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MassDEP RTN 3-18126

RAM Completion Report for Targeted Excavations, Lots 1 and 2

Former Tombarello Site
207 Marston Street, Lawrence, Massachusetts

Submitted to:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
Northeast Regional Office
205B Lowell Street
Wilmington, MA 01887

Submitted by:

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Project 1802441



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Executive Summary

On behalf of the City of Lawrence, GEI Consultants, Inc., is submitting this Release Abatement Measure (RAM) Completion Report for targeted soil excavations on both Lots 1 and 2 of the former Tombarello property at 207 Marston Street in Lawrence, Massachusetts (the Site). The Site is listed by the Massachusetts Department of Environmental Protection (MassDEP) as a disposal site with Release Tracking Number (RTN) 3-18126. This RAM Completion Report was prepared to meet the requirements of the Massachusetts Contingency Plan (MCP; 310 CMR 40.0446).

On June 9, 2020, a RAM Plan was submitted detailing the plans for the excavation and offsite disposal of soil from the northwest portion of Lot 1 with extractable petroleum hydrocarbon (EPH) concentrations above MCP upper concentration limits and polychlorinated biphenyls (PCBs) potentially above 1 part per million (ppm); removal and offsite disposal of asphalt with PCBs above 1 ppm from the northwest portion of Lot 1; and the excavation and offsite disposal of soil from Lot 2 from select areas where PCBs are above 100 ppm.

RAM activities were conducted between June and August 2020 by W. L. French Excavating Corporation of North Billerica, Massachusetts. Approximately 191 tons of EPH and PCB contaminated soil were excavated from Lot 1 and approximately 391 tons of PCB contaminated asphalt were removed from Lot 1 and disposed at Turnkey Landfill in Rochester, New Hampshire. Approximately 422 tons of PCB contaminated soil were excavated from Lot 2 and disposed at Chemical Waste Management in Emelle, Alabama.

GEI collected soil samples at the limits of the excavations on both Lots 1 and 2. Based on the results of sampling on Lot 1, EPH concentrations in soil at the limits of the targeted EPH excavation area are below MCP Method 1 S1/GW3 standards and Upper Concentration Limits (UCLs) and PCB concentrations at the limits of the targeted PCB excavation area are below 1 ppm. Based on the results of post-excavation sampling on Lot 2, PCBs remain above 100 ppm at the limits the excavations in some areas.

The RAM was conducted in general accordance with the June 2020 RAM Plan. The limits of the Lot 2 excavation were adjusted from the initially proposed limits based on available funding. Based on the results of field observations and soil verification sampling, the RAM achieved the objectives identified in the RAM Plan for Lot 1. Although ≤ 100 ppm PCBs were not achieved at the limits of the Lot 2 excavations, the objective of removing soil with elevated PCBs from Lot 2 was achieved.

1. Introduction

On behalf of the City of Lawrence, GEI Consultants, Inc. prepared this Release Abatement Measure (RAM) Completion Report for targeted soil excavations on both Lots 1 and 2 of the former Tombarello property at 207 Marston Street in Lawrence, Massachusetts (Fig. 1; the Site). The Site is listed by the Massachusetts Department of Environmental Protection (MassDEP) as a disposal site with Release Tracking Number (RTN) 3-18126 (Fig. 2). The RAM was performed in general accordance with the RAM Plan submitted on June 9, 2020.

This RAM Completion Report was prepared in accordance with the requirements of the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). The original MassDEP RAM Transmittal Form (BWSC106) was submitted electronically via eDEP, and a copy is in Appendix A.

The purpose of this RAM Completion Report is to document the RAM activities conducted, provide a summary of the results of the RAM, and demonstrate that the objectives of the RAM have been achieved.

1.1 Contact Information

The contact information for the persons responsible for the RAM is provided below:

Municipality conducting RAM with Exempt Status
Pedro Soto, Planning Director
Office of Planning & Development
City of Lawrence
12 Methuen Street
Lawrence, MA 01840
978-620-3501

Licensed Site Professional (LSP)
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2. Description of Release, Site Conditions, and Surrounding Receptors (310 CMR 40.0446[4][a])

2.1 Site Description

The Site is an approximately 14-acre, property at 207 Marston Street in Lawrence, Massachusetts (Fig. 1). The Property has been sub-divided into two lots, Lot 1 and Lot 2 (Fig. 2). Lot 1 is a 2.6-acre parcel to the west and Lot 2 is an 11.4-acre parcel to the east. The RAM was conducted on portions of both Lots 1 and 2 (Fig. 2).

The Site is developed with structures associated with its historical use as a metal recycling facility, including a metal shop/garage and furnace building and a former house. There are concrete foundations of other structures, including a baler/press area, small shear, and large shear building on the Site. Other Site features include a 10 to 20-foot-high soil berm located along the eastern and southern Site boundaries and soil and debris piles. The soil berms were reportedly constructed by pushing shallow soil from the Site toward the southern and eastern boundaries.

The entire Site is vacant and is surrounded with a gated and locked chain link fence to restrict access. A portion of the Site, primarily on Lot 1, is paved. The remainder of the Site that is not occupied with structures or concrete foundations, is covered with overgrown native vegetation.

2.2 Surrounding Land Use and Receptors

Residential properties abut the Site to the north, along Hoffman Avenue. An apartment complex is northwest of the Site across Marston Street. West of the Site and across Marston Street is the Partham Elementary School. Commercial properties, including a cargo and freight company and an auto dealership, abut the Site to the south. The Site is bounded to the east by Route 495. The Merrimack River is east of Route 495.

The Site is not located within a MassDEP approved Wellhead Protection Area (Zone II Area), MassDEP Interim Wellhead Protection Area (IWPA), or potentially productive aquifer (PPA), and no public water supply wells are located within 500 feet of the Site. The Merrimack River is approximately 450 feet east of the Site.

2.3 Release Description and Background

An Environmental Site Assessment conducted in 1998 identified polychlorinated biphenyls (PCBs) in surface soil at concentrations representing a potential Imminent Hazard (IH). The Massachusetts Department of Environmental Protection (MassDEP) assigned RTN 3-18126 in March 1999 to the release and required that an Immediate Response Action (IRA) be conducted to address the potential IH. Condition. The IRA installed a fence at the Site perimeter to restrict access and eliminate the IH.

Subsequent investigations were conducted on both Lots 1 and 2 to evaluate the nature and extent of contamination, including MCP Phase II investigations in 2003 and subsequent PCB investigations in 2005 by Weston Solutions, Inc. (Weston) on behalf of a former property owner; a Preliminary Assessment/Site Investigation (PA/SI) in 2010 by Weston on behalf of the U.S. Environmental Protection Agency (EPA); a Targeted Brownfields Assessment (TBA) in 2016 by Nobis Engineering, Inc. on behalf of EPA; supplemental investigations on Lot 2 in 2019 and 2020 by GEI on behalf of the City of Lawrence; supplemental investigations on Lot 1 in 2019 by Credere Associates on behalf of the City of Lawrence; and investigations on Lot 1 in 2020 by GEI on behalf of the City of Lawrence.

Site contamination is primarily PCBs, metals, petroleum hydrocarbons, and polycyclic aromatic hydrocarbons (PAHs) in soil. Because PCBs at concentrations greater than 50 parts per million (ppm) are present in Site soil, in addition to compliance with the MCP, assessment and cleanup is also subject to the Toxic Substances Control Act (TSCA; 40 CFR 761).

The City of Lawrence received an EPA Brownfields Cleanup Grant (Grant # BF00A00375) to conduct cleanup activities on Lot 1 and a MassDevelopment Brownfields Recoverable Remediation Grant to conduct limited cleanup activities on Lot 2. The RAM was conducted using the cleanup grants obtained for both lots.

3. RAM Activities (310 CMR 40.0446[4][b],[c])

The RAM was conducted in general accordance with the RAM Plan submitted on June 9, 2020. The portion of the RAM conducted on Lot 1 was also conducted in accordance with a “Self-Implementing PCB Cleanup and Disposal Plan” dated April 2020 (SIP) prepared to meet the requirements of the *Self-implementing On-site Cleanup and Disposal* provisions (§761.61[a]) of the Toxic Substances Control Act (TSCA; 40 CFR 761) and EPA’s SIP approval dated May 13, 2020. The portion of the RAM conducted on Lot 2 was conducted in accordance with the *Performance-based Disposal* provisions (§761.61[b]) of TSCA.

RAM activities were conducted between June and September 2020.

3.1 RAM Objectives

The objectives of the RAM for Lot 1 were to achieve a Condition of No Significant Risk (NSR) to current receptors on the northwest portion of Lot 1 (Fig. 2) by:

- Removing and disposing of PCB-contaminated asphalt surface cover on the northwest portion of Lot 1.
- Excavating and disposing of soil on the northwest portion of Lot 1 where extractable petroleum hydrocarbons (EPH) concentrations are above MCP upper concentration limits (UCLs) (Excavation Area #3).
- Excavating and disposing off-site soil on the northwest portion of Lot 1 to confirm PCBs are less than or equal to 1 ppm in remaining soil (Excavation Area #4).

The objective of the RAM for Lot 2 was to achieve less than or equal to 100 ppm PCBs at selected areas by:

- Excavating and disposing of soil from select areas with PCB concentrations greater than 100 ppm (Excavation Areas #1 and #2).

3.2 Summary of Work

Between June 17 and September 28, 2020, W. L. French Excavating Corporation, (the Contractor) of North Billerica, Massachusetts conducted the RAM. GEI provided part-time on-site field representative to monitor and document Contractor activities and waste management for conformance with the specifications, and to operate and monitor the perimeter dust monitoring system.

Key elements of the RAM included:

- Mobilization and site preparation.
- Excavation and offsite disposal of contaminated soil.
- Removal and offsite disposal of asphalt from the northwest portion of Lot 1.
- Soil verification sampling.
- Backfill and restoration.
- Management of remediation waste.
- Environmental monitoring and controls, including perimeter dust monitoring and establishing, monitoring, and maintaining erosion and sedimentation controls.
- Fence installation (Lot 1).

Below is a summary of RAM activities completed.

3.3 Mobilization and Site Preparation

Contractor mobilization began on June 17, 2020, and included mobilization of the heavy equipment, construction of the wheel wash area, installation of sediment controls including filter bags in the storm drain catch basins on Marston Street and coir logs at the western and northern limits of Lot 1. A fabric privacy screen was installed on the existing perimeter fence line at the northern and western limits of Lot 1.

The perimeter dust monitoring system was installed and operational on June 17, 2020. Details of the operation of the perimeter dust monitoring system are in Section 4.

3.4 Lot 1 RAM Activities

The extents of RAM activities on Lot 1 are shown in Fig. 2.

3.4.1 Removal of the asphalt surface cover

From June 30 to July 2, 2020, an approximate 10,000 square-foot area of asphalt surface cover was removed from the northwest portion of Lot 1 (Fig. 2). Asphalt was temporarily stockpiled onsite within the northwest portion of Lot 1 or live loaded on to tractor trailers for offsite disposal at Turnkey Recycling and Environmental Enterprises (TREE) of Rochester, New Hampshire.

3.4.2 Soil Excavation

On June 30, 2020, EPH contaminated soil was removed from Excavation Area #3 (Figs. 2 and 3). The completed excavation was about 12 feet wide by 12 feet long and extended to a depth of approximately seven feet. The total in-situ volume of soil removed from Excavation Area #3 was about 37 cubic yards.

On June 30, 2020, PCB contaminated soil was removed from Excavation Area #4 (Fig. 3). The excavation was about 5 feet wide by 108 feet long and extended to a depth of about 3 feet. The total in-situ volume of soil removed from Excavation Area #4 was about 84 cubic yards.

Excavated soil was directly loaded onto trucks for offsite transportation to TREE for disposal.

3.4.3 Soil Verification Sampling

Soil verification samples were collected from the limits of both excavations as described in the June 2020 RAM Plan and the Site-Specific QAPP Addendum No. 1, Revision 01, dated March 11, 2020 that was prepared for Lot 1 cleanup activities. Soil samples were submitted to ESS Laboratories of Cranston, Rhode Island for chemical testing. Samples for PCB testing were analyzed by EPA Method 8082 (manual Soxhlet extraction); samples for lead testing were analyzed by EPA Method 6010, and samples for EPH testing were analyzed by the MassDEP EPH Method.

A total of six samples (including one field duplicate [FD-03]) for EPH testing were collected from the limits of Excavation Area #3 (Fig. 3). One sample was collected from each of the four sidewalls of the excavation at a depth interval of 5 to 7 feet (EX3-01S through EX3-04S), and one sample was collected from the bottom of the excavation at a depth of 7 feet (EX-05B).

The EPH fraction C₉-C₁₈ aliphatics was detected in one of the six samples (EX3-01S) at a concentration of 21.9 ppm which is well below the MCP Method 1 S-1/GW3 standard of 3,000 and the UCL. The EPH fraction C₉-C₁₈ aliphatics was not detected in the remaining samples (Table 1).

A total of five soil samples (including one field duplicate [FD-04]) for lead testing were collected from the sidewalls of Excavation Area #3 from a depth of 0 to 3 feet (EX3-06S through EX3-09S) (Fig. 3). Samples were collected to evaluate risk to potential future residents exposed to shallow soil. Lead concentrations in the sidewall samples ranged from 11.5 ppm to 406 ppm (Table 1).

A total of thirty-five soil samples (including two field duplicates [FD-05 and FD-06]) for PCB testing were collected from the limits of Excavation Area #4 (Fig. 3). Samples were collected at a frequency of one sample every 10 linear feet along the north and south sidewalls (EX4-01S through EX-32S) and bottom of the excavation (EX4-03B through EX4-33B). The sidewall samples were collected from a depth interval of 1 to 1 ½ feet and the bottom samples were collected at a depth of 3 feet.

PCB concentrations in the sidewall samples ranged from non-detect to 0.3 ppm. PCB concentrations in the bottom samples ranged from non-detect to 0.6 ppm. Laboratory results are summarized in Table 1 and laboratory data reports are in Appendix B.

3.4.4 Backfill and Restoration

On July 23, 2020, an orange geotextile separation layer was placed along the southern sidewall of Excavation Area #4 to mark the southern extent of the excavation and provide separation from the southern portion of Lot 1. Clean imported crushed stone was placed in both Excavation Areas #3 and #4 in one-foot lifts and compacted using a vibratory plate compactor. Areas where the pavement was removed was restored with topsoil and native seed mix.

On September 17 and 18, CAAN Fence, Inc. of Randolph, Massachusetts installed a 6-foot high chain link fence about 3 feet north of the southern limit of Excavation Area #4 tying into the existing perimeter fence to the east and west (Fig. 2).

