0.128 1 01/20/21 02:47 01/25/21 13:24 EPA 3050B 1,6010D GD Silver, Total ND 0.497 0.141 1 01/20/21 02:47 01/25/21 13:24 EPA 3050B 1,6010D GD mg/kg



01/15/21 15:00

Date Collected:

Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

SAMPLE RESULTS

Lab ID: L2102689-05

Client ID: TP-9 0.0-0.5FT 1145 MICHIGAN Date Received: 01/18/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 77%

| Percent Solids: | 1170 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 9.58 | | mg/kg | 0.504 | 0.105 | 1 | 01/20/21 02:47 | 7 01/25/21 13:29 | EPA 3050B | 1,6010D | GD |
| Barium, Total | 132 | | mg/kg | 0.504 | 0.088 | 1 | 01/20/21 02:47 | 7 01/25/21 13:29 | EPA 3050B | 1,6010D | GD |
| Cadmium, Total | 1.17 | | mg/kg | 0.504 | 0.049 | 1 | 01/20/21 02:47 | 7 01/25/21 13:29 | EPA 3050B | 1,6010D | GD |
| Chromium, Total | 16.0 | | mg/kg | 0.504 | 0.048 | 1 | 01/20/21 02:47 | 7 01/25/21 13:29 | EPA 3050B | 1,6010D | GD |
| Lead, Total | 324 | | mg/kg | 2.52 | 0.135 | 1 | 01/20/21 02:47 | 7 01/25/21 13:29 | EPA 3050B | 1,6010D | GD |
| Mercury, Total | 0.442 | | mg/kg | 0.095 | 0.062 | 1 | 01/20/21 02:52 | 01/22/21 21:25 | EPA 7471B | 1,7471B | BV |
| Selenium, Total | 0.756 | J | mg/kg | 1.01 | 0.130 | 1 | 01/20/21 02:47 | 01/25/21 13:29 | EPA 3050B | 1,6010D | GD |
| Silver, Total | ND | | mg/kg | 0.504 | 0.143 | 1 | 01/20/21 02:47 | 7 01/25/21 13:29 | EPA 3050B | 1,6010D | GD |



Project Name: MICHIGAN & BEST
Project Number: T0371-021-001

 Lab Number:
 L2102689

 Report Date:
 01/25/21

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--------------------------|-----------|-----------|---------|----------|--------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield | Lab for s | ample(s): | 01-05 B | atch: Wo | G14564 | 51-1 | | | | |
| Arsenic, Total | 0.092 | J | mg/kg | 0.400 | 0.083 | 1 | 01/20/21 02:47 | 01/25/21 11:20 | 1,6010D | GD |
| Barium, Total | ND | | mg/kg | 0.400 | 0.070 | 1 | 01/20/21 02:47 | 01/25/21 11:20 | 1,6010D | GD |
| Cadmium, Total | ND | | mg/kg | 0.400 | 0.039 | 1 | 01/20/21 02:47 | 01/25/21 11:20 | 1,6010D | GD |
| Chromium, Total | 0.124 | J | mg/kg | 0.400 | 0.038 | 1 | 01/20/21 02:47 | 01/25/21 11:20 | 1,6010D | GD |
| Lead, Total | ND | | mg/kg | 2.00 | 0.107 | 1 | 01/20/21 02:47 | 01/25/21 11:20 | 1,6010D | GD |
| Selenium, Total | ND | | mg/kg | 0.800 | 0.103 | 1 | 01/20/21 02:47 | 01/25/21 11:20 | 1,6010D | GD |
| Silver, Total | ND | | mg/kg | 0.400 | 0.113 | 1 | 01/20/21 02:47 | 01/25/21 11:20 | 1,6010D | GD |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | l Analyst |
|------------------------|------------------------|---------|----------|--------|--------------------|------------------|------------------|----------------------|--------------|
| Total Metals - Mansfie | eld Lab for sample(s): | 01-05 B | atch: Wo | G14564 | 52-1 | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | 0.054 | 1 | 01/20/21 02:52 | 01/22/21 19:45 | 1,7471B | BV |

Prep Information

Digestion Method: EPA 7471B



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102689

Report Date:

| arameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|-------------|-------------------|------------|---------------------|-----|------|------------|
| otal Metals - Mansfield Lab Associated sample | e(s): 01-05 Ba | atch: WG145 | 6451-2 SRM L | ot Number: | D109-540 | | | |
| Arsenic, Total | 106 | | - | | 70-130 | - | | |
| Barium, Total | 98 | | - | | 75-125 | - | | |
| Cadmium, Total | 98 | | - | | 75-125 | - | | |
| Chromium, Total | 103 | | - | | 70-130 | - | | |
| Lead, Total | 97 | | - | | 72-128 | - | | |
| Selenium, Total | 100 | | - | | 68-132 | - | | |
| Silver, Total | 99 | | - | | 68-131 | - | | |
| otal Metals - Mansfield Lab Associated sample | e(s): 01-05 Ba | atch: WG145 | 6452-2 SRM L | ot Number: | D109-540 | | | |
| Mercury, Total | 98 | | - | | 60-140 | - | | |

Matrix Spike Analysis Batch Quality Control

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102689

Report Date:

| arameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery Q | Recovery ual Limits | RPD (| RPD Qual Limits |
|------------------------------|------------------|----------------|-------------|-----------------|--------|--------------|--------------------|------------------------|-----------|--------------------|
| Total Metals - Mansfield Lab | Associated san | nple(s): 01-05 | QC Ba | tch ID: WG145 | 6451-3 | QC San | nple: L2102689-01 | Client ID: TF | P-1 1-3FT | 168 BEST |
| Arsenic, Total | 8.10 | 11.6 | 28.4 | 174 | Q | - | - | 75-125 | - | 20 |
| Barium, Total | 179 | 194 | 306 | 65 | Q | - | - | 75-125 | - | 20 |
| Cadmium, Total | 0.704 | 4.95 | 4.99 | 86 | | - | - | 75-125 | - | 20 |
| Chromium, Total | 7.83 | 19.4 | 24.5 | 86 | | - | - | 75-125 | - | 20 |
| Lead, Total | 323 | 49.5 | 510 | 378 | Q | - | - | 75-125 | - | 20 |
| Selenium, Total | 0.426J | 11.6 | 9.28 | 80 | | - | - | 75-125 | - | 20 |
| Silver, Total | 0.369J | 29.1 | 31.4 | 108 | | - | - | 75-125 | - | 20 |
| otal Metals - Mansfield Lab | Associated san | nple(s): 01-05 | QC Ba | tch ID: WG145 | 6452-3 | QC San | nple: L2102689-01 | Client ID: TF | P-1 1-3FT | 168 BEST |
| Mercury, Total | 0.435 | 0.157 | 0.551 | 74 | Q | - | - | 80-120 | - | 20 |

Lab Duplicate Analysis Batch Quality Control

Project Name: MICHIGAN & BEST **Project Number:** T0371-021-001

Lab Number:

L2102689

Report Date:

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual I | RPD Limits |
|---|-----------------|------------------------|-------------|------------|------------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-0 | 95 QC Batch ID: | WG1456451-4 QC Sample: | L2102689-01 | Client ID: | TP-1 1-3FT | 168 BEST |
| Arsenic, Total | 8.10 | 8.01 | mg/kg | 1 | | 20 |
| Barium, Total | 179 | 140 | mg/kg | 24 | Q | 20 |
| Cadmium, Total | 0.704 | 0.810 | mg/kg | 14 | | 20 |
| Chromium, Total | 7.83 | 10.7 | mg/kg | 31 | Q | 20 |
| Lead, Total | 323 | 313 | mg/kg | 3 | | 20 |
| Selenium, Total | 0.426J | 0.467J | mg/kg | NC | | 20 |
| Silver, Total | 0.369J | 0.236J | mg/kg | NC | | 20 |
| otal Metals - Mansfield Lab Associated sample(s): 01-0 | 95 QC Batch ID: | WG1456452-4 QC Sample: | L2102689-01 | Client ID: | TP-1 1-3FT | 168 BEST |
| Mercury, Total | 0.435 | 0.583 | mg/kg | 29 | Q | 20 |



INORGANICS & MISCELLANEOUS



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102689

Report Date: 01/25/21

SAMPLE RESULTS

Lab ID: L2102689-01

Client ID: TP-1 1-3FT 168 BEST

Sample Location: BUFFALO, NY

Date Collected:

01/15/21 08:20

LO, NY Field Prep:

Date Received:

01/18/21 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 | 80.0 | | % | 0.100 | NA | 1 | - | 01/19/21 10:28 | 121,2540G | RI |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001 Lab Number:

L2102689

Report Date: 01/25/21

SAMPLE RESULTS

Lab ID: L2102689-02

Client ID: TP-3 1-4FT 166 BEST

Sample Location: BUFFALO, NY

Date Collected:

01/15/21 09:25

Date Received:

01/18/21

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 | Vestborough Lab |) | | | | | | | | |
| Solids, Total | 84.1 | | % | 0.100 | NA | 1 | - | 01/19/21 10:28 | 121,2540G | RI |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102689

Report Date: 01/25/21

SAMPLE RESULTS

Lab ID: L2102689-03

Client ID: TP-5 1-4.5FT 81 EDNA

Sample Location: BUFFALO, NY

Date Collected:

01/15/21 10:50

Date Received: Field Prep: 01/18/21

Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - V | Vestborough Lab |) | | | | | | | | |
| Solids, Total | 77.7 | | % | 0.100 | NA | 1 | - | 01/19/21 10:28 | 121,2540G | RI |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102689

Report Date: 01/25/21

SAMPLE RESULTS

Lab ID: L2102689-04

Client ID: TP-8 3-4FT 160 BEST

Sample Location: BUFFALO, NY

Date Collected:

01/15/21 14:15

Date Received:

01/18/21

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 | Vestborough Lab | | | | | | | | | |
| Solids, Total | 78.2 | | % | 0.100 | NA | 1 | - | 01/19/21 10:28 | 121,2540G | RI |



Project Name: MICHIGAN & BEST Lab Number:

L2102689

Project Number: T0371-021-001 Report Date:

01/25/21

SAMPLE RESULTS

Lab ID: L2102689-05 Date Collected:

01/15/21 15:00

Client ID:

TP-9 0.0-0.5FT 1145 MICHIGAN

Date Received:

01/18/21

Sample Location: BUFFALO, NY

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 | 77.0 | | % | 0.100 | NA | 1 | - | 01/19/21 10:28 | 121,2540G | RI |



Lab Duplicate Analysis

Batch Quality Control

Lab Number:

L2102689

Report Date:

01/25/21

| Parameter | Native Samp | ole D | uplicate Sample | Units | RPD | Qual | RPD Limits |
|--|------------------|--------------|-----------------|------------|-------------|------------|------------|
| General Chemistry - Westborough Lab Associated s | sample(s): 01-05 | QC Batch ID: | WG1456283-1 | QC Sample: | L2102687-01 | Client ID: | DUP Sample |
| Solids, Total | 87.5 | | 88.2 | % | 1 | | 20 |



Project Name:

Project Number:

MICHIGAN & BEST

T0371-021-001

Serial_No:01252116:36 **Lab Number:** L2102689

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001 Report Date: 01/25/21

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Cooler

Α Absent

| Container Info | ormation | | Initial | Final | Temp | | | Frozen | |
|----------------|--|--------|---------|-------|-------|------|--------|-----------------|---|
| Container ID | Container Type | Cooler | рН | рН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L2102689-01A | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | 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) |
| L2102689-01B | Vial Large Septa unpreserved (4oz) | Α | NA | | 2.2 | Υ | Absent | | NYTCL-8260-R2(14) |
| L2102689-01C | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | NYTCL-8270(14),TS(7) |
| L2102689-01X | Vial MeOH preserved split | Α | NA | | 2.2 | Υ | Absent | | NYTCL-8260-R2(14) |
| L2102689-01Y | Vial Water preserved split | Α | NA | | 2.2 | Υ | Absent | 20-JAN-21 06:02 | NYTCL-8260-R2(14) |
| L2102689-01Z | Vial Water preserved split | Α | NA | | 2.2 | Υ | Absent | 20-JAN-21 06:02 | NYTCL-8260-R2(14) |
| L2102689-02A | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | 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) |
| L2102689-02B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | NYTCL-8270(14),TS(7) |
| L2102689-03A | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | Y | 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) |
| L2102689-03B | Vial Large Septa unpreserved (4oz) | Α | NA | | 2.2 | Υ | Absent | | NYTCL-8260-R2(14) |
| L2102689-03C | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | NYTCL-8270(14),TS(7) |
| L2102689-03X | Vial MeOH preserved split | Α | NA | | 2.2 | Υ | Absent | | NYTCL-8260-R2(14) |
| L2102689-03Y | Vial Water preserved split | Α | NA | | 2.2 | Υ | Absent | 20-JAN-21 06:02 | NYTCL-8260-R2(14) |
| L2102689-03Z | Vial Water preserved split | Α | NA | | 2.2 | Υ | Absent | 20-JAN-21 06:02 | NYTCL-8260-R2(14) |
| L2102689-04A | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | Υ | 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) |
| L2102689-04B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | NYTCL-8270(14),TS(7) |
| L2102689-05A | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 2.2 | 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) |
| L2102689-05B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | NYTCL-8270(14),TS(7) |



Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

GLOSSARY

Acronyms

LOD

LOQ

MS

RPD

SRM

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)

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

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

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

estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

- 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 only.)

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

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

 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.

- 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.

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

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

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

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

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

Footnotes

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

Terms

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

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

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

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

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(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 concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name:MICHIGAN & BESTLab Number:L2102689Project Number:T0371-021-001Report Date:01/25/21

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

Revision 17 Published Date: 4/28/2020 9:42:21 AM

Page 1 of 1

ID No.:17873

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

| 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: Mich | Jay oper Ave, Suite 1 | BEST | Pag | e of 1 | Deliv | in erable ASP | | 1/1 | ASP | -B IS (4 File) | ALPHA Job # L 2 10 2(Billing Information Same as Client Info | |
|--|--|--|--------------------------|-----------|-------------|-------------|----------|---------------------|------------------|------|-------|-----------------------------|---|----------------------------|
| Client Information | | Project # 16371- | 021-00 | | | | 15 | Othe | | | | - 411 177 | 1.5.0 | |
| Client: Turnkey (| Environmental | (Use Project name as Project name) | | | | | Regu | latory | Requirer | nent | 1 | THE SALE | Disposal Site Information | n |
| Address: 2558 High | My Kunpike | Project Manager: (A | ris Bor | 20 | | | R | NY TO | OGS Standards | | NY Pa | art 375 P-51 | Please identify below location | |
| Phone: (7-16) 818- | The second secon | Turn-Around Time | | 1000 | TENN VERS | - 520 - 63 | lΠ | 0 | estricted U | te 🗆 | Other | | Disposal Facility: | |
| | 0583 | Standard | N- | Due Date | · | | ۱ñ | | restricted | | 3,070 | | □ NJ □ NY | |
| Email: The wend to | inker 11c.com | Rush (only if pre approved) | | # of Days | | | lΠ | and the | Sewer Disc | | | | Other: | |
| These samples have b | | ed by Alpha | | | | | ANA | LYSIS | | | | | Sample Filtration | T |
| Other project specific Please specify Metals | | ents: | | | | | VOC 8260 | 1000 | 00 % | | | | □ Done □ Lab to do Preservation □ Lab to do (Please Specify below) | t a l |
| ALPHA Lab ID | Sa | mple ID | Colle | ection | Sample | Sampler's | 72 | 75 | ACC. A | | | | | t |
| (Lab Use Only) | | | Date | Time | Matrix | Initials | E | 35 | 07.2's | | | | Sample Specific Comment | ts e |
| 62689- 01 | | 68 BEST | 1/15/21 | 820 | Soil | TAS | X | X | X | | | | | 13 |
| 702 | TP-3 1-4ft | 166 BEST | | 925 | 1 | 1 | | 1 | X | | | | | 2 |
| 703 | TP-5 1-4.51 | | | 1050 | | | X | x | \times | | | | | В |
| 704 | TP-8 3-4F | | | 1915 | | | | X | X | | | | | 2 |
| 705 | TP-9 6.0-0. | 5ft 1145 Michigan | 1 | 1500 | 4 | 1 | | X | X | | | | | 2 |
| Name of Street | | | | | | | | | ` | | | | | |
| | | | | | - | | | _ | | _ | - | | | _ |
| The state of the s | | | | | - | | | | - | - | | | | _ |
| | | | | | | | | | - | _ | | | | + |
| Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH | Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup | Westboro: Certification No Mansfield: Certification No | | | | tainer Type | A | 4 4 | 4 | | | | Please print clearly, legand completely. Samp not be logged in and turnaround time clock | oles can will not |
| F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other | C = Cube O = Other E = Encore D = BOD Bottle | Relinquished B | gge. | Date/ | 730 1615 | Á | Réceiv | ved By | 9096 | 1/2 | 121 | Times . 40 19440 0040 | estart until any ambiguit pesolved. BY EXECUT THIS COC, THE CLIE HAS READ AND AGR TO BE BOUND BY AL TERMS & CONDITION (See reverse side.) | ING NT REES PHA'S |
| Form No: 01-25 HC (rev. 30 |)-Sept-2013) | | | | | | | | | | | | (See reverse side.) | |



ANALYTICAL REPORT

Lab Number: L2102692

Client: Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Suite 300

Buffalo, NY 14218

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

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Report Date: 02/02/21

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: MICHIGAN & BEST **Project Number:** T0371-021-001

Lab Number: L2
Report Date: 02

L2102692 02/02/21

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|----------------------------------|--------|--------------------|----------------------|--------------|
| L2102692-01 | TP-2 2-5FT 168 BEST | SOIL | BUFFALO, NY | 01/15/21 09:50 | 01/18/21 |
| L2102692-02 | TP-3 2-4FT 168 BEST | SOIL | BUFFALO, NY | 01/15/21 09:30 | 01/18/21 |
| L2102692-03 | TP-4 3-4FT 166 BEST | SOIL | BUFFALO, NY | 01/15/21 10:15 | 01/18/21 |
| L2102692-04 | TP-6 0.0-0.5FT 81 EDNA | SOIL | BUFFALO, NY | 01/15/21 11:50 | 01/18/21 |
| L2102692-05 | TP-7 0.5-2.5FT 162 BEST | SOIL | BUFFALO, NY | 01/15/21 13:20 | 01/18/21 |
| L2102692-06 | TP-7 0.5-2.5FT 164 BEST | SOIL | BUFFALO, NY | 01/15/21 13:40 | 01/18/21 |
| L2102692-07 | TP-8 0.0-0.5FT 160 BEST | SOIL | BUFFALO, NY | 01/15/21 14:20 | 01/18/21 |
| L2102692-08 | TP-10 0.0-0.5FT 1145 MICHIGAN | SOIL | BUFFALO, NY | 01/15/21 15:20 | 01/18/21 |



Project Name:MICHIGAN & BESTLab Number:L2102692Project Number:T0371-021-001Report Date:02/02/21

Case Narrative

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

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

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

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

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

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



Project Name:MICHIGAN & BESTLab Number:L2102692Project Number:T0371-021-001Report Date:02/02/21

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 Client IDs and analyses performed were specified by the client.

L2102692-08: The collection date and time on the chain of custody was 15-JAN-21 15:20; however, the collection date/time on the container label was 15-JAN-21 15:10. At the client's request, the collection date/time is reported as 15-JAN-21 15:20.

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

Alaka

Date: 02/02/21

ORGANICS



SEMIVOLATILES



L2102692

01/15/21 09:50

Not Specified

01/18/21

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Report Date: 02/02/21

Lab Number:

Date Collected:

Date Received:

Field Prep:

Lab ID: L2102692-01

Client ID: TP-2 2-5FT 168 BEST

Sample Location: BUFFALO, NY

Sample Depth:

Matrix: Soil

Analytical Method: 1,8270D

Analytical Date: 01/31/21 04:46

Analyst: Percent Solids: SLR 85%

Extraction Method: EPA 3546

Extraction Date: 01/27/21 18:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|------------------------------------|----------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - W | estborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 150 | 20. | 1 | |
| Fluoranthene | 320 | | ug/kg | 120 | 22. | 1 | |
| Naphthalene | 24 | J | ug/kg | 190 | 23. | 1 | |
| Benzo(a)anthracene | 180 | | ug/kg | 120 | 22. | 1 | |
| Benzo(a)pyrene | 170 | | ug/kg | 150 | 47. | 1 | |
| Benzo(b)fluoranthene | 240 | | ug/kg | 120 | 32. | 1 | |
| Benzo(k)fluoranthene | 58 | J | ug/kg | 120 | 31. | 1 | |
| Chrysene | 150 | | ug/kg | 120 | 20. | 1 | |
| Acenaphthylene | ND | | ug/kg | 150 | 30. | 1 | |
| Anthracene | 38 | J | ug/kg | 120 | 38. | 1 | |
| Benzo(ghi)perylene | 110 | J | ug/kg | 150 | 23. | 1 | |
| Fluorene | ND | | ug/kg | 190 | 19. | 1 | |
| Phenanthrene | 180 | | ug/kg | 120 | 23. | 1 | |
| Dibenzo(a,h)anthracene | 28 | J | ug/kg | 120 | 22. | 1 | |
| Indeno(1,2,3-cd)pyrene | 120 | J | ug/kg | 150 | 27. | 1 | |
| Pyrene | 280 | | ug/kg | 120 | 19. | 1 | |
| | | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 71 | 23-120 | |
| 2-Fluorobiphenyl | 67 | 30-120 | |
| 4-Terphenyl-d14 | 50 | 18-120 | |



L2102692

Project Name: Lab Number: MICHIGAN & BEST

Project Number: Report Date: T0371-021-001 02/02/21

SAMPLE RESULTS

Lab ID: L2102692-02 Date Collected: 01/15/21 09:30

Date Received: Client ID: TP-3 2-4FT 168 BEST 01/18/21 Sample Location: Field Prep: BUFFALO, NY Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil

Extraction Date: 01/27/21 18:00 Analytical Method: 1,8270D Analytical Date: 01/31/21 05:12

Analyst: SLR 81% Percent Solids:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|--------------------------------------|---------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - Wes | stborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 160 | 21. | 1 | |
| Fluoranthene | 160 | | ug/kg | 120 | 23. | 1 | |
| Naphthalene | 25 | J | ug/kg | 200 | 25. | 1 | |
| Benzo(a)anthracene | 90 | J | ug/kg | 120 | 23. | 1 | |
| Benzo(a)pyrene | 82 | J | ug/kg | 160 | 50. | 1 | |
| Benzo(b)fluoranthene | 120 | | ug/kg | 120 | 34. | 1 | |
| Benzo(k)fluoranthene | ND | | ug/kg | 120 | 32. | 1 | |
| Chrysene | 88 | J | ug/kg | 120 | 21. | 1 | |
| Acenaphthylene | ND | | ug/kg | 160 | 31. | 1 | |
| Anthracene | ND | | ug/kg | 120 | 40. | 1 | |
| Benzo(ghi)perylene | 66 | J | ug/kg | 160 | 24. | 1 | |
| Fluorene | ND | | ug/kg | 200 | 20. | 1 | |
| Phenanthrene | 100 | J | ug/kg | 120 | 25. | 1 | |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 120 | 24. | 1 | |
| Indeno(1,2,3-cd)pyrene | 79 | J | ug/kg | 160 | 28. | 1 | |
| Pyrene | 130 | | ug/kg | 120 | 20. | 1 | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 63 | 23-120 | |
| 2-Fluorobiphenyl | 67 | 30-120 | |
| 4-Terphenyl-d14 | 56 | 18-120 | |



L2102692

02/02/21

Project Name: MICHIGAN & BEST

01/31/21 05:37

Project Number: T0371-021-001

SAMPLE RESULTS

01/15/21 13:20

Lab Number:

Report Date:

Lab ID: Date Collected: L2102692-05

Date Received: Client ID: TP-7 0.5-2.5FT 162 BEST 01/18/21 Sample Location: Field Prep: BUFFALO, NY Not Specified

Sample Depth:

Analytical Date:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 01/27/21 18:00 Analytical Method: 1,8270D

Analyst: SLR 86% Percent Solids:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------------|-------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - West | borough Lab | | | | | |
| Acenaphthene | ND | | a/lsa | 150 | 20. | 1 |
| · | | | ug/kg | | | <u> </u> |
| Fluoranthene | 240 | | ug/kg | 110 | 22. | 1 |
| Naphthalene | ND | | ug/kg | 190 | 23. | 1 |
| Benzo(a)anthracene | 140 | | ug/kg | 110 | 21. | 1 |
| Benzo(a)pyrene | 110 | J | ug/kg | 150 | 46. | 1 |
| Benzo(b)fluoranthene | 170 | | ug/kg | 110 | 32. | 1 |
| Benzo(k)fluoranthene | 38 | J | ug/kg | 110 | 30. | 1 |
| Chrysene | 110 | | ug/kg | 110 | 20. | 1 |
| Acenaphthylene | ND | | ug/kg | 150 | 29. | 1 |
| Anthracene | ND | | ug/kg | 110 | 37. | 1 |
| Benzo(ghi)perylene | 75 | J | ug/kg | 150 | 22. | 1 |
| Fluorene | ND | | ug/kg | 190 | 18. | 1 |
| Phenanthrene | 120 | | ug/kg | 110 | 23. | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 110 | 22. | 1 |
| Indeno(1,2,3-cd)pyrene | 88 | J | ug/kg | 150 | 26. | 1 |
| Pyrene | 190 | | ug/kg | 110 | 19. | 1 |

| Surrogate | % Recovery | | otance teria |
|------------------|------------|----|-----------------|
| Nitrobenzene-d5 | 83 | 23 | 3-120 |
| 2-Fluorobiphenyl | 74 | 30 |)-120 |
| 4-Terphenyl-d14 | 57 | 18 | 3-120 |



L2102692

01/15/21 13:40

Not Specified

01/18/21

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Report Date: 02/02/21

Lab Number:

Date Collected:

Date Received:

Field Prep:

Lab ID: L2102692-06

Client ID: TP-7 0.5-2.5FT 164 BEST

Sample Location: BUFFALO, NY

Sample Depth:

Matrix: Soil Analytical Method: 1,8270D Analytical Date: 01/31/21 06:03

Analyst: SLR 84% Percent Solids:

Extraction Method: EPA 3546

Extraction Date: 01/27/21 18:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | | | |
|-------------------------------------|--|-----------|-------|-----|-----|-----------------|--|--|--|--|--|
| Semivolatile Organics by GC/MS - We | Semivolatile Organics by GC/MS - Westborough Lab | | | | | | | | | | |
| Acenaphthene | ND | | ug/kg | 160 | 20. | 1 | | | | | |
| Fluoranthene | 300 | | ug/kg | 120 | 23. | 1 | | | | | |
| Naphthalene | ND | | ug/kg | 200 | 24. | 1 | | | | | |
| Benzo(a)anthracene | 170 | | ug/kg | 120 | 22. | 1 | | | | | |
| Benzo(a)pyrene | 140 | J | ug/kg | 160 | 48. | 1 | | | | | |
| Benzo(b)fluoranthene | 190 | | ug/kg | 120 | 33. | 1 | | | | | |
| Benzo(k)fluoranthene | 59 | J | ug/kg | 120 | 32. | 1 | | | | | |
| Chrysene | 140 | | ug/kg | 120 | 20. | 1 | | | | | |
| Acenaphthylene | ND | | ug/kg | 160 | 30. | 1 | | | | | |
| Anthracene | 40 | J | ug/kg | 120 | 38. | 1 | | | | | |
| Benzo(ghi)perylene | 91 | J | ug/kg | 160 | 23. | 1 | | | | | |
| Fluorene | 23 | J | ug/kg | 200 | 19. | 1 | | | | | |
| Phenanthrene | 180 | | ug/kg | 120 | 24. | 1 | | | | | |
| Dibenzo(a,h)anthracene | 24 | J | ug/kg | 120 | 23. | 1 | | | | | |
| Indeno(1,2,3-cd)pyrene | 100 | J | ug/kg | 160 | 27. | 1 | | | | | |
| Pyrene | 240 | | ug/kg | 120 | 20. | 1 | | | | | |
| | | | | | | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5 | 80 | | 23-120 | |
| 2-Fluorobiphenyl | 77 | | 30-120 | |
| 4-Terphenyl-d14 | 60 | | 18-120 | |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001 Lab Number:

Report Date:

L2102692 02/02/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Analytical Date:

Analyst:

01/27/21 16:55

WR

Extraction Method: EPA 3546 01/27/21 12:34 **Extraction Date:**

| Parameter | Result | Qualifier | Units | RL | MDL | |
|--------------------------------|---------------|-------------|-----------|-------------|--------|-------------|
| Semivolatile Organics by GC/MS | - Westborougl | n Lab for s | ample(s): | 01-02,05-06 | Batch: | WG1459221-1 |
| 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. | |

| %Recovery Qua | Acceptance Ilifier Criteria |
|---------------|--------------------------------|
| 71 | 25-120 |
| 79 | 10-120 |
| 77 | 23-120 |
| 72 | 30-120 |
| 83 | 10-136 |
| 70 | 18-120 |
| | 77 72 83 |