3.5 Lot 2 RAM Activities

3.5.1 Soil Excavation

Excavation Areas #1 and #2 were excavated to remove soil from select areas with PCBs greater than 100 ppm.

On June 23 and 24, 2020, Excavation Area #1 was excavated to depths ranging from about 2 to 6 feet (Fig. 4). A soil pile encroached on the northeast portion of the excavation (Excavation Area #1A; Fig. 4), limiting the eastern extent of excavation and shortening it by about two feet. The total in-situ volume of soil excavated from Area #1 was about 191 cubic yards.

On June 24, 2020, Excavation Area #2 was excavated to a depth of about 3 feet to the limits shown in Fig 4. The quantity of soil removed from Excavation Area #2 was based on available grant funding. The total in-situ volume of soil excavated from Excavation Area #2 was about 63 cubic yards.

3.5.2 Soil Verification Sampling

Soil verification samples were collected at an approximate frequency of one sample every 20 linear feet along the sidewalls of Excavation Area #1 and #2, and approximately one sample every 400 square feet (an approximately 20 ft by 20 ft area) at the bottoms of the excavations. One field duplicate sample was collected for every 20 samples collected. Samples were submitted to ESS for PCB testing by EPA Method 8082 (manual Soxhlet extraction).

On June 23 and 24, a total of 17 samples (including 1 field duplicate [FD-01]) for PCB testing were collected from Excavation Area #1 (Fig. 3). PCB concentrations in sidewall samples (EX1-01S through EX1-12S) ranged from non-detect to 2,830 ppm and bottom samples (EX1-04B through EX1-16B) ranged from 0.2 ppm to 273 ppm (Table 2).

On June 24 and 25, a total of 11 samples (including 1 field duplicate [FD-02]) for PCB testing were collected from Excavation Area #2 (Fig. 4). PCB concentrations in sidewall samples (EX2-01S through EX2-05S) ranged from 29.2 ppm to 628 ppm and bottom samples (EX2-06B through EX2-10B) ranged from non-detect to 0.6 ppm (Table 2).

Laboratory results are summarized in Table 2 and laboratory data reports are in Appendix B.

3.5.3 Backfill and Restoration

On June 30, 2020, a geotextile separation layer was placed along the sides and bottoms of the excavations and clean crushed stone was used to backfill the excavations. Crushed stone was placed in the excavations at 1-foot intervals and compacted using a vibratory plate compactor.

4. Investigatory and Monitoring Data (310 CMR 40.0446[4][c])

The collection of soil verification data at the limits of the excavations is discussed in Section 3. This section includes a summary of perimeter dust monitoring data collected during the RAM.

Perimeter dust monitoring data collected included real time concentrations of particulates in ambient air at four locations at the perimeter of the Property. Perimeter dust monitoring was conducted in accordance with the Perimeter Air Monitoring Plan (PAMP) appended to the RAM Plan.

4.1 Perimeter and Work Zone Dust Monitoring

On June 17, 2020, four fixed air monitoring stations (DUST-01, DUST -02, DUST -03, and DUST -04) were installed and were fully operational (Fig. 2). Each station included a Met One Instruments ES-642 dust monitor to measure PM-10. A meteorological monitoring station was co-located with air monitoring station DUST-01.

Between June 17 and June 23, 2020, pre-construction baseline monitoring was conducted prior to initiating soil disturbing activities. The purpose of the baseline monitoring was to establish pre-construction background dust concentrations (PM10) which were used to confirm the appropriateness of the alert and action levels. Baseline dust concentrations were collected continuously and reported as a 15-minute time weighted average. During the baseline monitoring period, the ranges of dust concentrations at each station were:

- DUST-01: 0 micrograms per cubic meters ($\mu\text{g}/\text{m}^3$) – 22.2 $\mu\text{g}/\text{m}^3$
- DUST-02: 1.4 $\mu\text{g}/\text{m}^3$ – 19.6 $\mu\text{g}/\text{m}^3$
- DUST-03: 0.2 $\mu\text{g}/\text{m}^3$ – 7.5 $\mu\text{g}/\text{m}^3$
- DUST-04: 12.4 $\mu\text{g}/\text{m}^3$ – 68.3 $\mu\text{g}/\text{m}^3$

During excavation activities on Lot 2, the ranges of dust concentrations at each station were generally within the range of baseline concentrations. There were no exceedances of the alert level (100 $\mu\text{g}/\text{m}^3$) or action level (150 $\mu\text{g}/\text{m}^3$).

On June 29, prior to conducting earth disturbing activities on Lot 1, dust monitoring stations DUST-02, DUST-03, and DUST-04 were relocated to the north, east, and south perimeters of the Lot 1 work area. During excavation activities on Lot 1, the ranges of dust concentrations

at each station were generally within the range of baseline concentrations. There were no exceedances of the alert level or action level.

The perimeter air monitoring stations operated continuously through completion of Lot 1 excavation backfilling on backfill activities on July 23, 2020 and until Lot 1 excavation verification results were received confirming that the targeted cleanup levels had been achieved. The dust monitoring stations were shut down and removed from the Site on July 20, 2020.

In addition to perimeter dust monitoring, we conducted ambient air sampling for PCBs and monitored dust levels in the work zone. GEI personnel wore a Buck Libra (LP-5) pump with 13mm Swinnex holder and florasil tube Real Time Air Monitor to collect a dust sample over an 8-hour period when excavations on Lot 2 were being conducted. The sample was submitted to ESML Analytical, Inc. of Cinnaminson, NJ for PCB testing by Method 5503 (Modified). PCBs were not detected in the sample at a concentration above the laboratory reporting limit. The laboratory data report is in Appendix B.

Dust concentrations in the work zone were monitored by GEI when excavations were being conducted. Work zone dust monitoring was performed using a ThermoFisher Scientific pDR-1000AN personal DataRAM, which measured real time mass concentrations of dust. During the RAM, the established PM-10 Work Zone Action Level of 150 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) 15-minute time weighted average was not exceeded.

5. Remediation Waste (310 CMR 40.0446[4][e])

Remediation waste generated during the RAM included excavated soil, removed asphalt, and used personal protective equipment (PPE). Remediation wastes were transported to appropriate disposal facilities identified by the contractor based on material type and/or laboratory information provided by GEI.

5.1 Lot 1 Soil and Asphalt

On June 30, 2020, 191.37 tons of contaminated soil excavated from Excavation Areas #3 and #4 was live loaded onto tractor trailers for transportation and offsite disposal at Turnkey Recycling & Environmental Enterprises (TREE) of Rochester New Hampshire, a State permitted non-hazardous waste landfill. From June 30 to July 2, 2020, 391.04 tons of asphalt stripped from the northwestern portion of Lot 1 was loaded onto tractor trailers and transported to TREE for offsite disposal. The soil and asphalt were transported using a MassDEP Bill of Lading (BOL). Copies of the BOL and supporting Licensed Site Professional (LSP) Opinion Letter, Summary of Shipment Sheet (BWSC112A) and Summary Sheet Signature Page (BWSC112B) are in Appendix C.

5.2 Lot 2 Soil

On June 23 and 24, 2020, 422.41 tons of soil excavated from Excavation Areas #1 and #2 was live loaded onto tractor trailers for disposal at Chemical Waste Management of Emelle, Alabama. Soil was transported offsite under hazardous waste manifests with appropriate waste codes, including the Massachusetts Hazardous Waste Code MA02 for wastes containing PCBs greater than 50 ppm. Copies of the manifests, weight slips, and Certificates of Disposal are in Appendix D.

5.3 Decontamination Wastes and Personal Protective Equipment

On September 28, 2020, two drums of used PPE were transported under a hazardous waste manifest to ENPRO Services of Vermont, Inc. in Williston, Vermont, an EPA approved PCB commercial storage facility. A copy of the manifest is in Appendix D.

6. Ongoing Activities (310 CMR 40.0446[4][f])

There are no ongoing activities related to the RAM that will be conducted at the Site.

7. Findings and Conclusions (310 CMR 40.0446[4][d])

This RAM Completion Report was prepared in accordance with the requirements of the MCP (310 CMR 40.446) to document that the objectives of the RAM Plan have been achieved and the RAM is complete.

The RAM was conducted between June 17 and September 28, 2020 and included:

- Removal and offsite disposal of 391.04 tons of asphalt from the northwest portion of Lot 1.
- Excavation and offsite disposal of 191.37 tons of EPH and PCB contaminated soil (Excavation Areas #3 and #4, respectively) from the northwest portion of Lot 1.
- Excavation and offsite disposal of 422.41 tons of PCB contaminated soil on Lot 2 (Excavation Areas #1 and #2).
- Collection and analysis of soil samples from the limits of each of the excavations.
- Installation of a 6-foot high chain link fence near the southern limit of the northwest portion of Lot 1.

Based on the results of soil verification sampling conducted on Lot 1, EPH concentrations at the limits of Excavation Area #3 are below MCP UCLs and MCP Method 1 S1 GW3 standards and PCB concentrations at the limits of Excavation Area #4 are <1 ppm.

Based on the results of soil verification sampling conducted on Lot 2, PCB concentrations >100 ppm remain at the northern and eastern limits of Excavation Area #1 and at the southern, western, and eastern limits of Excavation Area #2.

The objectives of the RAM on Lot 1 were achieved. The EPH UCL condition was abated and PCB concentrations on the northwest portion of Lot 1 are <1 ppm.

Although the objective of the RAM for Lot 2 was to achieve <100 ppm at the limits of the selected excavation areas and PCB concentrations >100 ppm remain at some of the excavation sidewalls, the RAM objective of removing soil with PCBs >100 ppm was achieved with the available grant funds.

Based on the above, it is our opinion that it is appropriate to close the RAM in accordance with the MCP (310 CMR 40.0446).

8. Limitations

This RAM Completion Report was prepared for the use of the City of Lawrence and MassDEP, exclusively. The conclusions presented in this report are based solely on the information reported in this document. Additional information regarding the Site, not available to GEI at the time this report was prepared, may result in a modification of the findings above. The report has been prepared in accordance with generally accepted hydrogeological practices. No warranty, expressed or implied, is made.

MassDEP RTN 3-18126
RAM Completion Report for Targeted Excavations,
Lots 1 and 2
Former Tombarello Site
207 Marston Street, Lawrence, Massachusetts
October 2020

Tables

Table 1. Chemical Testing Results – Lot 1 Soil
Former Tombarello Site
Lawrence, Massachusetts

Location Name					EX3-01S	EX3-02S	EX3-03S	EX3-04S	EX3-04S	EX3-05B	EX3-06S	EX3-07S	EX3-08S	EX3-09S	EX3-09S	EX4-01S	EX4-02S	EX4-03B	EX4-04S	EX4-05S	
Sample Name					1802441-EX3-01S	1802441-EX3-02S	1802441-EX3-03S	1802441-EX3-04S	1802441-FD-03	1802441-EX3-05B	1802441-EX3-06S	1802441-EX3-07S	1802441-EX3-08S	1802441-EX3-09S	1802441-FD-04	1802441-EX4-01S	1802441-EX4-02S	1802441-EX4-03B	1802441-EX4-04S	1802441-EX4-05S	
Start Depth (ft)					5-7	5-7	5-7	5-7	5-7	7	0-3	0-3	0-3	0-3	0-3	1	1-1.5	3	1-1.5	1-1.5	
Sample Date					6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020
Parent Sample					NA	NA	NA	NA	1802441-EX3-04S	NA	NA	NA	NA	NA	1802441-EX3-09S	NA	NA	NA	NA	NA	
Lab Sample ID					20F1134-01	20F1134-02	20F1134-03	20F1134-04	20F1134-10	20F1134-05	20F1134-06	20F1134-07	20F1134-08	20F1134-09	20F1134-11	20F1133-01	20F1133-02	20F1133-03	20F1133-04	20F1133-05	
Analyte	Method	Units	MCP Method 1 S-1/GW-3	MCP UCL																	
Extractable Petroleum Hydrocarbons (EPH)	MADEP EPH	mg/kg																			
C9-C18 Aliphatics			1000	20000	< 21.3	< 22.7	< 25.5	< 20.7	< 20.4	< 19.7											
C19-C36 Aliphatics			3000	20000	21.9	< 22.7	< 25.5	< 20.7	< 20.4	< 19.7											
C11-C22 Aromatics			1000	10000	26.5	< 22.7	< 25.5	< 20.7	< 20.4	< 19.7											
Fluoranthene			1000	10000	1.03	< 0.61	< 0.68	< 0.55	< 0.54	< 0.53											
Phenanthrene			500	10000	0.67	< 0.61	< 0.68	< 0.55	< 0.54	< 0.53											
Pyrene			1000	10000	0.91	< 0.61	< 0.68	< 0.55	< 0.54	< 0.53											
Total Metals																					
Lead	6010	mg/kg	200	6000	NT	NT	NT	NT	NT	NT	11.5 F+	76.4 F+	90.3 F+	406 F+	387 F+						
Polychlorinated Biphenyls (PCBs)																					
Aroclor 1260	8082	mg/kg	NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT							
Total PCB Aroclors			1	100											< 0.06	< 0.06	< 0.06	< 0.05	< 0.05		
															ND	ND	ND	ND	ND		

- General Notes:**
- In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective June 20, 2014.
 - Method 1 standards (e.g., S1/GW3) are cited from the Massachusetts Contingency Plan 310 CMR 40.0000 (MCP), revised 2014.
 - UCL = Upper Concentration Limits cited from the MCP 40.0996(6).
 - NT = The sample was not tested for this analyte.
 - ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data reports for the laboratory reporting limit.
 - NS = No standard has been established for this analyte.
 - NA = Not applicable.
 - mg/kg = milligrams per kilogram.
 - Shaded cells contain results which exceed the applicable MCP Method 1 S-1/GW-3 standard.

Validators Qualifiers:
 F+ The result has a high bias due to matrix spike recovery above upper control limits.

Table 1. Chemical Testing Results – Lot 1 Soil
Former Tombarello Site
Lawrence, Massachusetts

Location Name					EX4-06B	EX4-07S	EX4-08S	EX4-09B	EX4-10S	EX4-11S	EX4-12B	EX4-13S	EX4-14S	EX4-15B	EX4-16S	EX4-17S	EX4-18B	EX4-19S	EX4-19S	EX4-20S	
Sample Name					1802441-EX4-06B	1802441-EX4-07S	1802441-EX4-08S	1802441-EX4-09B	1802441-EX4-10S	1802441-EX4-11S	1802441-EX4-12B	1802441-EX4-13S	1802441-EX4-14S	1802441-EX4-15B	1802441-EX4-16S	1802441-EX4-17S	1802441-EX4-18B	1802441-EX4-19S	1802441-EX4-FD-05	1802441-EX4-20S	
Start Depth (ft)					3	1-1.5	1-1.5	3	1-1.5	1-1.5	3	1-1.5	1-1.5	3	1-1.5	1-1.5	3	1-1.5	1-1.5	1-1.5	
Sample Date					6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020
Parent Sample					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1802441-EX4-19S	NA	
Lab Sample ID					20F1133-06	20F1133-07	20F1133-08	20F1133-09	20F1133-10	20F1133-11	20F1133-12	20F1133-13	20F1132-01	20F1132-02	20F1132-03	20F1132-04	20F1132-05	20F1132-06	20F1132-18	20F1132-07	
Analyte	Method	Units	MCP Method 1 S-1/GW-3	MCP UCL																	
Extractable Petroleum Hydrocarbons (EPH)	MADEP EPH	mg/kg			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
C9-C18 Aliphatics			1000	20000																	
C19-C36 Aliphatics			3000	20000																	
C11-C22 Aromatics			1000	10000																	
Fluoranthene			1000	10000																	
Phenanthrene			500	10000																	
Pyrene			1000	10000																	
Total Metals	6010	mg/kg			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Lead			200	6000																	
Polychlorinated Biphenyls (PCBs)	8082	mg/kg																			
Aroclor 1260			NS	NS	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05	< 0.06	0.1	< 0.06	< 0.05	< 0.06	< 0.05	
Total PCB Aroclors			1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND	

- General Notes:**
- In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective June 20, 2014.
 - Method 1 standards (e.g., S1/GW3) are cited from the Massachusetts Contingency Plan 310 CMR 40.0000 (MCP), revised 2014.
 - UCL = Upper Concentration Limits cited from the MCP 40.0996(6).
 - NT = The sample was not tested for this analyte.
 - ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data reports for the laboratory reporting limit.
 - NS = No standard has been established for this analyte.
 - NA = Not applicable.
 - mg/kg = milligrams per kilogram.
 - Shaded cells contain results which exceed the applicable MCP Method 1 S-1/GW-3 standard.

Validators Qualifiers:
 F+ The result has a high bias due to matrix spike recovery above upper control limits.

Table 1. Chemical Testing Results – Lot 1 Soil
Former Tombarello Site
Lawrence, Massachusetts

Location Name					EX4-21B	EX4-22S	EX4-23S	EX4-24B	EX4-25S	EX4-26S	EX4-27B	EX4-28S	EX4-29S	EX4-29S	EX4-30B	EX4-31S	EX4-32S	EX4-33B	
Sample Name					1802441-EX4-21B	1802441-EX4-22S	1802441-EX4-23S	1802441-EX4-24B	1802441-EX4-25S	1802441-EX4-26S	1802441-EX4-27B	1802441-EX4-28S	1802441-EX4-29S	1802441-EX4-FD-06	1802441-EX4-30B	1802441-EX4-31S	1802441-EX4-32S	1802441-EX4-33B	
Start Depth (ft)					3	1-1.5	1-1.5	3	1-1.5	1-1.5	3	1-1.5	1-1.5	1-1.5	3	1-1.5	1-1.5	3	
Sample Date					6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020
Parent Sample					NA	NA	NA	NA	NA	NA	NA	NA	NA	1802441-EX4-29S	NA	NA	NA	NA	NA
Lab Sample ID					20F1132-08	20F1132-09	20F1132-10	20F1132-11	20F1132-12	20F1132-13	20F1132-14	20F1132-15	20F1132-16	20F1132-19	20F1132-17	20G0018-01	20G0018-02	20G0018-03	
Analyte	Method	Units	MCP Method 1 S-1/GW-3	MCP UCL															
Extractable Petroleum Hydrocarbons (EPH)	MADEP EPH	mg/kg			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
C9-C18 Aliphatics			1000	20000															
C19-C36 Aliphatics			3000	20000															
C11-C22 Aromatics			1000	10000															
Fluoranthene			1000	10000															
Phenanthrene			500	10000															
Pyrene			1000	10000															
Total Metals	6010	mg/kg			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Lead			200	6000															
Polychlorinated Biphenyls (PCBs)	8082	mg/kg																	
Aroclor 1260			NS	NS	0.6	0.1	0.2	0.1	0.1	0.1	< 0.06	0.2	0.3	0.4	0.1	< 0.06	0.2	0.2	
Total PCB Aroclors			1	100	0.6	0.1	0.2	0.1	0.1	0.1	ND	0.2	0.3	0.4	0.1	ND	0.2	0.2	

- General Notes:**
- In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective June 20, 2014.
 - Method 1 standards (e.g., S1/GW3) are cited from the Massachusetts Contingency Plan 310 CMR 40.0000 (MCP), revised 2014.
 - UCL = Upper Concentration Limits cited from the MCP 40.0996(6).
 - NT = The sample was not tested for this analyte.
 - ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data reports for the laboratory reporting limit.
 - NS = No standard has been established for this analyte.
 - NA = Not applicable.
 - mg/kg = milligrams per kilogram.
 - Shaded cells contain results which exceed the applicable MCP Method 1 S-1/GW-3 standard.

Validators Qualifiers:
 F+ The result has a high bias due to matrix spike recovery above upper control limits.

Table 2. Chemical Testing Results – Lot 2 Soil
Former Tombarello Site
Lawrence, Massachusetts

Location Name						EX1-01S	EX1-02S	EX1-03S	EX1-03S	EX1-04B	EX1-05S	EX1-06S	EX1-07B	EX1-08S	EX1-09S	EX1-10S	EX1-11S	EX1-12S	EX1-13B	
Sample Name						1802441-EX1-01S	1802441-EX1-02S	1802441-EX1-03S	1802441-FD-01	1802441-EX1-04B	1802441-EX1-05S	1802441-EX1-06S	1802441-EX1-07B	1802441-EX1-08S	1802441-EX1-09S	1802441-EX1-10S	1802441-EX1-11S	1802441-EX1-12S	1802441-EX1-13B	
Start Depth (ft)						0-0.25	0-0.25	0-0.25	0-0.25	2	2	2	6	1.5	1.5	1.5	1.5	1.5	3	
Sample Date						6/23/2020	6/23/2020	6/23/2020	6/23/2020	6/23/2020	6/23/2020	6/23/2020	6/23/2020	6/23/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020
Parent Sample						NA	NA	NA	1802441-EX1-03S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lab Sample ID						20F0915-01	20F0915-02	20F0915-03	20F0915-08	20F0915-04	20F0915-05	20F0915-06	20F0915-07	20F0952-01	20F0952-02	20F0952-03	20F0952-04	20F0952-05	20F0952-06	
Analyte	Method	Units	MCP Method 1 S-2/GW-3	MCP Method 1 S-3/GW-3	MCP UCL															
Polychlorinated Biphenyls (PCBs)	8082	mg/kg																		
Aroclor 1242			NS	NS	NS	< 30.6	< 26.2	< 5.1	< 54.4	< 23.8	< 23.4	< 6.0	< 0.07	2.6	2830	77.6	< 0.06	0.9	0.2	
Aroclor 1248			NS	NS	NS	605 P+	478 P+	< 5.1	< 54.4	273	256	29.1	1.2	< 0.05	< 569	< 5.7	< 0.06	< 0.06	< 0.06	
Aroclor 1254			NS	NS	NS	< 30.6	< 26.2	84.5 G	170 G	< 23.8	< 23.4	< 6.0	< 0.07	< 0.05	< 569	< 5.7	< 0.06	< 0.06	< 0.06	
Aroclor 1260			NS	NS	NS	49.2 P+	47.7 P+	< 5.1	< 54.4	< 23.8	< 23.4	< 6.0	< 0.07	0.2	< 569	< 5.7	< 0.06	0.5	< 0.06	
Total PCB Aroclors			4	4	100	654.2	525.7	84.5	170	273	256	29.1	1.2	2.8	2830	77.6	ND	1.4	0.2	

General Notes:

- In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.
- "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
- MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective June 20, 2014.
- Method 1 standards (e.g., S2/GW3 and S3/GW3) are cited from the Massachusetts Contingency Plan 310 CMR 40.0000 (MCP), revised 2014.
- UCL = Upper Concentration Limits cited from the MCP 40.0996(6).
- NT = The sample was not tested for this analyte.
- ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data reports for the laboratory reporting limit.
- NS = No standard has been established for this analyte.
- NA = Not applicable.
- mg/kg = milligrams per kilogram.

Validators Qualifiers:

- P+ The result is estimated due to the presence of another Aroclor pattern.
- G The result is estimated due to duplicate precision outside control limits.

Table 2. Chemical Testing Results – Lot 2 Soil
Former Tombarello Site
Lawrence, Massachusetts

Location Name						EX1-14B	EX1-15B	EX1-16B	EX2-01S	EX2-02S	EX2-03S	EX2-04S	EX2-05S	EX2-05S	EX2-06B	EX2-07B	EX2-08B	EX2-09B	EX2-10B	
Sample Name						1802441-EX1-14B	1802441-EX1-15B	1802441-EX1-16B	1802441-EX2-01S	1802441-EX2-02S	1802441-EX2-03S	1802441-EX2-04S	1802441-EX2-05S	1802441-FD-02	1802441-EX2-06B	1802441-EX2-07B	1802441-EX2-08B	1802441-EX2-09B	1802441-EX2-10B	
Start Depth (ft)						3	3	3	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3	3	3	
Sample Date						6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/25/2020
Parent Sample						NA	NA	NA	NA	NA	NA	NA	NA	1802441-EX2-05S	NA	NA	NA	NA	NA	
Lab Sample ID						20F0952-07	20F0952-08	20F0952-09	20F0952-10	20F0952-11	20F0952-12	20F0952-13	20F0952-14	20F0952-19	20F0952-15	20F0952-16	20F0952-17	20F0952-18	20F1012-01	
Analyte	Method	Units	MCP Method 1 S-2/GW-3	MCP Method 1 S-3/GW-3	MCP UCL															
Polychlorinated Biphenyls (PCBs)	8082	mg/kg																		
Aroclor 1242			NS	NS	NS	91.2	39.0	11.4	< 57.7	< 51.3	< 5.6	< 55.6	< 3.3	< 3.2	0.1	< 0.06	< 0.07	< 0.07	< 0.07	
Aroclor 1248			NS	NS	NS	< 11.4	< 2.9	< 1.2	< 57.7	< 51.3	< 5.6	< 55.6	< 3.3	< 3.2	< 0.07	< 0.06	< 0.07	< 0.07	< 0.07	
Aroclor 1254			NS	NS	NS	< 11.4	< 2.9	< 1.2	252 P+	< 51.3	21.7 G, P	< 55.6	12.5 G, P	12.2 P+	< 0.07	< 0.06	< 0.07	< 0.07	< 0.07	
Aroclor 1260			NS	NS	NS	< 11.4	3.2	< 1.2	376 P+	125	44.6 P+	102	25.6 P+	17.0 P+	0.3	< 0.06	0.6	0.2	< 0.07	
Total PCB Aroclors			4	4	100	91.2	42.2	11.4	628	125	66.3	102	38.1	29.2	0.4	ND	0.6	0.2	ND	

General Notes:

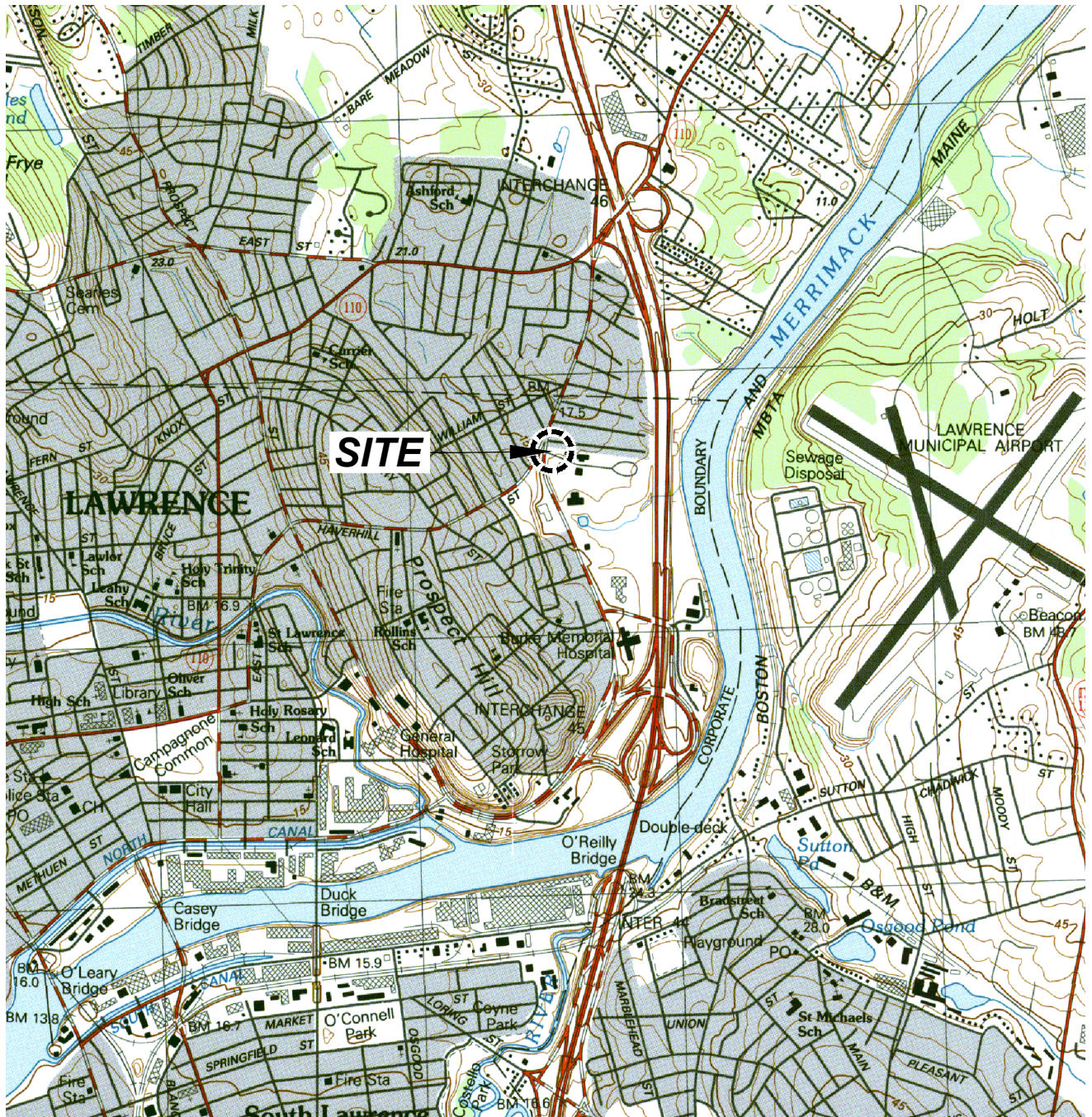
- In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.
- "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
- MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective June 20, 2014.
- Method 1 standards (e.g., S2/GW3 and S3/GW3) are cited from the Massachusetts Contingency Plan 310 CMR 40.0000 (MCP), revised 2014.
- UCL = Upper Concentration Limits cited from the MCP 40.0996(6).
- NT = The sample was not tested for this analyte.
- ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data reports for the laboratory reporting limit.
- NS = No standard has been established for this analyte.
- NA = Not applicable.
- mg/kg = milligrams per kilogram.