Lab Control Sample Analysis Batch Quality Control

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2102692

Report Date: 02/02/21

| arameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | |
|---------------------------------------|--------------------|-----------------|-------------------|--------|---------------------|-------------|------|---------------|--|
| emivolatile Organics by GC/MS - Westb | orough Lab Associa | ated sample(s): | 01-02,05-06 | Batch: | WG1459221-2 | WG1459221-3 | | | |
| Acenaphthene | 75 | | 55 | | 31-137 | 31 | | 50 | |
| Fluoranthene | 81 | | 60 | | 40-140 | 30 | | 50 | |
| Naphthalene | 69 | | 54 | | 40-140 | 24 | | 50 | |
| Benzo(a)anthracene | 84 | | 61 | | 40-140 | 32 | | 50 | |
| Benzo(a)pyrene | 81 | | 61 | | 40-140 | 28 | | 50 | |
| Benzo(b)fluoranthene | 88 | | 63 | | 40-140 | 33 | | 50 | |
| Benzo(k)fluoranthene | 64 | | 54 | | 40-140 | 17 | | 50 | |
| Chrysene | 74 | | 53 | | 40-140 | 33 | | 50 | |
| Acenaphthylene | 78 | | 59 | | 40-140 | 28 | | 50 | |
| Anthracene | 76 | | 55 | | 40-140 | 32 | | 50 | |
| Benzo(ghi)perylene | 73 | | 53 | | 40-140 | 32 | | 50 | |
| Fluorene | 80 | | 60 | | 40-140 | 29 | | 50 | |
| Phenanthrene | 78 | | 57 | | 40-140 | 31 | | 50 | |
| Dibenzo(a,h)anthracene | 74 | | 54 | | 40-140 | 31 | | 50 | |
| Indeno(1,2,3-cd)pyrene | 83 | | 59 | | 40-140 | 34 | | 50 | |
| Pyrene | 79 | | 60 | | 35-142 | 27 | | 50 | |

Lab Control Sample Analysis Batch Quality Control

Project Name: MICHIGAN & BEST

Lab Number:

L2102692

Project Number: T0371-021-001

Report Date:

02/02/21

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

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-06 Batch: WG1459221-2 WG1459221-3

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|----------------------|-----------------------|------------------------|------------------------|
| 2-Fluorophenol | 71 | 57 | 25-120 |
| Phenol-d6 | 78 | 63 | 10-120 |
| Nitrobenzene-d5 | 78 | 62 | 23-120 |
| 2-Fluorobiphenyl | 73 | 56 | 30-120 |
| 2,4,6-Tribromophenol | 91 | 68 | 10-136 |
| 4-Terphenyl-d14 | 76 | 57 | 18-120 |



METALS



01/15/21 09:50

Date Collected:

Project Name:MICHIGAN & BESTLab Number:L2102692Project Number:T0371-021-001Report Date:02/02/21

SAMPLE RESULTS

Lab ID: L2102692-01

Client ID: TP-2 2-5FT 168 BEST Date Received: 01/18/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Percent Solids: | 85% | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| T | C 111 1 | | | | | | | | | | |
| Total Metals - Man | stield Lab | | | | | | | | | | |
| Arsenic, Total | 6.04 | | mg/kg | 0.444 | 0.092 | 1 | 01/27/21 06:55 | 01/28/21 14:15 | EPA 3050B | 1,6010D | GD |
| Barium, Total | 127 | | mg/kg | 0.444 | 0.077 | 1 | 01/27/21 06:55 | 01/28/21 14:15 | EPA 3050B | 1,6010D | GD |
| Cadmium, Total | 0.755 | | mg/kg | 0.444 | 0.044 | 1 | 01/27/21 06:55 | 5 01/28/21 14:15 | EPA 3050B | 1,6010D | GD |
| Chromium, Total | 15.2 | | mg/kg | 0.444 | 0.043 | 1 | 01/27/21 06:55 | 01/28/21 14:15 | EPA 3050B | 1,6010D | GD |
| Lead, Total | 384 | | mg/kg | 2.22 | 0.119 | 1 | 01/27/21 06:55 | 5 01/28/21 14:15 | EPA 3050B | 1,6010D | GD |
| Mercury, Total | 0.813 | | mg/kg | 0.073 | 0.048 | 1 | 01/27/21 08:05 | 5 01/27/21 18:27 | EPA 7471B | 1,7471B | VW |
| Selenium, Total | 0.298 | J | mg/kg | 0.888 | 0.115 | 1 | 01/27/21 06:55 | 5 01/28/21 14:15 | EPA 3050B | 1,6010D | GD |
| Silver, Total | ND | | mg/kg | 0.444 | 0.126 | 1 | 01/27/21 06:55 | 5 01/28/21 14:15 | EPA 3050B | 1,6010D | GD |



01/15/21 09:30

Date Collected:

Project Name:MICHIGAN & BESTLab Number:L2102692Project Number:T0371-021-001Report Date:02/02/21

SAMPLE RESULTS

Lab ID: L2102692-02

Client ID: TP-3 2-4FT 168 BEST Date Received: 01/18/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 81%

| Percent Solids: | 81% | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 6.14 | | mg/kg | 0.462 | 0.096 | 1 | 01/27/21 06:55 | 5 01/28/21 14:20 | EPA 3050B | 1,6010D | GD |
| Barium, Total | 166 | | mg/kg | 0.462 | 0.080 | 1 | 01/27/21 06:55 | 5 01/28/21 14:20 | EPA 3050B | 1,6010D | GD |
| Cadmium, Total | 1.26 | | mg/kg | 0.462 | 0.045 | 1 | 01/27/21 06:55 | 5 01/28/21 14:20 | EPA 3050B | 1,6010D | GD |
| Chromium, Total | 9.43 | | mg/kg | 0.462 | 0.044 | 1 | 01/27/21 06:55 | 5 01/28/21 14:20 | EPA 3050B | 1,6010D | GD |
| Lead, Total | 53200 | | mg/kg | 46.2 | 2.48 | 20 | 01/27/21 06:55 | 5 01/28/21 23:44 | EPA 3050B | 1,6010D | BV |
| Mercury, Total | 0.255 | | mg/kg | 0.077 | 0.050 | 1 | 01/27/21 08:05 | 5 01/27/21 18:30 | EPA 7471B | 1,7471B | VW |
| Selenium, Total | 1.30 | | mg/kg | 0.924 | 0.119 | 1 | 01/27/21 06:55 | 5 01/28/21 14:20 | EPA 3050B | 1,6010D | GD |
| Silver, Total | 0.896 | | mg/kg | 0.462 | 0.131 | 1 | 01/27/21 06:55 | 5 01/28/21 14:20 | EPA 3050B | 1,6010D | GD |



01/15/21 13:20

Date Collected:

Project Name:MICHIGAN & BESTLab Number:L2102692Project Number:T0371-021-001Report Date:02/02/21

SAMPLE RESULTS

Lab ID: L2102692-05

Client ID: TP-7 0.5-2.5FT 162 BEST Date Received: 01/18/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

| Percent Solids: | 86% | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Arsenic, Total | 2.84 | | mg/kg | 0.448 | 0.093 | 1 | 01/27/21 06:55 | 5 01/29/21 01:08 | EPA 3050B | 1,6010D | BV |
| Barium, Total | 63.4 | | mg/kg | 0.448 | 0.078 | 1 | 01/27/21 06:55 | 5 01/29/21 01:08 | EPA 3050B | 1,6010D | BV |
| Cadmium, Total | 0.506 | | mg/kg | 0.448 | 0.044 | 1 | 01/27/21 06:55 | 5 01/29/21 01:08 | EPA 3050B | 1,6010D | BV |
| Chromium, Total | 6.20 | | mg/kg | 0.448 | 0.043 | 1 | 01/27/21 06:55 | 5 01/29/21 01:08 | EPA 3050B | 1,6010D | BV |
| Lead, Total | 264 | | mg/kg | 2.24 | 0.120 | 1 | 01/27/21 06:55 | 5 01/29/21 01:08 | EPA 3050B | 1,6010D | BV |
| Mercury, Total | 0.347 | | mg/kg | 0.074 | 0.049 | 1 | 01/27/21 08:05 | 5 01/27/21 18:33 | EPA 7471B | 1,7471B | VW |
| Selenium, Total | 0.350 | J | mg/kg | 0.896 | 0.116 | 1 | 01/27/21 06:55 | 5 01/29/21 01:08 | EPA 3050B | 1,6010D | BV |
| Silver, Total | ND | | mg/kg | 0.448 | 0.127 | 1 | 01/27/21 06:55 | 5 01/29/21 01:08 | EPA 3050B | 1,6010D | BV |



01/15/21 13:40

Date Collected:

 Project Name:
 MICHIGAN & BEST
 Lab Number:
 L2102692

 Project Number:
 T0371-021-001
 Report Date:
 02/02/21

SAMPLE RESULTS

Lab ID: L2102692-06

Client ID: TP-7 0.5-2.5FT 164 BEST Date Received: 01/18/21
Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 84%

Prep Dilution Date Date Analytical Method **Parameter** Qualifier Factor **Prepared** Analyzed Method Result Units RLMDL Analyst Total Metals - Mansfield Lab Arsenic, Total 3.35 mg/kg 0.455 0.095 1 01/27/21 06:55 01/29/21 01:13 EPA 3050B 1,6010D BV Barium, Total 186 mg/kg 0.455 0.079 1 01/27/21 06:55 01/29/21 01:13 EPA 3050B 1,6010D ΒV 1 Cadmium, Total 0.992 mg/kg 0.455 0.045 01/27/21 06:55 01/29/21 01:13 EPA 3050B 1,6010D BV 1 Chromium, Total 16.1 mg/kg 0.455 0.044 01/27/21 06:55 01/29/21 01:13 EPA 3050B 1,6010D ΒV 2470 2.28 0.122 01/27/21 06:55 01/29/21 01:13 EPA 3050B 1,6010D в۷ Lead, Total mg/kg 1 1,7471B Mercury, Total 0.402 0.075 0.049 1 01/27/21 08:05 01/27/21 18:37 EPA 7471B VW mg/kg J Selenium, Total 0.300 mg/kg 0.910 0.117 1 01/27/21 06:55 01/29/21 01:13 EPA 3050B 1,6010D ΒV Silver, Total ND 0.455 0.129 1 01/27/21 06:55 01/29/21 01:13 EPA 3050B 1,6010D ΒV mg/kg