Validators Qualifiers:

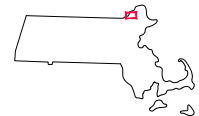
- P+ The result is estimated due to the presence of another Aroclor pattern.
- G The result is estimated due to duplicate precision outside control limits.

MassDEP RTN 3-18126
RAM Completion Report for Targeted Excavations,
Lots 1 and 2
Former Tombarello Site
207 Marston Street, Lawrence, Massachusetts
October 2020

Figures



This Image provided by MassGIS is from U.S.G.S. Topographic 7.5 X 15 Minute Series Lawrence, MA Quadrangle, 1987. Datum is National Geodetic Vertical Datum of 1929 (NGVD29). Contour Interval is 3 Meters.



MASSACHUSETTS QUADRANGLE LOCATION

Release Abatement Measure Completion Report
Former Tombarello Property - Lot 1 and Lot 2
Lawrence, Massachusetts

City of Lawrence
Lawrence, Massachusetts

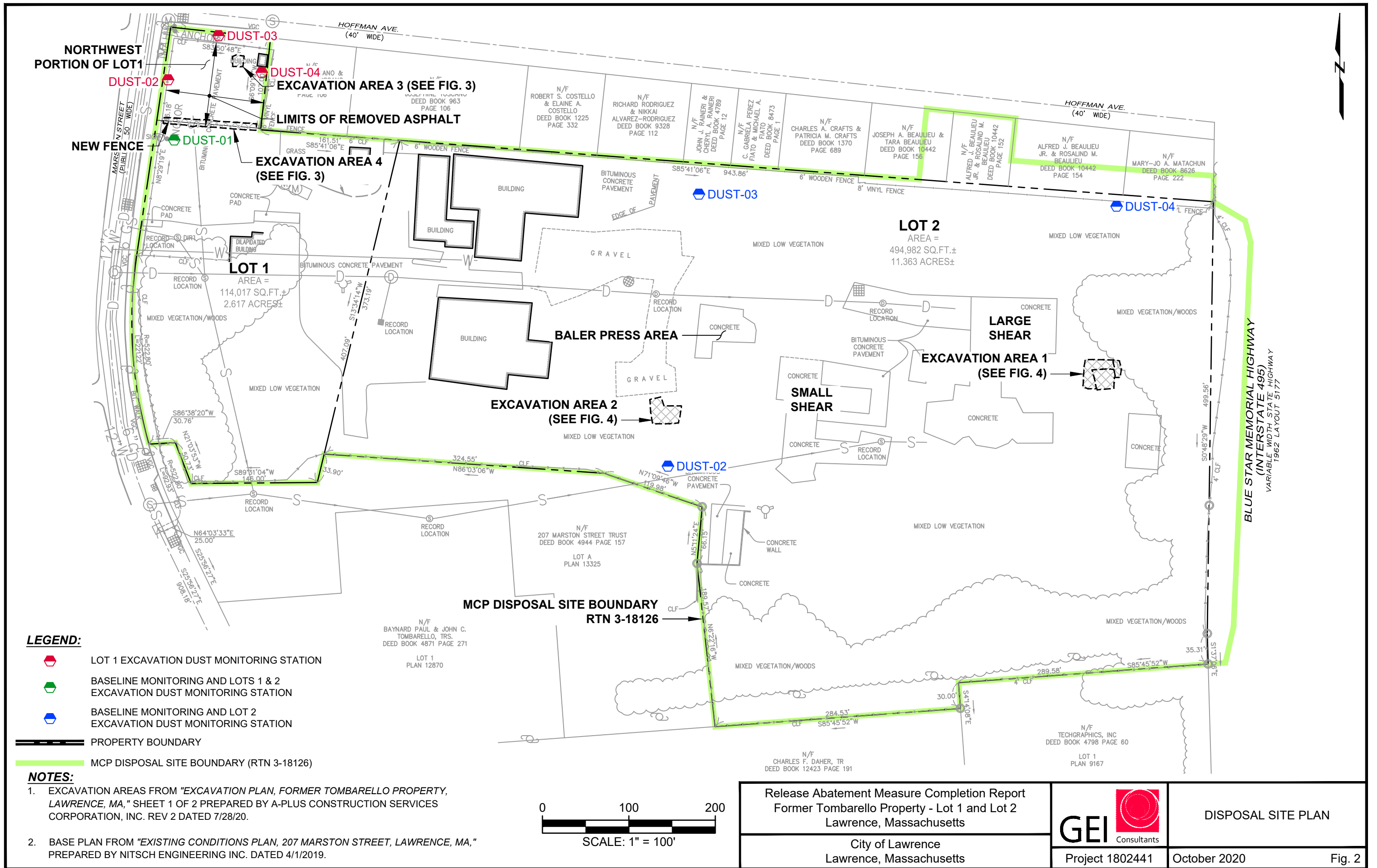


Project 1802441

SITE LOCATION MAP

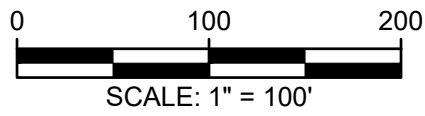
October 2020

Fig. 1

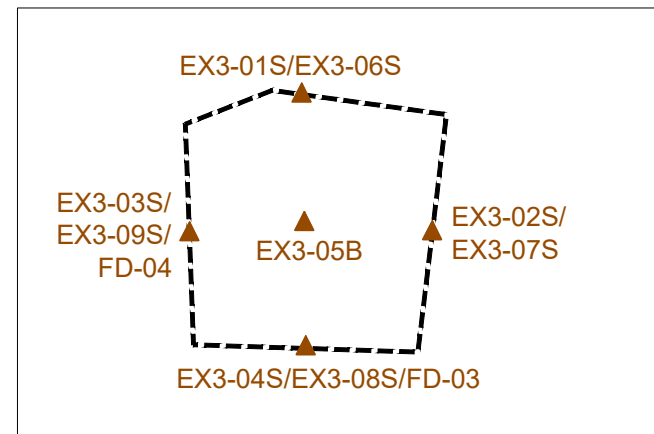


- LEGEND:**
- LOT 1 EXCAVATION DUST MONITORING STATION
 - BASELINE MONITORING AND LOTS 1 & 2 EXCAVATION DUST MONITORING STATION
 - BASELINE MONITORING AND LOT 2 EXCAVATION DUST MONITORING STATION
 - PROPERTY BOUNDARY
 - MCP DISPOSAL SITE BOUNDARY (RTN 3-18126)

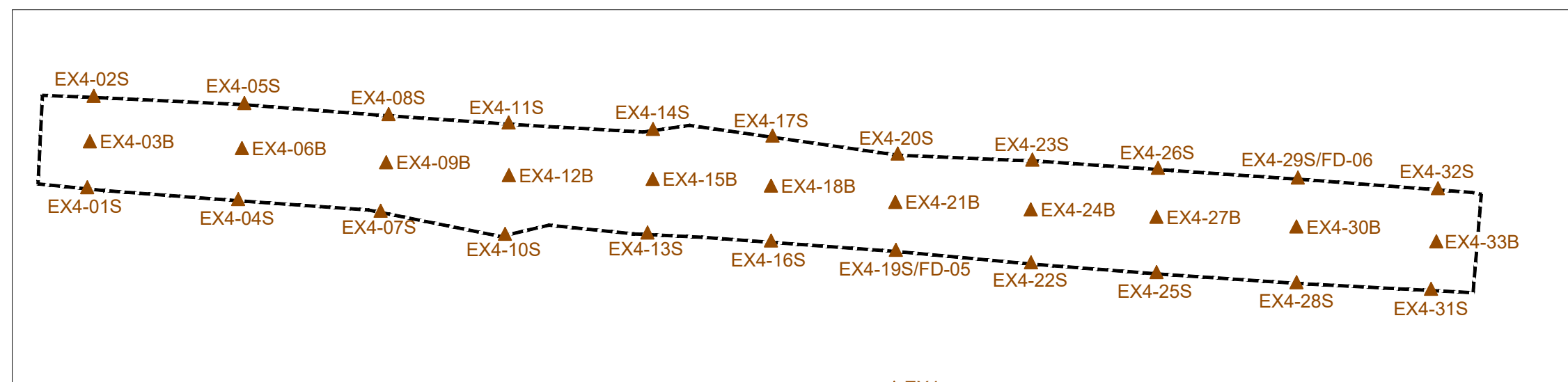
- NOTES:**
1. EXCAVATION AREAS FROM "EXCAVATION PLAN, FORMER TOMBARELLO PROPERTY, LAWRENCE, MA," SHEET 1 OF 2 PREPARED BY A-PLUS CONSTRUCTION SERVICES CORPORATION, INC. REV 2 DATED 7/28/20.
 2. BASE PLAN FROM "EXISTING CONDITIONS PLAN, 207 MARSTON STREET, LAWRENCE, MA," PREPARED BY NITSCH ENGINEERING INC. DATED 4/1/2019.



Release Abatement Measure Completion Report Former Tombarello Property - Lot 1 and Lot 2 Lawrence, Massachusetts City of Lawrence Lawrence, Massachusetts		DISPOSAL SITE PLAN
	Project 1802441	October 2020



EXCAVATION AREA 3



EXCAVATION AREA 4


LEGEND:

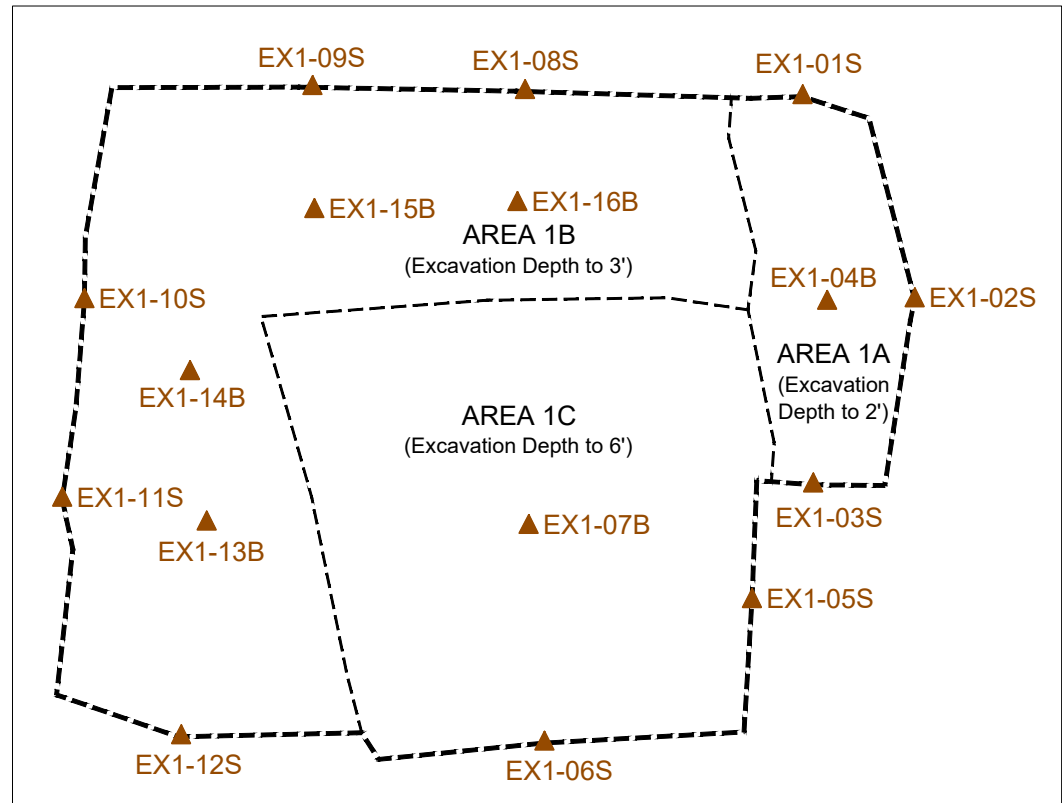
▲ SOIL VERIFICATION SAMPLE

NOTES:

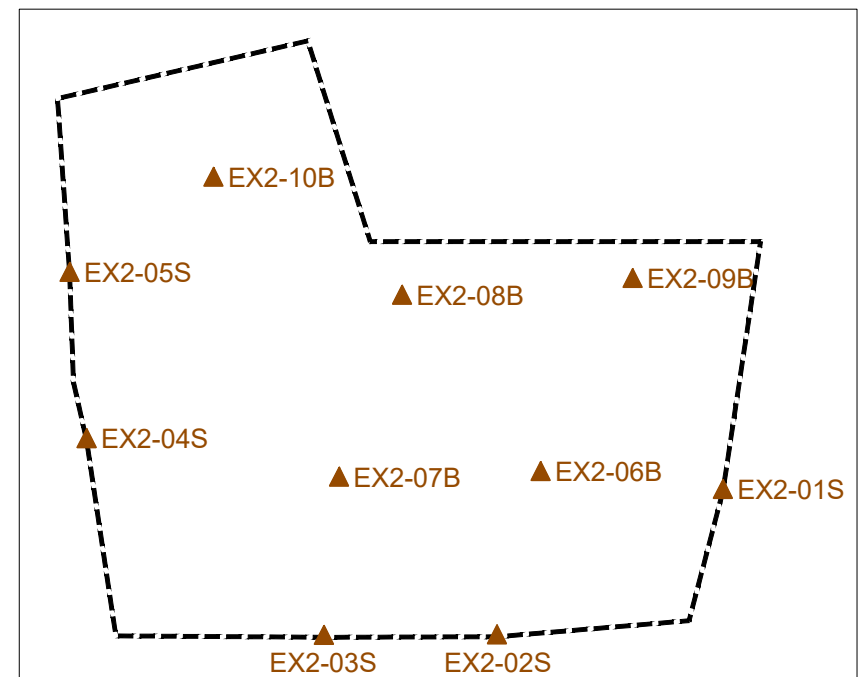
1. EXCAVATION LIMITS FROM "EXCAVATION PLAN, FORMER TOMBARELLO PROPERTY, LAWRENCE, MA," SHEET 2 OF 2 PREPARED BY A-PLUS CONSTRUCTION SERVICES CORPORATION, INC. REV 2 DATED 7/28/20.



Release Abatement Measure Completion Report Former Tombarello Property - Lot 1 and Lot 2 Lawrence, Massachusetts		LOT 1 SOIL VERIFICATION SAMPLE LOCATIONS
City of Lawrence Lawrence, Massachusetts	Project 1802441	October 2020 Fig. 3



EXCAVATION AREA 1A, 1B, 1C



EXCAVATION AREA 2


LEGEND:

▲ SOIL VERIFICATION SAMPLE

NOTES:

- EXCAVATION LIMITS FROM "EXCAVATION PLAN, FORMER TOMBARELLO PROPERTY, LAWRENCE, MA," SHEET 2 OF 2 PREPARED BY A-PLUS CONSTRUCTION SERVICES CORPORATION, INC. REV 2 DATED 7/28/20.



Release Abatement Measure Completion Report Former Tombarello Property - Lot 1 and Lot 2 Lawrence, Massachusetts		LOT 2 SOIL VERIFICATION SAMPLE LOCATIONS
City of Lawrence Lawrence, Massachusetts	Project 1802441	October 2020 Fig. 4

MassDEP RTN 3-18126
RAM Completion Report for Targeted Excavations,
Lots 1 and 2
Former Tombarello Site
207 Marston Street, Lawrence, Massachusetts
October 2020

Appendix A

MassDEP Transmittal Form (BWSC106)



**RELEASE ABATEMENT MEASURE (RAM)
TRANSMITTAL FORM**

Release Tracking Number

3 - 18126

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

A. SITE LOCATION:

- 1. Site Name/Location Aid: TOMBARELLO AND SONS INC HOFMAN AVE
- 2. Street Address: 207 MARSTON ST
- 3. City/Town: LAWRENCE 4. Zip Code: 018410000

- 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.
 - a. Tier I
 - b. Tier ID
 - c. Tier II

B. THIS FORM IS BEING USED TO: (check all that apply)

- 1. List Submittal Date of Initial RAM Plan (if previously submitted): 6/9/2020
(mm/dd/yyyy)

2. Submit an **Initial Release Abatement Measure (RAM) Plan.**

a. Check here if the RAM is being conducted as part of the construction of a permanent structure. If checked, you must specify what type of permanent structure is to be erected in or in the immediate vicinity of the area where the RAM is to be conducted.

- b. Specify type of permanent structure: (check all that apply)
 - i. School
 - ii. Residential
 - iii. Commercial
 - iv. Industrial
 - v. Other

Specify: _____

3. Submit a **Modified RAM Plan** of a previously submitted RAM Plan.

4. Submit a **RAM Status Report.**

5. Submit a **Remedial Monitoring Report.** (This report can only be submitted through eDEP, concurrent with a RAM Status Report.)

- a. Type of Report: (check one)
 - i. Initial Report
 - ii. Interim Report
 - iii. Final Report

b. Frequency of Submittal:

- i. A Remedial Monitoring Report(s) submitted every six months, concurrent with a RAM Status Report.
- ii. A Remedial Monitoring Report(s) submitted annually, concurrent with a RAM Status Report.

c. Number of Remedial Systems and/or Monitoring Programs: _____

A separate BWSC106A, RAM Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

6. Submit a **RAM Completion Statement.**

7. Submit a **Revised RAM Completion Statement.**

8. Provide Additional RTNs:

a. Check here if this RAM Submittal covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Primary Tier Classified RTN do not need to be listed here. This section is intended to allow a RAM to cover more than one unclassified RTN and not show permanent linkage to a Primary Tier Classified RTN.

b. Provide the additional Release Tracking Number(s) covered by this RAM Submittal. - -

9. Include in the **RAM Plan** or **Modified RAM Plan** a **Plan for the Application of Remedial Additives** near a sensitive receptor, pursuant to 310 CMR 40.0046(3).

(All sections of this transmittal form must be filled out unless otherwise noted above)



RELEASE ABATEMENT MEASURE (RAM)
TRANSMITTAL FORM

Release Tracking Number

3 - 18126

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT RAM:

1. Media Impacted and Receptors Affected: (check all that apply)
- a. Paved Surface
 - b. Basement
 - c. School
 - d. Public Water Supply
 - e. Surface Water
 - f. Zone 2
 - g. Private Well
 - h. Residence
 - i. Soil
 - j. Ground Water
 - k. Sediments
 - l. Wetland
 - m. Storm Drain
 - n. Indoor Air
 - o. Air
 - p. Soil Gas
 - q. Sub-Slab Soil Gas
 - r. Critical Exposure Pathway
 - s. NAPL
 - t. Unknown
 - u. Others Specify: _____

2. Sources of the Release or TOR: (check all that apply)
- a. Transformer
 - b. Fuel Tank
 - c. Pipe
 - d. OHM Delivery
 - e. AST
 - f. Drums
 - g. Tanker Truck
 - h. Hose
 - i. Line
 - j. UST Describe: _____
 - k. Vehicle
 - l. Boat/Vessel
 - m. Unknown
 - n. Other: HISTORIC SCRAP METALS RECYCLING

3. Type of Release or TOR: (check all that apply)
- a. Dumping
 - b. Fire
 - c. AST Removal
 - d. Overfill
 - e. Rupture
 - f. Vehicle Accident
 - g. Leak
 - h. Spill
 - i. Test Failure
 - j. TOR Only
 - k. UST Removal Describe: _____
 - l. Unknown
 - m. Other: HISTORIC SCRAP METALS RECYCLING

4. Identify Oils and Hazardous Materials Released: (check all that apply)
- a. Oils
 - b. Chlorinated Solvents
 - c. Heavy Metals
 - d. Others Specify: PCBS

D. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply, for volumes list cumulative amounts)

- 1. Assessment and/or Monitoring Only
- 2. Temporary Covers or Caps
- 3. Deployment of Absorbent or Containment Materials
- 4. Temporary Water Supplies
- 5. Structure Venting System/HVAC Modification System
- 6. Temporary Evacuation or Relocation of Residents
- 7. Product or NAPL Recovery
- 8. Fencing and Sign Posting
- 9. Groundwater Treatment Systems
- 10. Soil Vapor Extraction
- 11. Remedial Additives
- 12. Air Sparging
- 13. Active Exposure Pathway Mitigation System
- 14. Passive Exposure Pathway Mitigation System
- 15. Monitored Natural Attenuation
- 16. In-Situ Chemical Oxidation



**RELEASE ABATEMENT MEASURE (RAM)
TRANSMITTAL FORM**

Release Tracking Number

3 - 18126

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

E. LSP SIGNATURE AND STAMP :

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B of this form indicates that a **Release Abatement Measure Plan** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that a **Release Abatement Measure Status Report** and/or **Remedial Monitoring Report** is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply (ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that a **Release Abatement Measure Completion Statement** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal:

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #:	9719		
2. First Name:	ILEEN S	3. Last Name:	GLADSTONE
4. Telephone:	7817214012	5. Ext.:	6. Email: igladstone@geiconsultan
7. Signature:	_____		
8. Date:	_____	9. LSP Stamp:	<div style="border: 2px solid black; width: 300px; height: 150px;"></div>
	(mm/dd/yyyy)		



**RELEASE ABATEMENT MEASURE (RAM)
TRANSMITTAL FORM**

Release Tracking Number

3 - 18126

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

F. PERSON UNDERTAKING RAM:

1. Check all that apply: a. change in contact name b. change of address c. change in the person undertaking response actions

2. Name of Organization: CITY OF LAWRENCE

3. Contact First Name: PEDRO 4. Last Name: SOTO

5. Street: 12 METHUEN STREET 6. Title: PLANNING DIRECTOR

7. City/Town: LAWRENCE 8. State: MA 9. ZIP Code: 018400000

10. Telephone: 9786203501 11. Ext.: _____ 12. Email: psoto@cityoflawrence.c

G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING RAM:

Check here to change relationship

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter

e. Other RP or PRP Specify: _____

2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

4. Any Other Person Undertaking RAM Specify Relationship: _____

H. REQUIRED ATTACHMENT AND SUBMITTALS:

- 1. Check here if any Remediation Waste, generated as a result of this RAM, will be stored, treated, managed, recycled or reused at the site following submission of the RAM Completion Statement. You must submit a Phase IV Remedy Implementation Plan along with the appropriate transmittal form (BWSC108).
- 2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
- 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the implementation of a Release Abatement Measure.
- 4. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to bwsc.edep@state.ma.us.
- 5. If a RAM Compliance Fee is required for this RAM, check here to certify that a RAM Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.
- 6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



**RELEASE ABATEMENT MEASURE (RAM)
TRANSMITTAL FORM**

Release Tracking Number

3 - 18126

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

I. CERTIFICATION OF PERSON UNDERTAKING RAM:

1. I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: _____
(Signature)

4. For: _____ 5. Date: _____
(Name of person or entity recorded in Section F) (mm/dd/yyyy)

6. Check here if the address of the person providing certification is different from address recorded in Section F.

7. Street: _____
8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____
11. Telephone: _____ 12. Ext.: _____ 13. Email: _____

**YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER
BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT
SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM,
YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE**

Date Stamp (DEP USE ONLY:)



ATTACHMENT TO BWSC106

RTN 3-18126

QUESTION H.2.

The portion of the RAM conducted on Lot 1 was also conducted in accordance with a “Self-Implementing PCB Cleanup and Disposal Plan” dated April 2020 (SIP) prepared to meet the requirements of the *Self-implementing On-site Cleanup and Disposal* provisions (§761.61[a]) of the Toxic Substances Control Act (TSCA; 40 CFR 761) and in accordance with EPA’s SIP approval dated May 13, 2020.

MassDEP RTN 3-18126
RAM Completion Report for Targeted Excavations,
Lots 1 and 2
Former Tombarello Site
207 Marston Street, Lawrence, Massachusetts
October 2020

Appendix B

Lab Data Reports

Lot 1



CERTIFICATE OF ANALYSIS

Leslie Lombardo
 GEI Consultants, Inc.
 400 Unicorn Park Drive
 Woburn, MA 01801

RE: Tombarello Site Investigation (1802441)
ESS Laboratory Work Order Number: 20F1132

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
 Laboratory Director

REVIEWED
 By ESS Laboratory at 5:05 pm, Jul 08, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1132

SAMPLE RECEIPT

The following samples were received on June 30, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
20F1132-01	1802441-EX4-14S	Soil	8082A
20F1132-02	1802441-EX4-15B	Soil	8082A
20F1132-03	1802441-EX4-16S	Soil	8082A
20F1132-04	1802441-EX4-17S	Soil	8082A
20F1132-05	1802441-EX4-18B	Soil	8082A
20F1132-06	1802441-EX4-19S	Soil	8082A
20F1132-07	1802441-EX4-20S	Soil	8082A
20F1132-08	1802441-EX4-21B	Soil	8082A
20F1132-09	1802441-EX4-22S	Soil	8082A
20F1132-10	1802441-EX4-23S	Soil	8082A
20F1132-11	1802441-EX4-24B	Soil	8082A
20F1132-12	1802441-EX4-25S	Soil	8082A
20F1132-13	1802441-EX4-26S	Soil	8082A
20F1132-14	1802441-EX4-27B	Soil	8082A
20F1132-15	1802441-EX4-28S	Soil	8082A
20F1132-16	1802441-EX4-29S	Soil	8082A
20F1132-17	1802441-EX4-30B	Soil	8082A
20F1132-18	1802441-EX4-FD-05	Soil	8082A
20F1132-19	1802441-EX4-FD-06	Soil	8082A



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1132

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1132

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1132

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20F1132-01 through 20F1132-19**

Matrices: Ground Water/Surface Water Soil/Sediment Drinking Water Air Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|---|--|--|---|--|---|
| <input type="checkbox"/> 8260 VOC
CAM II A | <input type="checkbox"/> 7470/7471 Hg
CAM III B | <input type="checkbox"/> MassDEP VPH
(GC/PID/FID)
CAM IV A | <input checked="" type="checkbox"/> 8082 PCB
CAM V A | <input type="checkbox"/> 9014 Total
Cyanide/PAC
CAM VI A | <input type="checkbox"/> 6860 Perchlorate
CAM VIII B |
| <input type="checkbox"/> 8270 SVOC
CAM II B | <input type="checkbox"/> 7010 Metals
CAM III C | <input type="checkbox"/> MassDEP VPH
(GC/MS)
CAM IV C | <input type="checkbox"/> 8081 Pesticides
CAM V B | <input type="checkbox"/> 7196 Hex Cr
CAM VI B | <input type="checkbox"/> MassDEP APH
CAM IX A |
| <input type="checkbox"/> 6010 Metals
CAM III A | <input type="checkbox"/> 6020 Metals
CAM III D | <input type="checkbox"/> MassDEP EPH
CAM IV B | <input type="checkbox"/> 8151 Herbicides
CAM V C | <input type="checkbox"/> Explosives
CAM VIII A | <input type="checkbox"/> TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- | | | |
|---|--|---|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| D | Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| E | VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- | | | |
|---|---|---|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> * |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> * |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> * |