Project Name: MICHIGAN & BEST
Project Number: T0371-021-001

 Lab Number:
 L2102692

 Report Date:
 02/02/21

Method Blank Analysis Batch Quality Control

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--------------------------|--------------------|-----------|---------|--------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield | Lab for sample(s): | 01-02,05- | 06 Bate | ch: WG | 1458809-1 | | | | |
| Arsenic, Total | ND | mg/kg | 0.400 | 0.083 | 1 | 01/27/21 06:55 | 01/28/21 13:24 | 1,6010D | GD |
| Barium, Total | ND | mg/kg | 0.400 | 0.070 | 1 | 01/27/21 06:55 | 01/28/21 13:24 | 1,6010D | GD |
| Cadmium, Total | ND | mg/kg | 0.400 | 0.039 | 1 | 01/27/21 06:55 | 01/28/21 13:24 | 1,6010D | GD |
| Chromium, Total | ND | mg/kg | 0.400 | 0.038 | 1 | 01/27/21 06:55 | 01/28/21 13:24 | 1,6010D | GD |
| Lead, Total | ND | mg/kg | 2.00 | 0.107 | 1 | 01/27/21 06:55 | 01/28/21 13:24 | 1,6010D | GD |
| Selenium, Total | ND | mg/kg | 0.800 | 0.103 | 1 | 01/27/21 06:55 | 01/28/21 13:24 | 1,6010D | GD |
| Silver, Total | ND | mg/kg | 0.400 | 0.113 | 1 | 01/27/21 06:55 | 01/28/21 13:24 | 1,6010D | GD |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytica Method | |
|---------------------|---------------------------|-----------|---------|--------|--------------------|------------------|------------------|---------------------|----|
| Total Metals - Mans | sfield Lab for sample(s): | 01-02,05- | -06 Bat | ch: WG | 1458810-1 | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | 0.054 | 1 | 01/27/21 08:05 | 01/27/21 18:00 | 1,7471B | VW |

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis Batch Quality Control

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102692

Report Date:

02/02/21

| Parameter | LCS %Recovery | LCSD Qual %Recovery | %Recovery Qual Limits | RPD | Qual | RPD Limits |
|--|------------------|------------------------|--------------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample | (s): 01-02,05-06 | Batch: WG1458809-2 | SRM Lot Number: D109-540 | | | |
| Arsenic, Total | 110 | - | 70-130 | - | | |
| Barium, Total | 103 | - | 75-125 | - | | |
| Cadmium, Total | 96 | - | 75-125 | - | | |
| Chromium, Total | 99 | - | 70-130 | - | | |
| Lead, Total | 103 | - | 72-128 | - | | |
| Selenium, Total | 111 | - | 68-132 | - | | |
| Silver, Total | 105 | - | 68-131 | - | | |
| Total Metals - Mansfield Lab Associated sample | (s): 01-02,05-06 | Batch: WG1458810-2 | SRM Lot Number: D109-540 | | | |
| Mercury, Total | 89 | - | 60-140 | - | | |



Matrix Spike Analysis Batch Quality Control

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102692

02/02/21

Report Date:

| arameter | Native Sample | MS Added | MS Found | MS %Recovery | MSI Qual Four | | Recovery Qual Limits | RPD Qual | RPD Limits |
|------------------------------|------------------|---------------|-------------|-----------------|------------------|----------------|-------------------------|-------------|---------------|
| Total Metals - Mansfield Lab | Associated san | nple(s): 01-0 | 02,05-06 | QC Batch ID: W | /G1458809-3 | QC Sample: L21 | 04084-01 Client | ID: MS Samp | ole |
| Arsenic, Total | 1.65 | 11.4 | 12.4 | 94 | | | 75-125 | - | 20 |
| Barium, Total | 94.7 | 190 | 273 | 94 | | | 75-125 | - | 20 |
| Cadmium, Total | 0.295J | 4.84 | 4.46 | 92 | | | 75-125 | - | 20 |
| Chromium, Total | 8.27 | 19 | 24.3 | 84 | | | 75-125 | - | 20 |
| Lead, Total | 4.40J | 48.4 | 44.6 | 92 | | | 75-125 | - | 20 |
| Selenium, Total | ND | 11.4 | 10.9 | 96 | | | 75-125 | - | 20 |
| Silver, Total | ND | 28.5 | 25.7 | 90 | | | 75-125 | - | 20 |
| Total Metals - Mansfield Lab | Associated sam | nple(s): 01-0 | 02,05-06 | QC Batch ID: W | /G1458810-3 | QC Sample: L21 | 03814-01 Client | ID: MS Samp | ole |
| Mercury, Total | 4.43 | 0.255 | 3.98 | 0 | Q | | 80-120 | - | 20 |

Lab Duplicate Analysis Batch Quality Control

Project Name: MICHIGAN & BEST **Project Number:** T0371-021-001

Lab Number:

L2102692

Report Date: 02/02/21

| Parameter | Native | Sample | Duplicate Sam | nple Units | RPD | Qual | RPD Limits |
|-------------------------------------|------------------------------|--------------|---------------|-------------------|----------|-------------|------------|
| Total Metals - Mansfield Lab Associ | iated sample(s): 01-02,05-06 | QC Batch ID: | WG1458809-4 | QC Sample: L21040 | 84-01 CI | ient ID: DL | IP Sample |
| Arsenic, Total | 1. | 65 | 1.30 | mg/kg | 24 | Q | 20 |
| Barium, Total | 94 | 4.7 | 64.8 | mg/kg | 37 | Q | 20 |
| Cadmium, Total | 0.2 | 95J | 0.209J | mg/kg | NC | | 20 |
| Chromium, Total | 8. | 27 | 6.70 | mg/kg | 21 | Q | 20 |
| Lead, Total | 4. | 40J | 4.46J | mg/kg | NC | | 20 |
| Selenium, Total | N | ID | ND | mg/kg | NC | | 20 |
| Silver, Total | N | ID | ND | mg/kg | NC | | 20 |
| otal Metals - Mansfield Lab Associ | iated sample(s): 01-02,05-06 | QC Batch ID: | WG1458810-4 | QC Sample: L21038 | 14-01 CI | ient ID: DL | JP Sample |
| Mercury, Total | 4. | .43 | 5.38 | mg/kg | 19 | | 20 |



INORGANICS & MISCELLANEOUS



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001 Lab Number:

L2102692

Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2102692-01

Client ID: TP-2 2-5FT 168 BEST

Sample Location: BUFFALO, NY

Date Collected:

01/15/21 09:50

Date Received:

01/18/21

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 | Vestborough Lab |) | | | | | | | | |
| Solids, Total | 85.4 | | % | 0.100 | NA | 1 | - | 01/27/21 10:04 | 121,2540G | RI |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2102692

Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2102692-02

Client ID: TP-3 2-4FT 168 BEST

Sample Location: BUFFALO, NY

Date Collected:

01/15/21 09:30

Date Received:

01/18/21

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 - | Westborough Lab | ס | | | | | | | | |
| Solids, Total | 81.4 | | % | 0.100 | NA | 1 | - | 01/27/21 10:04 | 121,2540G | RI |



Project Name: MICHIGAN & BEST Lab Number: L2102692

Project Number: T0371-021-001 **Report Date:** 02/02/21

SAMPLE RESULTS

Lab ID: L2102692-05 Date Collected: 01/15/21 13:20

Client ID: TP-7 0.5-2.5FT 162 BEST Date Received: 01/18/21 Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - \ | Westborough Lab | | | | | | | | | |
| Solids, Total | 85.8 | | % | 0.100 | NA | 1 | - | 01/27/21 10:04 | 121,2540G | RI |



Project Name: MICHIGAN & BEST

Lab Number:

L2102692

Project Number: T0371-021-001 Report Date:

Date Collected:

02/02/21

01/15/21 13:40

SAMPLE RESULTS

Lab ID: L2102692-06

TP-7 0.5-2.5FT 164 BEST

Date Received:

Sample Location: BUFFALO, NY

01/18/21 Not Specified Field Prep:

Sample Depth:

Matrix:

Client ID:

Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|------------------------|----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - We | estborough Lab |) | | | | | | | | |
| Solids, Total | 84.0 | | % | 0.100 | NA | 1 | - | 01/27/21 10:04 | 121,2540G | RI |



Lab Duplicate Analysis

Batch Quality Control

Lab Number:

L2102692

Report Date:

02/02/21

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------|-----------------------------------|--------------------------|-----------|----------|---------|--------------------|
| General Chemistry - Westborough Lab A | Associated sample(s): 01-02,05-06 | QC Batch ID: WG1459036-1 | QC Sample | : L21026 | 92-01 (| Client ID: TP-2 2- |
| Solids, Total | 85.4 | 84.6 | % | 1 | | 20 |



Project Name:

Project Number:

MICHIGAN & BEST

T0371-021-001

Project Name: MICHIGAN & BEST *Lab Number:* L2102692 **Project Number:** T0371-021-001

Report Date: 02/02/21

Sample Receipt and Container Information

YES Were project specific reporting limits specified?

Cooler Information

Custody Seal Cooler

Α Absent

| Container Information | | | Initial | | Temp | | | Frozen | |
|-----------------------|-----------------------------|--------|---------|----|-------|------|--------|-----------|---|
| Container ID | Container Type | Cooler | рН | pН | · · · | Pres | Seal | Date/Time | Analysis(*) |
| L2102692-01A | Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | 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) |
| L2102692-01B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| L2102692-02A | Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | Y | 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) |
| L2102692-02B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| L2102692-03A | Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | HOLD-METAL(180) |
| L2102692-03B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | HOLD-WETCHEM(),HOLD-8270(14) |
| L2102692-04A | Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | HOLD-METAL(180) |
| L2102692-04B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | HOLD-WETCHEM(),HOLD-8270(14) |
| L2102692-05A | Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | 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) |
| L2102692-05B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| L2102692-06A | Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | 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) |
| L2102692-06B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| L2102692-07A | Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | HOLD-METAL(180) |
| L2102692-07B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | HOLD-WETCHEM(),HOLD-8270(14) |
| L2102692-08A | Glass 60mL/2oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | HOLD-METAL(180) |
| L2102692-08B | Glass 120ml/4oz unpreserved | Α | NA | | 2.2 | Υ | Absent | | HOLD-WETCHEM(),HOLD-8270(14) |



Project Name: Lab Number: MICHIGAN & BEST L2102692 **Project Number:** T0371-021-001 **Report Date:** 02/02/21

GLOSSARY

Acronyms

EDL

LCSD

LOD

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.)

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated

values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

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

EPA Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

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

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.)

Laboratory Control Sample Duplicate: Refer to LCS.

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

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.

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.