**All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: July 08, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-14S
Date Sampled: 06/30/20 14:30
Percent Solids: 97
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 16:13		DG00206
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 16:13		DG00206
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 16:13		DG00206
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 16:13		DG00206
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 16:13		DG00206
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 16:13		DG00206
Aroclor 1260	ND (0.05)		8082A		1	07/03/20 16:13		DG00206
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 16:13		DG00206
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 16:13		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	79 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	88 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	57 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	78 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-15B
Date Sampled: 06/30/20 14:37
Percent Solids: 88
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 16:33		DG00206
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 16:33		DG00206
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 16:33		DG00206
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 16:33		DG00206
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 16:33		DG00206
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 16:33		DG00206
Aroclor 1260 [2C]	ND (0.05)		8082A		1	07/03/20 16:33		DG00206
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 16:33		DG00206
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 16:33		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	56 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	84 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	48 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	74 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-16S
Date Sampled: 06/30/20 14:45
Percent Solids: 87
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 16:52		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 16:52		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 16:52		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 16:52		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 16:52		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 16:52		DG00206
Aroclor 1260	ND (0.06)		8082A		1	07/03/20 16:52		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 16:52		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 16:52		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	69 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	81 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	49 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	69 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-17S
Date Sampled: 06/30/20 14:51
Percent Solids: 93
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 17:12		DG00206
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 17:12		DG00206
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 17:12		DG00206
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 17:12		DG00206
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 17:12		DG00206
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 17:12		DG00206
Aroclor 1260 [2C]	0.1 (0.05)		8082A		1	07/03/20 17:12		DG00206
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 17:12		DG00206
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 17:12		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	61 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	77 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	49 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	69 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-18B
Date Sampled: 06/30/20 14:59
Percent Solids: 92
Initial Volume: 19
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 17:32		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 17:32		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 17:32		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 17:32		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 17:32		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 17:32		DG00206
Aroclor 1260	ND (0.06)		8082A		1	07/03/20 17:32		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 17:32		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 17:32		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	67 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	81 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	56 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	73 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-19S
Date Sampled: 06/30/20 15:06
Percent Solids: 93
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 17:52		DG00206
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 17:52		DG00206
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 17:52		DG00206
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 17:52		DG00206
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 17:52		DG00206
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 17:52		DG00206
Aroclor 1260 [2C]	ND (0.05)		8082A		1	07/03/20 17:52		DG00206
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 17:52		DG00206
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 17:52		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	73 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	86 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	58 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	73 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-20S
Date Sampled: 06/30/20 15:14
Percent Solids: 94
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 18:11		DG00206
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 18:11		DG00206
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 18:11		DG00206
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 18:11		DG00206
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 18:11		DG00206
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 18:11		DG00206
Aroclor 1260 [2C]	ND (0.05)		8082A		1	07/03/20 18:11		DG00206
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 18:11		DG00206
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 18:11		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	70 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	82 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	56 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	74 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-21B
Date Sampled: 06/30/20 15:20
Percent Solids: 83
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 18:31		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 18:31		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 18:31		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 18:31		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 18:31		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 18:31		DG00206
Aroclor 1260 [2C]	0.6 (0.06)		8082A		1	07/03/20 18:31		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 18:31		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 18:31		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	65 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	89 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	54 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	77 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-22S
Date Sampled: 06/30/20 15:26
Percent Solids: 91
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 18:51		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 18:51		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 18:51		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 18:51		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 18:51		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 18:51		DG00206
Aroclor 1260 [2C]	0.1 (0.06)		8082A		1	07/03/20 18:51		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 18:51		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 18:51		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	66 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	85 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	55 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	76 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-23S
Date Sampled: 06/30/20 15:33
Percent Solids: 91
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 19:11		DG00206
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 19:11		DG00206
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 19:11		DG00206
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 19:11		DG00206
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 19:11		DG00206
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 19:11		DG00206
Aroclor 1260 [2C]	0.2 (0.05)		8082A		1	07/03/20 19:11		DG00206
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 19:11		DG00206
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 19:11		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	70 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	92 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	53 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	74 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-24B
Date Sampled: 06/30/20 15:40
Percent Solids: 90
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 19:31		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 19:31		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 19:31		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 19:31		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 19:31		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 19:31		DG00206
Aroclor 1260 [2C]	0.1 (0.06)		8082A		1	07/03/20 19:31		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 19:31		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 19:31		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	62 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	82 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	48 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	72 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-25S
Date Sampled: 06/30/20 15:45
Percent Solids: 93
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 19:51		DG00206
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 19:51		DG00206
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 19:51		DG00206
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 19:51		DG00206
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 19:51		DG00206
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 19:51		DG00206
Aroclor 1260 [2C]	0.1 (0.05)		8082A		1	07/03/20 19:51		DG00206
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 19:51		DG00206
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 19:51		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	71 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	88 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	56 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	76 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-26S
Date Sampled: 06/30/20 15:51
Percent Solids: 89
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 20:11		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 20:11		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 20:11		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 20:11		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 20:11		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 20:11		DG00206
Aroclor 1260 [2C]	0.1 (0.06)		8082A		1	07/03/20 20:11		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 20:11		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 20:11		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	88 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	114 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	57 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	79 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-27B
Date Sampled: 06/30/20 15:56
Percent Solids: 91
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 20:30		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 20:30		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 20:30		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 20:30		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 20:30		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 20:30		DG00206
Aroclor 1260 [2C]	ND (0.06)		8082A		1	07/03/20 20:30		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 20:30		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 20:30		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	66 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	86 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	51 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	71 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-28S
Date Sampled: 06/30/20 16:12
Percent Solids: 92
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 20:50		DG00206
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 20:50		DG00206
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 20:50		DG00206
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 20:50		DG00206
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 20:50		DG00206
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 20:50		DG00206
Aroclor 1260 [2C]	0.2 (0.05)		8082A		1	07/03/20 20:50		DG00206
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 20:50		DG00206
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 20:50		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	71 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	114 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	54 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	75 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-29S
Date Sampled: 06/30/20 16:08
Percent Solids: 91
Initial Volume: 19.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 21:10		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 21:10		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 21:10		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 21:10		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 21:10		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 21:10		DG00206
Aroclor 1260 [2C]	0.3 (0.06)		8082A		1	07/03/20 21:10		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 21:10		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 21:10		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	73 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	97 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	49 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	71 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-30B
Date Sampled: 06/30/20 16:14
Percent Solids: 87
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 21:30		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 21:30		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 21:30		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 21:30		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 21:30		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 21:30		DG00206
Aroclor 1260 [2C]	0.1 (0.06)		8082A		1	07/03/20 21:30		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 21:30		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 21:30		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	68 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	92 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	52 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	82 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-FD-05
Date Sampled: 06/30/20 12:02
Percent Solids: 93
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 21:50		DG00206
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 21:50		DG00206
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 21:50		DG00206
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 21:50		DG00206
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 21:50		DG00206
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 21:50		DG00206
Aroclor 1260 [2C]	ND (0.06)		8082A		1	07/03/20 21:50		DG00206
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 21:50		DG00206
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 21:50		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	76 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	89 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	59 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	76 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-FD-06
Date Sampled: 06/30/20 12:03
Percent Solids: 91
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1132
ESS Laboratory Sample ID: 20F1132-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 12:41

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 22:09		DG00206
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 22:09		DG00206
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 22:09		DG00206
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 22:09		DG00206
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 22:09		DG00206
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 22:09		DG00206
Aroclor 1260 [2C]	0.4 (0.05)		8082A		1	07/03/20 22:09		DG00206
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 22:09		DG00206
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 22:09		DG00206

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	76 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	96 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	50 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	75 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1132

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DG00206 - 3540C

Blank

Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0189		mg/kg wet	0.02500		76	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0195		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene	0.0148		mg/kg wet	0.02500		59	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0173		mg/kg wet	0.02500		69	30-150			

LCS

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		79	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		80	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		77	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		80	40-140			

Surrogate: Decachlorobiphenyl	0.0157		mg/kg wet	0.02500		63	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0204		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene	0.0156		mg/kg wet	0.02500		63	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0173		mg/kg wet	0.02500		69	30-150			

LCS Dup

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		81	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		82	40-140	3	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		72	40-140	7	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		82	40-140	3	30	

Surrogate: Decachlorobiphenyl	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0166		mg/kg wet	0.02500		66	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0188		mg/kg wet	0.02500		75	30-150			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1132

Notes and Definitions

- U Analyte included in the analysis, but not detected
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1132

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20F1132

Shipped/Delivered Via: ESS Courier

Date Received: 6/30/2020

Project Due Date: 7/8/2020

Days for Project: 5 Day

1. Air bill manifest present? No
Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
Temp: 2.4 Iced with: Ice
5. Was COC signed and dated by client? Yes

6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. Were labs informed about short holds & rushes? Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
ESS Sample IDs: _____
Analysis: _____
TAT: _____

12. Were VOAs received? Yes / No
a. Air bubbles in aqueous VOAs? Yes / No
b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
a. Was there a need to contact the client? Yes / No
Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	60704	Yes	N/A	Yes	4 oz. Jar	NP	
2	60705	Yes	N/A	Yes	4 oz. Jar	NP	
3	60706	Yes	N/A	Yes	4 oz. Jar	NP	
4	60707	Yes	N/A	Yes	4 oz. Jar	NP	
5	60708	Yes	N/A	Yes	4 oz. Jar	NP	
6	60709	Yes	N/A	Yes	4 oz. Jar	NP	
7	60710	Yes	N/A	Yes	4 oz. Jar	NP	
8	60711	Yes	N/A	Yes	4 oz. Jar	NP	
9	60712	Yes	N/A	Yes	4 oz. Jar	NP	
10	60851	Yes	N/A	Yes	8 oz jar	NP	
11	60852	Yes	N/A	Yes	8 oz jar	NP	
12	60853	Yes	N/A	Yes	8 oz jar	NP	
13	60854	Yes	N/A	Yes	8 oz jar	NP	
14	60855	Yes	N/A	Yes	8 oz jar	NP	
15	60856	Yes	N/A	Yes	8 oz jar	NP	
16	60857	Yes	N/A	Yes	8 oz jar	NP	
17	60858	Yes	N/A	Yes	8 oz jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20F1132

Date Received: 6/30/2020

18	60859	Yes	N/A	Yes	8 oz jar	NP
19	60860	Yes	N/A	Yes	8 oz jar	NP

2nd Review

Were all containers scanned into storage/lab?

Are barcode labels on correct containers?

Are all Flashpoint stickers attached/container ID # circled?

Are all Hex Chrome stickers attached?

Are all QC stickers attached?

Are VOA stickers attached if bubbles noted?

Initials

[Handwritten Signature]
 Yes / No
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA

Completed

By:

[Handwritten Signature]

Date & Time:

[Handwritten Signature] 6/30/20 1916

Reviewed

By:

[Handwritten Signature]

Date & Time:

6/30/20 2004

Delivered

By:

[Handwritten Signature]

6/30/20 2004

Chain-of-Custody Record

Laboratory: ESS

Laboratory Job # **20F132**
(Lab use only)



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Former Tombarello Site

Project Location: Lawrence, Massachusetts

Project Number: 1802441

Project Manager: Leslie Lombardo

Send Report and EDD to:
eastregiondata@geiconsultants.com,
llombardo@geiconsultants.com,
bfongmurdock@geiconsultants.com

Preservative

None									
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Analysis

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Sample Handling

Samples Field Filtered
YES NO NA

Sampled Shipped With Ice
 YES NO

Sample Specific Remarks

MCP PRESUMPTIVE CERTAINTY REQUIRED YES NO

If Yes, Are MCP Analytical Methods Required? YES NO NA
Are Drinking Water Samples Submitted? YES NO NA
If Yes, Have Drinking Water Sampling Requirements Been Met? YES NO NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCB													
		Date	Time																	
1	1802441-EX4-14S	6/30/2020	14:30	Soil	1	BFM	X													
2	1802441-EX4-15B	6/30/2020	14:37	Soil	1	BFM	X													
3	1802441-EX4-16S	6/30/2020	14:45	Soil	1	BFM	X													
4	1802441-EX4-17S	6/30/2020	14:51	Soil	1	BFM	X													
5	1802441-EX4-18B	6/30/2020	14:59	Soil	1	BFM	X													
6	1802441-EX4-19S	6/30/2020	15:06	Soil	1	BFM	X													
7	1802441-EX4-20S	6/30/2020	15:14	Soil	1	BFM	X													
8	1802441-EX4-21B	6/30/2020	15:20	Soil	1	BFM	X													
9	1802441-EX4-22S	6/30/2020	15:26	Soil	1	BFM	X													
10	1802441-EX4-23S	6/30/2020	15:33	Soil	1	BFM	X													
11	1802441-EX4-24B	6/30/2020	15:40	Soil	1	BFM	X													
12	1802441-EX4-25S	6/30/2020	15:45	Soil	1	BFM	X													
13	1802441-EX4-26S	6/30/2020	15:51	Soil	1	BFM	X													

MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.

1. Relinquished by: (signature)	Date: 6/30/20	Time: 15:59	Received by: (signature)
2. Relinquished by: (signature)	Date: 6/30/20	Time: 17:45	Received by: (signature)
3. Relinquished by: (signature)	Date:	Time:	Received by: (signature)
4. Relinquished by: (signature)	Date:	Time:	Received by: (signature)

Turnaround Time (Business days):

Normal Other _____
10-Day _____ 7-Day _____
5-Day _____ 3-Day _____

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Manual soxhlet extraction.

Chain-of-Custody Record

Laboratory: ESS

Laboratory Job # **20F1132**
(Lab use only)



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Former Tombarello Site

Project Location: Lawrence, Massachusetts

Project Number: 1802441

Project Manager: Leslie Lombardo

Send Report and EDD to:
eastregiondata@geiconsultants.com,
llombardo@geiconsultants.com,
bfongmurdock@geiconsultants.com

Page 3 of 3

Preservative

None							
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Analysis

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Sample Handling

Samples Field Filtered
YES NO **NA**

Sampled Shipped With Ice
YES NO

Sample Specific Remarks

MCP PRESUMPTIVE CERTAINTY REQUIRED - YES NO

If Yes, Are MCP Analytical Methods Required? YES NO NA

Are Drinking Water Samples Submitted? YES **NO** NA

If Yes, Have Drinking Water Sampling Requirements Been Met? YES NO **NA**

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCB													
		Date	Time																	
14	1802441-EX4-27B	6/30/2020	15:56	Soil	1	BFM	X													
15	1802441-EX4-28S	6/30/2020	16:12	Soil	1	BFM	X													
16	1802441-EX4-29S	6/30/2020	16:08	Soil	1	BFM	X													
17	1802441-EX4-30B	6/30/2020	16:14	Soil	1	BFM	X													
18	1802441-FD-05	6/30/2020	12:02	Soil	1	BFM	X													
19	1802441-FD-06	6/30/2020	12:03	Soil	1	BFM	X													

MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.

1. Relinquished by: (signature)	Date: 6/30/20	Time: 15:57	Received by: (signature)
2. Relinquished by: (signature)	Date: 6/30/20	Time: 17:45	Received by: (signature)
3. Relinquished by: (signature)	Date:	Time:	Received by: (signature)
4. Relinquished by: (signature)	Date:	Time:	Received by: (signature)

Turnaround Time (Business days):

Normal X Other _____

10-Day _____ 7-Day _____

5-Day _____ 3-Day _____

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Manual soxhlet extraction.



CERTIFICATE OF ANALYSIS

Leslie Lombardo
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

RE: Tombarello Site Investigation (1802441)
ESS Laboratory Work Order Number: 20F1133

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 12:02 pm, Jul 16, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1133

SAMPLE RECEIPT

The following samples were received on June 30, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Revision 1 July 15, 2020: This report has been revised to include corrected Client Sample ID for 20F1133-03.