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



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

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

receipt, if applicable.

- 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 concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was 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:MICHIGAN & BESTLab Number:L2102692Project Number:T0371-021-001Report Date:02/02/21

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

Published Date: 4/28/2020 9:42:21 AM Department: Quality Assurance 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 | 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 Con Project Information Project Name: W | Vay | | Page | - | Deliv | Date Rec in Lab | | 1/19 | 121 ASP-E | | Billing I | A Job# 2 10 269 Information Ime as Client Info | 12 |
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ANALYTICAL REPORT

Lab Number: L2106250

Client: Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Suite 300

Buffalo, NY 14218

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

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Report Date: 02/12/21

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: MICHIGAN & BEST

Project Number: T0371-021-001 Lab Number: L2106250 Report Date: 02/12/21

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-----------------|--------|--------------------|----------------------|--------------|
| L2106250-01 | TP-11 2-3FT | SOIL | T0371-021-001 | 02/09/21 08:30 | 02/09/21 |
| L2106250-02 | TP-17 2-3FT | SOIL | T0371-021-001 | 02/09/21 11:00 | 02/09/21 |
| L2106250-03 | TP-18 2-3FT | SOIL | T0371-021-001 | 02/09/21 12:00 | 02/09/21 |
| L2106250-04 | TP-11 6-7FT | SOIL | T0371-021-001 | 02/09/21 09:00 | 02/09/21 |
| L2106250-05 | TP-12 1-2FT | SOIL | T0371-021-001 | 02/09/21 09:30 | 02/09/21 |
| L2106250-06 | TP-16 0-1FT | SOIL | T0371-021-001 | 02/09/21 10:30 | 02/09/21 |
| L2106250-07 | TP-15 0.5-1.5FT | SOIL | T0371-021-001 | 02/09/21 10:00 | 02/09/21 |



Case Narrative

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

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

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

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

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

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



Project Name:MICHIGAN & BESTLab Number:L2106250Project Number:T0371-021-001Report Date:02/12/21

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.

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

Authorized Signature:

Title: Technical Director/Representative Date: 02/12/21

Melissa Sturgis Melissa Sturgis

ANALYTICAL

ORGANICS



SEMIVOLATILES



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Report Date: 02/12/21

Lab ID: L2106250-01 Client ID: TP-11 2-3FT

Date Received:

Date Collected:

Lab Number:

02/09/21 08:30 02/09/21

L2106250

Sample Location: T0371-021-001 Field Prep:

Not Specified

Sample Depth:

Percent Solids:

Matrix: Soil

1,8270D Analytical Method:

Analytical Date: 02/11/21 09:25

Analyst: JG 79% Extraction Method: EPA 3546

Extraction Date: 02/10/21 17:38

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | | | |
| Acenaphthene | 210 | | ug/kg | 160 | 21. | 1 | | |
| Fluoranthene | 4200 | | ug/kg | 120 | 24. | 1 | | |
| Naphthalene | 290 | | ug/kg | 210 | 25. | 1 | | |
| Benzo(a)anthracene | 1900 | | ug/kg | 120 | 23. | 1 | | |
| Benzo(a)pyrene | 1800 | | ug/kg | 160 | 50. | 1 | | |
| Benzo(b)fluoranthene | 2200 | | ug/kg | 120 | 35. | 1 | | |
| Benzo(k)fluoranthene | 800 | | ug/kg | 120 | 33. | 1 | | |
| Chrysene | 2000 | | ug/kg | 120 | 22. | 1 | | |
| Acenaphthylene | 320 | | ug/kg | 160 | 32. | 1 | | |
| Anthracene | 730 | | ug/kg | 120 | 40. | 1 | | |
| Benzo(ghi)perylene | 1000 | | ug/kg | 160 | 24. | 1 | | |
| Fluorene | 310 | | ug/kg | 210 | 20. | 1 | | |
| Phenanthrene | 3400 | | ug/kg | 120 | 25. | 1 | | |
| Dibenzo(a,h)anthracene | 260 | | ug/kg | 120 | 24. | 1 | | |
| Indeno(1,2,3-cd)pyrene | 1200 | | ug/kg | 160 | 29. | 1 | | |
| Pyrene | 3600 | | ug/kg | 120 | 20. | 1 | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 51 | 23-120 | |
| 2-Fluorobiphenyl | 46 | 30-120 | |
| 4-Terphenyl-d14 | 38 | 18-120 | |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Lab Number: L2106250

Report Date: 02/12/21

Lab ID: L2106250-02

Client ID: TP-17 2-3FT Sample Location: T0371-021-001 Date Collected: 02/09/21 11:00 Date Received: 02/09/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8270D Analytical Date: 02/11/21 08:12

Analyst: JG 80% Percent Solids:

Extraction Method: EPA 3546 **Extraction Date:** 02/10/21 17:38

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|--------------------------------|-------------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS | - Westborough Lab | | | | | | |
| Acenaphthene | 250 | | ug/kg | 160 | 21. | 1 | |
| Fluoranthene | 6200 | | ug/kg | 120 | 24. | 1 | |
| Naphthalene | 160 | J | ug/kg | 200 | 25. | 1 | |
| Benzo(a)anthracene | 2800 | | ug/kg | 120 | 23. | 1 | |
| Benzo(a)pyrene | 2600 | | ug/kg | 160 | 50. | 1 | |
| Benzo(b)fluoranthene | 3300 | | ug/kg | 120 | 34. | 1 | |
| Benzo(k)fluoranthene | 1100 | | ug/kg | 120 | 33. | 1 | |
| Chrysene | 2800 | | ug/kg | 120 | 21. | 1 | |
| Acenaphthylene | 230 | | ug/kg | 160 | 32. | 1 | |
| Anthracene | 920 | | ug/kg | 120 | 40. | 1 | |
| Benzo(ghi)perylene | 1600 | | ug/kg | 160 | 24. | 1 | |
| Fluorene | 280 | | ug/kg | 200 | 20. | 1 | |
| Phenanthrene | 4100 | | ug/kg | 120 | 25. | 1 | |
| Dibenzo(a,h)anthracene | 430 | | ug/kg | 120 | 24. | 1 | |
| Indeno(1,2,3-cd)pyrene | 1700 | | ug/kg | 160 | 28. | 1 | |
| Pyrene | 5100 | | ug/kg | 120 | 20. | 1 | |
| | | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 64 | 23-120 | |
| 2-Fluorobiphenyl | 58 | 30-120 | |
| 4-Terphenyl-d14 | 55 | 18-120 | |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

SAMPLE RESULTS

Report Date: 02/12/21

Lab ID: L2106250-03

1,8270D

Client ID: TP-18 2-3FT Sample Location: T0371-021-001 Date Collected: Date Received: 02/09/21 Field Prep: Not Specified

Lab Number:

02/09/21 12:00

L2106250

Analytical Method:

Sample Depth: Matrix: Soil

Extraction Method: EPA 3546 **Extraction Date:** 02/10/21 17:38

Analytical Date: 02/11/21 16:36

Analyst: SZ 81% Percent Solids:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------|--------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Wes | tborough Lab | | | | | |
| Acenaphthene | 63 | J | ug/kg | 160 | 21. | 1 |
| Fluoranthene | 1200 | | ug/kg | 120 | 23. | 1 |
| Naphthalene | 95 | J | ug/kg | 200 | 25. | 1 |
| Benzo(a)anthracene | 640 | | ug/kg | 120 | 23. | 1 |
| Benzo(a)pyrene | 520 | | ug/kg | 160 | 50. | 1 |
| Benzo(b)fluoranthene | 730 | | ug/kg | 120 | 34. | 1 |
| Benzo(k)fluoranthene | 270 | | ug/kg | 120 | 32. | 1 |
| Chrysene | 560 | | ug/kg | 120 | 21. | 1 |
| Acenaphthylene | 73 | J | ug/kg | 160 | 31. | 1 |
| Anthracene | 200 | | ug/kg | 120 | 40. | 1 |
| Benzo(ghi)perylene | 300 | | ug/kg | 160 | 24. | 1 |
| Fluorene | 68 | J | ug/kg | 200 | 20. | 1 |
| Phenanthrene | 790 | | ug/kg | 120 | 25. | 1 |
| Dibenzo(a,h)anthracene | 71 | J | ug/kg | 120 | 24. | 1 |
| Indeno(1,2,3-cd)pyrene | 340 | | ug/kg | 160 | 28. | 1 |
| Pyrene | 970 | | ug/kg | 120 | 20. | 1 |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|------------------|------------|----------------------------------|--|
| Nitrobenzene-d5 | 71 | 23-120 | |
| 2-Fluorobiphenyl | 64 | 30-120 | |
| 4-Terphenyl-d14 | 58 | 18-120 | |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001 Lab Number:

L2106250

Report Date: 02/12/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Analytical Date: 02/10/21 08:52

Analyst: IM Extraction Method: EPA 3546

02/10/21 02:24 **Extraction Date:**

| arameter | Result | Qualifier | Units | RL | | MDL |
|--------------------------------|---------------|-----------|-----------|-------|--------|-------------|
| Semivolatile Organics by GC/MS | - Westborough | Lab for s | ample(s): | 01-03 | Batch: | WG1463259-1 |
| Acenaphthene | ND | | ug/kg | 130 | | 17. |
| Fluoranthene | ND | | ug/kg | 97 | | 18. |
| Naphthalene | ND | | ug/kg | 160 | | 20. |
| Benzo(a)anthracene | ND | | ug/kg | 97 | | 18. |
| Benzo(a)pyrene | ND | | ug/kg | 130 | | 39. |
| Benzo(b)fluoranthene | ND | | ug/kg | 97 | | 27. |
| Benzo(k)fluoranthene | ND | | ug/kg | 97 | | 26. |
| Chrysene | ND | | ug/kg | 97 | | 17. |
| Acenaphthylene | ND | | ug/kg | 130 | | 25. |
| Anthracene | ND | | ug/kg | 97 | | 32. |
| Benzo(ghi)perylene | ND | | ug/kg | 130 | | 19. |
| Fluorene | ND | | ug/kg | 160 | | 16. |
| Phenanthrene | ND | | ug/kg | 97 | | 20. |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 97 | | 19. |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 130 | | 22. |
| Pyrene | ND | | ug/kg | 97 | | 16. |

| Surrogate | %Recovery Q | Acceptance ualifier Criteria |
|----------------------|-------------|---------------------------------|
| 2-Fluorophenol | 83 | 25-120 |
| Phenol-d6 | 88 | 10-120 |
| Nitrobenzene-d5 | 81 | 23-120 |
| 2-Fluorobiphenyl | 96 | 30-120 |
| 2,4,6-Tribromophenol | 98 | 10-136 |
| 4-Terphenyl-d14 | 105 | 18-120 |



Lab Control Sample Analysis Batch Quality Control

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2106250

| arameter | LCS %Recovery | Qual | LCSD %Recover | ry | %Recovery Qual Limits | RPD | Qual | RPD Limits |
|--|------------------|-----------------|------------------|--------|--------------------------|--------|------|---------------|
| emivolatile Organics by GC/MS - Westbord | ough Lab Associ | ated sample(s): | 01-03 E | Batch: | WG1463259-2 WG146 | 3259-3 | | |
| Acenaphthene | 106 | | 94 | | 31-137 | 12 | ı | 50 |
| Fluoranthene | 109 | | 99 | | 40-140 | 10 | | 50 |
| Naphthalene | 95 | | 87 | | 40-140 | 9 | | 50 |
| Benzo(a)anthracene | 113 | | 103 | | 40-140 | 9 | | 50 |
| Benzo(a)pyrene | 115 | | 102 | | 40-140 | 12 | | 50 |
| Benzo(b)fluoranthene | 119 | | 102 | | 40-140 | 15 | | 50 |
| Benzo(k)fluoranthene | 111 | | 100 | | 40-140 | 10 | | 50 |
| Chrysene | 113 | | 102 | | 40-140 | 10 | | 50 |
| Acenaphthylene | 105 | | 95 | | 40-140 | 10 | | 50 |
| Anthracene | 112 | | 101 | | 40-140 | 10 | | 50 |
| Benzo(ghi)perylene | 113 | | 101 | | 40-140 | 11 | | 50 |
| Fluorene | 105 | | 94 | | 40-140 | 11 | | 50 |
| Phenanthrene | 109 | | 98 | | 40-140 | 11 | | 50 |
| Dibenzo(a,h)anthracene | 116 | | 104 | | 40-140 | 11 | | 50 |
| Indeno(1,2,3-cd)pyrene | 113 | | 103 | | 40-140 | 9 | | 50 |
| Pyrene | 106 | | 96 | | 35-142 | 10 | | 50 |

Lab Control Sample Analysis Batch Quality Control

Project Name: MICHIGAN & BEST

Lab Number:

L2106250

Project Number: T0371-021-001

Report Date:

02/12/21

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

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1463259-2 WG1463259-3

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|----------------------|-----------------------|------------------------|------------------------|
| 2-Fluorophenol | 89 | 81 | 25-120 |
| Phenol-d6 | 94 | 85 | 10-120 |
| Nitrobenzene-d5 | 92 | 86 | 23-120 |
| 2-Fluorobiphenyl | 107 | 98 | 30-120 |
| 2,4,6-Tribromophenol | 121 | 109 | 10-136 |
| 4-Terphenyl-d14 | 116 | 104 | 18-120 |



METALS



SAMPLE RESULTS

 Lab ID:
 L2106250-01
 Date Collected:
 02/09/21 08:30

 Client ID:
 TP-11 2-3FT
 Date Received:
 02/09/21

 Sample Location:
 T0371-021-001
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 79%

| Percent Solids: | 1970 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|-----------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| Tatal Matala Mass | - C - L - L - L | | | | | | | | | | |
| Total Metals - Man | stield Lab | | | | | | | | | | |
| Arsenic, Total | 12.9 | | mg/kg | 0.500 | 0.104 | 1 | 02/11/21 01:55 | 5 02/11/21 11:17 | EPA 3050B | 1,6010D | GD |
| Barium, Total | 185 | | mg/kg | 0.500 | 0.087 | 1 | 02/11/21 01:55 | 5 02/11/21 11:17 | EPA 3050B | 1,6010D | GD |
| Cadmium, Total | ND | | mg/kg | 0.500 | 0.049 | 1 | 02/11/21 01:55 | 5 02/11/21 11:17 | EPA 3050B | 1,6010D | GD |
| Chromium, Total | 21.0 | | mg/kg | 0.500 | 0.048 | 1 | 02/11/21 01:55 | 5 02/11/21 11:17 | EPA 3050B | 1,6010D | GD |
| Lead, Total | 1210 | | mg/kg | 2.50 | 0.134 | 1 | 02/11/21 01:55 | 5 02/11/21 11:17 | EPA 3050B | 1,6010D | GD |
| Mercury, Total | 0.531 | | mg/kg | 0.087 | 0.057 | 1 | 02/11/21 01:47 | 7 02/11/21 12:54 | EPA 7471B | 1,7471B | EW |
| Selenium, Total | 1.13 | | mg/kg | 1.00 | 0.129 | 1 | 02/11/21 01:55 | 5 02/11/21 11:17 | EPA 3050B | 1,6010D | GD |
| Silver, Total | 0.390 | J | mg/kg | 0.500 | 0.142 | 1 | 02/11/21 01:55 | 5 02/11/21 11:17 | EPA 3050B | 1,6010D | GD |



SAMPLE RESULTS

 Lab ID:
 L2106250-02
 Date Collected:
 02/09/21 11:00

 Client ID:
 TP-17 2-3FT
 Date Received:
 02/09/21

 Sample Location:
 T0371-021-001
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 80%

| reiterit Solius. | 0070 | | | | | Dilution | Date | Date | Prep | Analytical | |
|--------------------|------------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| Total Metals - Man | sfield Lab | | | | | | | | | | |
| Total Motalo Man | onora zab | | | | | | | | | | |
| Arsenic, Total | 5.58 | | mg/kg | 0.498 | 0.104 | 1 | 02/11/21 01:55 | 5 02/11/21 11:22 | EPA 3050B | 1,6010D | GD |
| Barium, Total | 144 | | mg/kg | 0.498 | 0.087 | 1 | 02/11/21 01:55 | 5 02/11/21 11:22 | EPA 3050B | 1,6010D | GD |
| Cadmium, Total | 0.055 | J | mg/kg | 0.498 | 0.049 | 1 | 02/11/21 01:55 | 5 02/11/21 11:22 | EPA 3050B | 1,6010D | GD |
| Chromium, Total | 8.13 | | mg/kg | 0.498 | 0.048 | 1 | 02/11/21 01:55 | 5 02/11/21 11:22 | EPA 3050B | 1,6010D | GD |
| Lead, Total | 182 | | mg/kg | 2.49 | 0.134 | 1 | 02/11/21 01:55 | 5 02/11/21 11:22 | EPA 3050B | 1,6010D | GD |
| Mercury, Total | 0.420 | | mg/kg | 0.091 | 0.060 | 1 | 02/11/21 01:47 | 7 02/11/21 12:57 | EPA 7471B | 1,7471B | EW |
| Selenium, Total | 0.169 | J | mg/kg | 0.997 | 0.128 | 1 | 02/11/21 01:55 | 5 02/11/21 11:22 | EPA 3050B | 1,6010D | GD |
| Silver, Total | 0.239 | J | mg/kg | 0.498 | 0.141 | 1 | 02/11/21 01:55 | 5 02/11/21 11:22 | EPA 3050B | 1,6010D | GD |
| | | | | | | | | | | | |



SAMPLE RESULTS

 Lab ID:
 L2106250-03
 Date Collected:
 02/09/21 12:00

 Client ID:
 TP-18 2-3FT
 Date Received:
 02/09/21

 Sample Location:
 T0371-021-001
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 81%

| reident Solids. | 0170 | | | | | Dilution | Date | Date | Prep | Analytical | |
|---------------------|-----------|-----------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
| | | | | | | | | | | | |
| Total Metals - Mans | field Lab | | | | | | | | | | |
| Arsenic, Total | 21.6 | | mg/kg | 0.471 | 0.098 | 1 | 02/11/21 01:55 | 5 02/11/21 11:26 | EPA 3050B | 1,6010D | GD |
| Barium, Total | 433 | | mg/kg | 0.471 | 0.082 | 1 | 02/11/21 01:55 | 5 02/11/21 11:26 | EPA 3050B | 1,6010D | GD |
| Cadmium, Total | 2.41 | | mg/kg | 0.471 | 0.046 | 1 | 02/11/21 01:55 | 5 02/11/21 11:26 | EPA 3050B | 1,6010D | GD |
| Chromium, Total | 22.8 | | mg/kg | 0.471 | 0.045 | 1 | 02/11/21 01:55 | 5 02/11/21 11:26 | EPA 3050B | 1,6010D | GD |
| Lead, Total | 3580 | | mg/kg | 2.35 | 0.126 | 1 | 02/11/21 01:55 | 5 02/11/21 11:26 | EPA 3050B | 1,6010D | GD |
| Mercury, Total | 0.586 | | mg/kg | 0.084 | 0.055 | 1 | 02/11/21 01:47 | 7 02/11/21 13:00 | EPA 7471B | 1,7471B | EW |
| Selenium, Total | 0.890 | J | mg/kg | 0.942 | 0.121 | 1 | 02/11/21 01:55 | 5 02/11/21 11:26 | EPA 3050B | 1,6010D | GD |
| Silver, Total | 0.918 | | mg/kg | 0.471 | 0.133 | 1 | 02/11/21 01:55 | 5 02/11/21 11:26 | EPA 3050B | 1,6010D | GD |



Project Name: MICHIGAN & BEST
Project Number: T0371-021-001

 Lab Number:
 L2106250

 Report Date:
 02/12/21

Method Blank Analysis Batch Quality Control

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--------------------------|--------------------|---------|----------|--------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield | Lab for sample(s): | 01-03 B | atch: Wo | G14634 | 94-1 | | | | |
| Arsenic, Total | ND | mg/kg | 0.400 | 0.083 | 1 | 02/11/21 01:55 | 02/11/21 08:32 | 1,6010D | GD |
| Barium, Total | ND | mg/kg | 0.400 | 0.070 | 1 | 02/11/21 01:55 | 02/11/21 08:32 | 1,6010D | GD |
| Cadmium, Total | ND | mg/kg | 0.400 | 0.039 | 1 | 02/11/21 01:55 | 02/11/21 08:32 | 1,6010D | GD |
| Chromium, Total | ND | mg/kg | 0.400 | 0.038 | 1 | 02/11/21 01:55 | 02/11/21 08:32 | 1,6010D | GD |
| Lead, Total | ND | mg/kg | 2.00 | 0.107 | 1 | 02/11/21 01:55 | 02/11/21 08:32 | 1,6010D | GD |
| Selenium, Total | ND | mg/kg | 0.800 | 0.103 | 1 | 02/11/21 01:55 | 02/11/21 08:32 | 1,6010D | GD |
| Silver, Total | ND | mg/kg | 0.400 | 0.113 | 1 | 02/11/21 01:55 | 02/11/21 08:32 | 1,6010D | GD |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytica Method | |
|---------------------|---------------------------|---------|---------|--------|--------------------|------------------|------------------|---------------------|----|
| Total Metals - Mans | sfield Lab for sample(s): | 01-03 B | atch: W | G14634 | 95-1 | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | 0.054 | 1 | 02/11/21 01:47 | 02/11/21 11:51 | 1 1,7471B | EW |

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis Batch Quality Control

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2106250

| Parameter | LCS %Recover | y Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|-----------------|-------------|-------------------|-------------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample | e(s): 01-03 E | Batch: WG14 | 63494-2 SRM | Lot Number: | D109-540 | | | |
| Arsenic, Total | 117 | | - | | 70-130 | - | | |
| Barium, Total | 106 | | - | | 75-125 | - | | |
| Cadmium, Total | 111 | | - | | 75-125 | - | | |
| Chromium, Total | 110 | | - | | 70-130 | - | | |
| Lead, Total | 113 | | - | | 72-128 | - | | |
| Selenium, Total | 115 | | - | | 68-132 | - | | |
| Silver, Total | 112 | | - | | 68-131 | - | | |
| Total Metals - Mansfield Lab Associated sampl | e(s): 01-03 E | Batch: WG14 | 63495-2 SRM | Lot Number: | D109-540 | | | |
| Mercury, Total | 100 | | - | | 60-140 | - | | |

Matrix Spike Analysis Batch Quality Control

Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number: L2106250

| arameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery Qu | Recovery ual Limits | y RPD Qual | RPD Limits |
|-----------------------------|------------------|----------------|-------------|-----------------|--------|--------------|---------------------|------------------------|---------------|---------------|
| otal Metals - Mansfield Lab | Associated sam | nple(s): 01-03 | QC Ba | tch ID: WG146 | 3494-3 | QC Sam | ple: L2106227-01 | Client ID: N | /IS Sample | |
| Arsenic, Total | 467 | 14.3 | 703 | 1650 | Q | - | - | 75-125 | - | 20 |
| Barium, Total | 167 | 238 | 411 | 102 | | - | - | 75-125 | - | 20 |
| Cadmium, Total | ND | 6.08 | 5.95 | 98 | | - | - | 75-125 | - | 20 |
| Chromium, Total | 76.6 | 23.8 | 102 | 106 | | - | - | 75-125 | - | 20 |
| Lead, Total | 278 | 60.8 | 407 | 212 | Q | - | - | 75-125 | - | 20 |
| Selenium, Total | 0.911J | 14.3 | 15.6 | 109 | | - | - | 75-125 | - | 20 |
| Silver, Total | 0.364J | 35.8 | 36.2 | 101 | | - | - | 75-125 | - | 20 |
| otal Metals - Mansfield Lab | Associated sam | nple(s): 01-03 | QC Ba | tch ID: WG146 | 3495-3 | QC Sam | ple: L2106227-01 | Client ID: N | //S Sample | |
| Mercury, Total | 0.863 | 0.197 | 1.43 | 288 | Q | - | - | 80-120 | - | 20 |

Lab Duplicate Analysis Batch Quality Control

Project Name: MICHIGAN & BEST **Project Number:** T0371-021-001

Lab Number:

L2106250

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|----------------|------------------------|-------------|------------|---------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-03 | 3 QC Batch ID: | WG1463494-4 QC Sample: | L2106227-01 | Client ID: | DUP Sam | ple |
| Arsenic, Total | 467 | 242 | mg/kg | 63 | Q | 20 |
| Barium, Total | 167 | 130 | mg/kg | 25 | Q | 20 |
| Cadmium, Total | ND | ND | mg/kg | NC | | 20 |
| Chromium, Total | 76.6 | 35.1 | mg/kg | 74 | Q | 20 |
| Lead, Total | 278 | 183 | mg/kg | 41 | Q | 20 |
| Selenium, Total | 0.911J | 0.380J | mg/kg | NC | | 20 |
| Silver, Total | 0.364J | ND | mg/kg | NC | | 20 |
| Total Metals - Mansfield Lab Associated sample(s): 01-03 | 3 QC Batch ID: | WG1463495-4 QC Sample: | L2106227-01 | Client ID: | DUP Sam | ple |
| Mercury, Total | 0.863 | 1.60 | mg/kg | 60 | Q | 20 |

INORGANICS & MISCELLANEOUS



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001 Lab Number:

L2106250

Report Date: 02/12/21

SAMPLE RESULTS

Lab ID: L2106250-01

Client ID: TP-11 2-3FT Sample Location: T0371-021-001 Date Collected:

02/09/21 08:30

Date Received:

02/09/21

Not Specified Field Prep:

Sample Depth:

Matrix:

Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|------------------------|----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - We | estborough Lab | | | | | | | | | |
| Solids, Total | 79.0 | | % | 0.100 | NA | 1 | - | 02/11/21 06:52 | 121,2540G | RI |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2106250

Report Date: 02/12/21

SAMPLE RESULTS

Lab ID: L2106250-02

Client ID: TP-17 2-3FT Sample Location: T0371-021-001

Date Collected:

02/09/21 11:00

Date Received:

02/09/21

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 | 80.3 | | % | 0.100 | NA | 1 | - | 02/11/21 06:52 | 121,2540G | RI |



Project Name: MICHIGAN & BEST

Project Number: T0371-021-001

Lab Number:

L2106250

Report Date: 02/12/21

SAMPLE RESULTS

Lab ID: L2106250-03

Client ID: TP-18 2-3FT Sample Location: T0371-021-001

Date Collected:

02/09/21 12:00

Date Received:

02/09/21

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 | Vestborough Lab |) | | | | | | | | |
| Solids, Total | 81.4 | | % | 0.100 | NA | 1 | - | 02/11/21 06:52 | 121,2540G | RI |



Lab Duplicate Analysis

Batch Quality Control

Lab Number:

L2106250

Report Date:

02/12/21

| Parameter | Native Sam | ple D | uplicate Sample | Units | RPD | Qual | RPD Limits |
|-------------------------------------|-----------------------------|--------------|-----------------|------------|-------------|------------|------------|
| General Chemistry - Westborough Lab | Associated sample(s): 01-03 | QC Batch ID: | WG1463684-1 | QC Sample: | L2106234-01 | Client ID: | DUP Sample |
| Solids, Total | 85.9 | | 84.8 | % | 1 | | 20 |



Project Name:

Project Number:

MICHIGAN & BEST

T0371-021-001

Lab Number: L2106250

Report Date: 02/12/21

Project Name: MICHIGAN & BEST **Project Number:** T0371-021-001

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler Custody Seal

A Absent

| Container Info | rmation | | Initial | Final | Temp | | | Frozen | |
|----------------|------------------------------------|--------|---------|-------|-------|------|--------|-----------|---|
| Container ID | Container Type | Cooler | рН | рН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L2106250-01A | Glass 120ml/4oz unpreserved | Α | NA | | 2.9 | Υ | 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) |
| L2106250-01B | Glass 120ml/4oz unpreserved | Α | NA | | 2.9 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| L2106250-02A | Vial Large Septa unpreserved (4oz) | A | NA | | 2.9 | 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) |
| L2106250-02B | Vial Large Septa unpreserved (4oz) | Α | NA | | 2.9 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| L2106250-03A | Vial Large Septa unpreserved (4oz) | A | NA | | 2.9 | 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) |
| L2106250-03B | Vial Large Septa unpreserved (4oz) | Α | NA | | 2.9 | Υ | Absent | | NYCP51-PAH(14),TS(7) |
| L2106250-04A | Glass 120ml/4oz unpreserved | Α | NA | | 2.9 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2106250-04B | Glass 120ml/4oz unpreserved | Α | NA | | 2.9 | Υ | Absent | | HOLD-8270(14) |
| L2106250-05A | Glass 120ml/4oz unpreserved | Α | NA | | 2.9 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2106250-05B | Glass 120ml/4oz unpreserved | Α | NA | | 2.9 | Υ | Absent | | HOLD-8270(14) |
| L2106250-06A | Vial Large Septa unpreserved (4oz) | Α | NA | | 2.9 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2106250-06B | Vial Large Septa unpreserved (4oz) | Α | NA | | 2.9 | Υ | Absent | | HOLD-8270(14) |
| L2106250-07A | Vial Large Septa unpreserved (4oz) | Α | NA | | 2.9 | Υ | Absent | | HOLD-METAL(180),HOLD-HG(28) |
| L2106250-07B | Vial Large Septa unpreserved (4oz) | Α | NA | | 2.9 | Υ | Absent | | HOLD-8270(14) |
| | | | | | | | | | |



Project Name: Lab Number: MICHIGAN & BEST L2106250 **Project Number:** T0371-021-001 **Report Date:** 02/12/21

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 Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

- 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.

- 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



SRM

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 concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was 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:MICHIGAN & BESTLab Number:L2106250Project Number:T0371-021-001Report Date:02/12/21

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

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

ID No.:17873

Revision 17

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 | Project Location: Project # 7037 | JICh/ja | n + Bes | | e f Z | | erables ASP-A | ec'd ab O' | | ASP-B EQuIS | 2 (4 File) | ALPHA Job# L | |
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