Lab Number	Sample Name	Matrix	Analysis
20F1133-01	1802441-EX4-01S	Soil	8082A
20F1133-02	1802441-EX4-02S	Soil	8082A
20F1133-03	1802441-EX4-03B	Soil	8082A
20F1133-04	1802441-EX4-04S	Soil	8082A
20F1133-05	1802441-EX4-05S	Soil	8082A
20F1133-06	1802441-EX4-06B	Soil	8082A
20F1133-07	1802441-EX4-07S	Soil	8082A
20F1133-08	1802441-EX4-08S	Soil	8082A
20F1133-09	1802441-EX4-09B	Soil	8082A
20F1133-10	1802441-EX4-10S	Soil	8082A
20F1133-11	1802441-EX4-11S	Soil	8082A
20F1133-12	1802441-EX4-12B	Soil	8082A
20F1133-13	1802441-EX4-13S	Soil	8082A



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1133

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1133

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1133

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20F1133-01 through 20F1133-13**

Matrices: Ground Water/Surface Water Soil/Sediment Drinking Water Air Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|---|--|--|---|--|---|
| <input type="checkbox"/> 8260 VOC
CAM II A | <input type="checkbox"/> 7470/7471 Hg
CAM III B | <input type="checkbox"/> MassDEP VPH
(GC/PID/FID)
CAM IV A | <input checked="" type="checkbox"/> 8082 PCB
CAM V A | <input type="checkbox"/> 9014 Total
Cyanide/PAC
CAM VI A | <input type="checkbox"/> 6860 Perchlorate
CAM VIII B |
| <input type="checkbox"/> 8270 SVOC
CAM II B | <input type="checkbox"/> 7010 Metals
CAM III C | <input type="checkbox"/> MassDEP VPH
(GC/MS)
CAM IV C | <input type="checkbox"/> 8081 Pesticides
CAM V B | <input type="checkbox"/> 7196 Hex Cr
CAM VI B | <input type="checkbox"/> MassDEP APH
CAM IX A |
| <input type="checkbox"/> 6010 Metals
CAM III A | <input type="checkbox"/> 6020 Metals
CAM III D | <input type="checkbox"/> MassDEP EPH
CAM IV B | <input type="checkbox"/> 8151 Herbicides
CAM V C | <input type="checkbox"/> Explosives
CAM VIII A | <input type="checkbox"/> TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- A Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? Yes No
- B Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? Yes No
- C Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? Yes No
- D Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes No
- E VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). Yes No
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? Yes No
- F Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? Yes No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)? Yes No *
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.
- H Were all QC performance standards specified in the CAM protocol(s) achieved? Yes No *
- I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? Yes No *

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: July 08, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-01S
Date Sampled: 06/30/20 12:31
Percent Solids: 90
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/06/20 20:13		DG00207
Aroclor 1221	ND (0.06)		8082A		1	07/06/20 20:13		DG00207
Aroclor 1232	ND (0.06)		8082A		1	07/06/20 20:13		DG00207
Aroclor 1242	ND (0.06)		8082A		1	07/06/20 20:13		DG00207
Aroclor 1248	ND (0.06)		8082A		1	07/06/20 20:13		DG00207
Aroclor 1254	ND (0.06)		8082A		1	07/06/20 20:13		DG00207
Aroclor 1260	ND (0.06)		8082A		1	07/06/20 20:13		DG00207
Aroclor 1262	ND (0.06)		8082A		1	07/06/20 20:13		DG00207
Aroclor 1268	ND (0.06)		8082A		1	07/06/20 20:13		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	82 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	82 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	85 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	94 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-02S
Date Sampled: 06/30/20 12:40
Percent Solids: 92
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/06/20 20:32		DG00207
Aroclor 1221	ND (0.06)		8082A		1	07/06/20 20:32		DG00207
Aroclor 1232	ND (0.06)		8082A		1	07/06/20 20:32		DG00207
Aroclor 1242	ND (0.06)		8082A		1	07/06/20 20:32		DG00207
Aroclor 1248	ND (0.06)		8082A		1	07/06/20 20:32		DG00207
Aroclor 1254	ND (0.06)		8082A		1	07/06/20 20:32		DG00207
Aroclor 1260	ND (0.06)		8082A		1	07/06/20 20:32		DG00207
Aroclor 1262	ND (0.06)		8082A		1	07/06/20 20:32		DG00207
Aroclor 1268	ND (0.06)		8082A		1	07/06/20 20:32		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	69 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	77 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	64 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	81 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-03B
Date Sampled: 06/30/20 12:49
Percent Solids: 93
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/06/20 20:52		DG00207
Aroclor 1221	ND (0.06)		8082A		1	07/06/20 20:52		DG00207
Aroclor 1232	ND (0.06)		8082A		1	07/06/20 20:52		DG00207
Aroclor 1242	ND (0.06)		8082A		1	07/06/20 20:52		DG00207
Aroclor 1248	ND (0.06)		8082A		1	07/06/20 20:52		DG00207
Aroclor 1254	ND (0.06)		8082A		1	07/06/20 20:52		DG00207
Aroclor 1260	ND (0.06)		8082A		1	07/06/20 20:52		DG00207
Aroclor 1262	ND (0.06)		8082A		1	07/06/20 20:52		DG00207
Aroclor 1268	ND (0.06)		8082A		1	07/06/20 20:52		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	60 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	60 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	54 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	66 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-04S
Date Sampled: 06/30/20 12:58
Percent Solids: 95
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/06/20 21:12		DG00207
Aroclor 1221	ND (0.05)		8082A		1	07/06/20 21:12		DG00207
Aroclor 1232	ND (0.05)		8082A		1	07/06/20 21:12		DG00207
Aroclor 1242	ND (0.05)		8082A		1	07/06/20 21:12		DG00207
Aroclor 1248	ND (0.05)		8082A		1	07/06/20 21:12		DG00207
Aroclor 1254	ND (0.05)		8082A		1	07/06/20 21:12		DG00207
Aroclor 1260	ND (0.05)		8082A		1	07/06/20 21:12		DG00207
Aroclor 1262	ND (0.05)		8082A		1	07/06/20 21:12		DG00207
Aroclor 1268	ND (0.05)		8082A		1	07/06/20 21:12		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	62 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	64 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	54 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	68 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-05S
Date Sampled: 06/30/20 13:09
Percent Solids: 94
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/06/20 21:31		DG00207
Aroclor 1221	ND (0.05)		8082A		1	07/06/20 21:31		DG00207
Aroclor 1232	ND (0.05)		8082A		1	07/06/20 21:31		DG00207
Aroclor 1242	ND (0.05)		8082A		1	07/06/20 21:31		DG00207
Aroclor 1248	ND (0.05)		8082A		1	07/06/20 21:31		DG00207
Aroclor 1254	ND (0.05)		8082A		1	07/06/20 21:31		DG00207
Aroclor 1260	ND (0.05)		8082A		1	07/06/20 21:31		DG00207
Aroclor 1262	ND (0.05)		8082A		1	07/06/20 21:31		DG00207
Aroclor 1268	ND (0.05)		8082A		1	07/06/20 21:31		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	71 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	70 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	62 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	81 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-06B
Date Sampled: 06/30/20 13:17
Percent Solids: 91
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/06/20 21:51		DG00207
Aroclor 1221	ND (0.06)		8082A		1	07/06/20 21:51		DG00207
Aroclor 1232	ND (0.06)		8082A		1	07/06/20 21:51		DG00207
Aroclor 1242	ND (0.06)		8082A		1	07/06/20 21:51		DG00207
Aroclor 1248	ND (0.06)		8082A		1	07/06/20 21:51		DG00207
Aroclor 1254	ND (0.06)		8082A		1	07/06/20 21:51		DG00207
Aroclor 1260	ND (0.06)		8082A		1	07/06/20 21:51		DG00207
Aroclor 1262	ND (0.06)		8082A		1	07/06/20 21:51		DG00207
Aroclor 1268	ND (0.06)		8082A		1	07/06/20 21:51		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	71 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	70 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	86 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-07S
Date Sampled: 06/30/20 13:28
Percent Solids: 95
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/06/20 22:11		DG00207
Aroclor 1221	ND (0.05)		8082A		1	07/06/20 22:11		DG00207
Aroclor 1232	ND (0.05)		8082A		1	07/06/20 22:11		DG00207
Aroclor 1242	ND (0.05)		8082A		1	07/06/20 22:11		DG00207
Aroclor 1248	ND (0.05)		8082A		1	07/06/20 22:11		DG00207
Aroclor 1254	ND (0.05)		8082A		1	07/06/20 22:11		DG00207
Aroclor 1260 [2C]	ND (0.05)		8082A		1	07/06/20 22:11		DG00207
Aroclor 1262	ND (0.05)		8082A		1	07/06/20 22:11		DG00207
Aroclor 1268	ND (0.05)		8082A		1	07/06/20 22:11		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	79 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	80 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	68 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	87 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-08S
Date Sampled: 06/30/20 13:39
Percent Solids: 96
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/06/20 22:30		DG00207
Aroclor 1221	ND (0.05)		8082A		1	07/06/20 22:30		DG00207
Aroclor 1232	ND (0.05)		8082A		1	07/06/20 22:30		DG00207
Aroclor 1242	ND (0.05)		8082A		1	07/06/20 22:30		DG00207
Aroclor 1248	ND (0.05)		8082A		1	07/06/20 22:30		DG00207
Aroclor 1254	ND (0.05)		8082A		1	07/06/20 22:30		DG00207
Aroclor 1260	ND (0.05)		8082A		1	07/06/20 22:30		DG00207
Aroclor 1262	ND (0.05)		8082A		1	07/06/20 22:30		DG00207
Aroclor 1268	ND (0.05)		8082A		1	07/06/20 22:30		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	86 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	86 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	83 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-09B
Date Sampled: 06/30/20 13:47
Percent Solids: 94
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/06/20 22:50		DG00207
Aroclor 1221	ND (0.05)		8082A		1	07/06/20 22:50		DG00207
Aroclor 1232	ND (0.05)		8082A		1	07/06/20 22:50		DG00207
Aroclor 1242	ND (0.05)		8082A		1	07/06/20 22:50		DG00207
Aroclor 1248	ND (0.05)		8082A		1	07/06/20 22:50		DG00207
Aroclor 1254	ND (0.05)		8082A		1	07/06/20 22:50		DG00207
Aroclor 1260	ND (0.05)		8082A		1	07/06/20 22:50		DG00207
Aroclor 1262	ND (0.05)		8082A		1	07/06/20 22:50		DG00207
Aroclor 1268	ND (0.05)		8082A		1	07/06/20 22:50		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	79 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	77 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	98 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-10S
Date Sampled: 06/30/20 13:55
Percent Solids: 90
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/7/20 10:04

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.03)		8082A		1	07/08/20 11:32		DG00602
Aroclor 1221	ND (0.03)		8082A		1	07/08/20 11:32		DG00602
Aroclor 1232	ND (0.03)		8082A		1	07/08/20 11:32		DG00602
Aroclor 1242	ND (0.03)		8082A		1	07/08/20 11:32		DG00602
Aroclor 1248	ND (0.03)		8082A		1	07/08/20 11:32		DG00602
Aroclor 1254	ND (0.03)		8082A		1	07/08/20 11:32		DG00602
Aroclor 1260	ND (0.03)		8082A		1	07/08/20 11:32		DG00602
Aroclor 1262	ND (0.03)		8082A		1	07/08/20 11:32		DG00602
Aroclor 1268	ND (0.03)		8082A		1	07/08/20 11:32		DG00602

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	53 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	50 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	49 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	54 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-11S
Date Sampled: 06/30/20 14:05
Percent Solids: 93
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/06/20 23:29		DG00207
Aroclor 1221	ND (0.05)		8082A		1	07/06/20 23:29		DG00207
Aroclor 1232	ND (0.05)		8082A		1	07/06/20 23:29		DG00207
Aroclor 1242	ND (0.05)		8082A		1	07/06/20 23:29		DG00207
Aroclor 1248	ND (0.05)		8082A		1	07/06/20 23:29		DG00207
Aroclor 1254	ND (0.05)		8082A		1	07/06/20 23:29		DG00207
Aroclor 1260	ND (0.05)		8082A		1	07/06/20 23:29		DG00207
Aroclor 1262	ND (0.05)		8082A		1	07/06/20 23:29		DG00207
Aroclor 1268	ND (0.05)		8082A		1	07/06/20 23:29		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	71 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	73 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	90 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-12B
Date Sampled: 06/30/20 14:13
Percent Solids: 92
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:02

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/06/20 23:49		DG00207
Aroclor 1221	ND (0.06)		8082A		1	07/06/20 23:49		DG00207
Aroclor 1232	ND (0.06)		8082A		1	07/06/20 23:49		DG00207
Aroclor 1242	ND (0.06)		8082A		1	07/06/20 23:49		DG00207
Aroclor 1248	ND (0.06)		8082A		1	07/06/20 23:49		DG00207
Aroclor 1254	ND (0.06)		8082A		1	07/06/20 23:49		DG00207
Aroclor 1260	ND (0.06)		8082A		1	07/06/20 23:49		DG00207
Aroclor 1262	ND (0.06)		8082A		1	07/06/20 23:49		DG00207
Aroclor 1268	ND (0.06)		8082A		1	07/06/20 23:49		DG00207

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>81 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>80 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>68 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>86 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-13S
Date Sampled: 06/30/20 14:21
Percent Solids: 85
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1133
ESS Laboratory Sample ID: 20F1133-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:11

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 19:04	D0G0051	DG00208
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 19:04	D0G0051	DG00208
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 19:04	D0G0051	DG00208
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 19:04	D0G0051	DG00208
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 19:04	D0G0051	DG00208
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 19:04	D0G0051	DG00208
Aroclor 1260	ND (0.06)		8082A		1	07/03/20 19:04	D0G0051	DG00208
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 19:04	D0G0051	DG00208
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 19:04	D0G0051	DG00208

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	56 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	56 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	55 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	63 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1133

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DG00207 - 3540C

Blank

Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0214		mg/kg wet	0.02500		86	30-150			

LCS

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		90	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		90	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		95	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		91	40-140			

Surrogate: Decachlorobiphenyl	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0201		mg/kg wet	0.02500		80	30-150			

LCS Dup

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		90	40-140	0.2	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		88	40-140	2	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		96	40-140	1	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		92	40-140	0.9	30	

Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene	0.0202		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0201		mg/kg wet	0.02500		80	30-150			

Batch DG00208 - 3540C



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1133

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DG00208 - 3540C

Blank

Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0222		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene	0.0230		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0239		mg/kg wet	0.02500		95	30-150			

LCS

Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		98	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		101	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		99	40-140			

Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0226		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		89	30-150			

LCS Dup

Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		96	40-140	1	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140	1	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		101	40-140	0.6	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140	0.4	30	

Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0215		mg/kg wet	0.02500		86	30-150			

Batch DG00602 - 3540C



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1133

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DG00602 - 3540C

Blank

Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0211		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene	0.0209		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0221		mg/kg wet	0.02500		88	30-150			

LCS

Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		101	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140			

Surrogate: Decachlorobiphenyl	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0216		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0226		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0226		mg/kg wet	0.02500		90	30-150			

LCS Dup

Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		97	40-140	0.2	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140	0.2	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		102	40-140	0.8	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140	1	30	

Surrogate: Decachlorobiphenyl	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0219		mg/kg wet	0.02500		87	30-150			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1133

Notes and Definitions

- U Analyte included in the analysis, but not detected
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1133

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB
 Shipped/Delivered Via: ESS Courier

ESS Project ID: 20F1133
 Date Received: 6/30/2020
 Project Due Date: 7/8/2020
 Days for Project: 5 Day

1. Air bill manifest present? No
 Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
 Temp: 2.4 Iced with: Ice
5. Was COC signed and dated by client? Yes

6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. Were labs informed about short holds & rushes? Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: _____
 Analysis: _____
 TAT: _____

12. Were VOAs received? Yes / No
 a. Air bubbles in aqueous VOAs? Yes / No
 b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
 b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	60723	Yes	N/A	Yes	4 oz. Jar	NP	
2	60724	Yes	N/A	Yes	4 oz. Jar	NP	
3	60725	Yes	N/A	Yes	4 oz. Jar	NP	
4	60726	Yes	N/A	Yes	4 oz. Jar	NP	
5	60727	Yes	N/A	Yes	4 oz. Jar	NP	
6	60728	Yes	N/A	Yes	4 oz. Jar	NP	
7	60729	Yes	N/A	Yes	4 oz. Jar	NP	
8	60730	Yes	N/A	Yes	4 oz. Jar	NP	
9	60731	Yes	N/A	Yes	4 oz. Jar	NP	
10	60732	Yes	N/A	Yes	4 oz. Jar	NP	
11	60733	Yes	N/A	Yes	4 oz. Jar	NP	
12	60734	Yes	N/A	Yes	4 oz. Jar	NP	
13	60735	Yes	N/A	Yes	4 oz. Jar	NP	

2nd Review

- Were all containers scanned into storage/lab?
 Are barcode labels on correct containers?
 Are all Flashpoint stickers attached/container ID # circled?

Initials [Signature]
 Yes / No
 Yes / No / NA

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20F1133

Date Received: 6/30/2020

Are all Hex Chrome stickers attached?

Yes / No / NA

Are all QC stickers attached?

Yes / No / NA

Are VOA stickers attached if bubbles noted?

Yes / No / NA

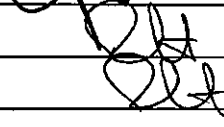
Completed
By:



Date & Time:

6/30/20 1913

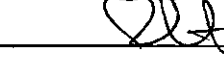
Reviewed
By:



Date & Time:

6/30/20 2002

Delivered
By:



Date & Time:

6/30/20 2002

Chain-of-Custody Record

Laboratory: **ESS**

Laboratory Job # **20F132**
(Lab use only)



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Former Tombarello Site
Project Location: Lawrence, Massachusetts

Project Number: 1802441
Project Manager: Leslie Lombardo

Send Report and EDD to:
eastregiondata@geiconsultants.com,
llombardo@geiconsultants.com,
bfongmurdock@geiconsultants.com

Page 1 of 3

MCP PRESUMPTIVE CERTAINTY REQUIRED YES NO

If Yes, Are MCP Analytical Methods Required? YES NO NA

Are Drinking Water Samples Submitted? YES NO NA

If Yes, Have Drinking Water Sampling Requirements Been Met? YES NO NA

Preservative

None							
------	--	--	--	--	--	--	--

Analysis

--	--	--	--	--	--	--	--

Sample Handling

Samples Field Filtered
YES NO NA

Sampled Shipped With Ice
YES NO

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCB	Analysis									
		Date	Time														
1	1802441-EX4-01S	6/30/2020	12:31	Soil	1	BFM	X										
2	1802441-EX4-02S	6/30/2020	12:40	Soil	1	BFM	X										
3	1802441-EX4-03B	6/30/2020	12:49	Soil	1	BFM	X										
4	1802441-EX4-04S	6/30/2020	12:58	Soil	1	BFM	X										
5	1802441-EX4-05S	6/30/2020	13:09	Soil	1	BFM	X										
6	1802441-EX4-06B	6/30/2020	13:17	Soil	1	BFM	X										
7	1802441-EX4-07S	6/30/2020	13:28	Soil	1	BFM	X										
8	1802441-EX4-08S	6/30/2020	13:39	Soil	1	BFM	X										
9	1802441-EX4-09B	6/30/2020	13:47	Soil	1	BFM	X										
10	1802441-EX4-10S	6/30/2020	13:55	Soil	1	BFM	X										
11	1802441-EX4-11S	6/30/2020	14:05	Soil	1	BFM	X										
12	1802441-EX4-12B	6/30/2020	14:13	Soil	1	BFM	X										
13	1802441-EX4-13S	6/30/2020	14:21	Soil	1	BFM	X										

MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Relinquished by sampler: (signature)	Date: 6/30/20	Time: 15:59	Received by: (signature)
Relinquished by: (signature)	Date: 6/30/20	Time: 17:45	Received by: (signature)
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
Relinquished by: (signature)	Date:	Time:	Received by: (signature)

Turnaround Time (Business days):

Normal X Other _____

10-Day _____ 7-Day _____

5-Day _____ 3-Day _____

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Manual soxhlet extraction.



CERTIFICATE OF ANALYSIS

Leslie Lombardo
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

RE: Tombarello Site Investigation (1802441)
ESS Laboratory Work Order Number: 20F1134

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 1:57 pm, Aug 05, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

SAMPLE RECEIPT

The following samples were received on June 30, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Question I: All samples for metals were analyzed for a subset of the required MCP list per the client's request.

Revision 1 August 5, 2020: This report has been revised to include corrected Sample ID for 20F1134-09 per client request.

Lab Number	Sample Name	Matrix	Analysis
20F1134-01	1802441-EX3-01S	Soil	EPH8270, MADEP-EPH
20F1134-02	1802441-EX3-02S	Soil	EPH8270, MADEP-EPH
20F1134-03	1802441-EX3-03S	Soil	EPH8270, MADEP-EPH
20F1134-04	1802441-EX3-04S	Soil	EPH8270, MADEP-EPH
20F1134-05	1802441-EX3-05B	Soil	EPH8270, MADEP-EPH
20F1134-06	1802441-EX3-06S	Soil	6010C
20F1134-07	1802441-EX3-07S	Soil	6010C
20F1134-08	1802441-EX3-08S	Soil	6010C
20F1134-09	1802441-EX3-09S	Soil	6010C
20F1134-10	1802441-FD-03	Soil	EPH8270, MADEP-EPH
20F1134-11	1802441-FD-04	Soil	6010C



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

PROJECT NARRATIVE

MADEP-EPH Extractable Petroleum Hydrocarbons

D0F0602-CCV4 Continuing Calibration %Diff/Drift is below control limit (CD-).
Benzo(g,h,i)perylene (33% @ 20%), Dibenzo(a,h)Anthracene (32% @ 20%), Indeno(1,2,3-cd)Pyrene (30% @ 20%)

Total Metals

DG00138-MS1 Matrix Spike recovery is above upper control limit (M+).
Lead (220% @ 75-125%)

DG00138-MS2 Due to high target values, matrix spike analyte(s) is masked (MT).
Lead (323% @ 75-125%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20F1134-01 through 20F1134-11**

Matrices: Ground Water/Surface Water Soil/Sediment Drinking Water Air Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|--|--|--|---|--|---|
| <input type="checkbox"/> 8260 VOC
CAM II A | <input type="checkbox"/> 7470/7471 Hg
CAM III B | <input type="checkbox"/> MassDEP VPH
(GC/PID/FID)
CAM IV A | <input type="checkbox"/> 8082 PCB
CAM V A | <input type="checkbox"/> 9014 Total
Cyanide/PAC
CAM VI A | <input type="checkbox"/> 6860 Perchlorate
CAM VIII B |
| <input type="checkbox"/> 8270 SVOC
CAM II B | <input type="checkbox"/> 7010 Metals
CAM III C | <input type="checkbox"/> MassDEP VPH
(GC/MS)
CAM IV C | <input type="checkbox"/> 8081 Pesticides
CAM V B | <input type="checkbox"/> 7196 Hex Cr
CAM VI B | <input type="checkbox"/> MassDEP APH
CAM IX A |
| <input checked="" type="checkbox"/> 6010 Metals
CAM III A | <input type="checkbox"/> 6020 Metals
CAM III D | <input checked="" type="checkbox"/> MassDEP EPH
CAM IV B | <input type="checkbox"/> 8151 Herbicides
CAM V C | <input type="checkbox"/> Explosives
CAM VIII A | <input type="checkbox"/> TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- | | | |
|---|--|---|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| D | Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| E | VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Yes <input type="checkbox"/> No <input type="checkbox"/> |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- | | | |
|---|---|---|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> * |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> * |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> * |

*All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: July 08, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX3-01S
Date Sampled: 06/30/20 10:03
Percent Solids: 73
Initial Volume: 24.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 6/30/20 21:30

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (21.3)		MADEP-EPH		1	MJV	07/03/20 19:47	D0G0046	DF03001
C19-C36 Aliphatics1	21.9 (21.3)		MADEP-EPH		1	MJV	07/03/20 19:47	D0G0046	DF03001
C11-C22 Unadjusted Aromatics1	29.1 (21.3)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
C11-C22 Aromatics1,2	26.5 (21.3)		EPH8270			IBM	07/02/20 17:52		[CALC]
2-Methylnaphthalene	ND (0.28)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Acenaphthene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Naphthalene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Phenanthrene	0.67 (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Acenaphthylene	ND (0.28)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Anthracene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Benzo(a)anthracene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Benzo(a)pyrene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Benzo(b)fluoranthene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Benzo(g,h,i)perylene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Benzo(k)fluoranthene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Chrysene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Dibenzo(a,h)Anthracene	ND (0.28)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Fluoranthene	1.03 (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Fluorene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Indeno(1,2,3-cd)Pyrene	ND (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001
Pyrene	0.91 (0.57)		EPH8270		1	IBM	07/02/20 17:52	D0G0023	DF03001

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	55 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	93 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	91 %		40-140
<i>Surrogate: O-Terphenyl</i>	62 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX3-02S
Date Sampled: 06/30/20 10:11
Percent Solids: 67
Initial Volume: 24.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-02
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 6/30/20 21:30

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (22.7)		MADEP-EPH		1	MJV	07/03/20 23:50	D0G0046	DF03001
C19-C36 Aliphatics1	ND (22.7)		MADEP-EPH		1	MJV	07/03/20 23:50	D0G0046	DF03001
C11-C22 Unadjusted Aromatics1	ND (22.7)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
C11-C22 Aromatics1,2	ND (22.7)		EPH8270			IBM	07/02/20 18:29		[CALC]
2-Methylnaphthalene	ND (0.30)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Acenaphthene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Naphthalene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Phenanthrene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Acenaphthylene	ND (0.30)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Anthracene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Benzo(a)anthracene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Benzo(a)pyrene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Benzo(b)fluoranthene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Benzo(g,h,i)perylene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Benzo(k)fluoranthene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Chrysene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Dibenzo(a,h)Anthracene	ND (0.30)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Fluoranthene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Fluorene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Indeno(1,2,3-cd)Pyrene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001
Pyrene	ND (0.61)		EPH8270		1	IBM	07/02/20 18:29	D0G0023	DF03001

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	53 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	99 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	99 %		40-140
<i>Surrogate: O-Terphenyl</i>	59 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX3-03S
Date Sampled: 06/30/20 10:20
Percent Solids: 61
Initial Volume: 24.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-03
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 6/30/20 21:30

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (25.5)		MADEP-EPH		1	MJV	07/04/20 0:39	D0G0046	DF03001
C19-C36 Aliphatics1	ND (25.5)		MADEP-EPH		1	MJV	07/04/20 0:39	D0G0046	DF03001
C11-C22 Unadjusted Aromatics1	ND (25.5)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
C11-C22 Aromatics1,2	ND (25.5)		EPH8270			IBM	07/02/20 19:05		[CALC]
2-Methylnaphthalene	ND (0.34)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Acenaphthene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Naphthalene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Phenanthrene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Acenaphthylene	ND (0.34)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Anthracene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Benzo(a)anthracene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Benzo(a)pyrene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Benzo(b)fluoranthene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Benzo(g,h,i)perylene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Benzo(k)fluoranthene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Chrysene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Dibenzo(a,h)Anthracene	ND (0.34)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Fluoranthene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Fluorene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Indeno(1,2,3-cd)Pyrene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001
Pyrene	ND (0.68)		EPH8270		1	IBM	07/02/20 19:05	D0G0023	DF03001

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	56 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	109 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	110 %		40-140
<i>Surrogate: O-Terphenyl</i>	70 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX3-04S
Date Sampled: 06/30/20 10:22
Percent Solids: 74
Initial Volume: 24.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-04
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 6/30/20 21:30

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (20.7)		MADEP-EPH		1	MJV	07/04/20 1:27	D0G0046	DF03001
C19-C36 Aliphatics1	ND (20.7)		MADEP-EPH		1	MJV	07/04/20 1:27	D0G0046	DF03001
C11-C22 Unadjusted Aromatics1	ND (20.7)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
C11-C22 Aromatics1,2	ND (20.7)		EPH8270			IBM	07/02/20 19:42		[CALC]
2-Methylnaphthalene	ND (0.28)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Acenaphthene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Naphthalene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Phenanthrene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Acenaphthylene	ND (0.28)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Anthracene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Benzo(a)anthracene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Benzo(a)pyrene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Benzo(b)fluoranthene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Benzo(g,h,i)perylene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Benzo(k)fluoranthene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Chrysene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Dibenzo(a,h)Anthracene	ND (0.28)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Fluoranthene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Fluorene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Indeno(1,2,3-cd)Pyrene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001
Pyrene	ND (0.55)		EPH8270		1	IBM	07/02/20 19:42	D0G0023	DF03001

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	48 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	122 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	120 %		40-140
<i>Surrogate: O-Terphenyl</i>	66 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX3-05B
Date Sampled: 06/30/20 10:32
Percent Solids: 77
Initial Volume: 24.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 6/30/20 21:30

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (19.7)		MADEP-EPH		1	MJV	07/04/20 2:16	D0G0046	DF03001
C19-C36 Aliphatics1	ND (19.7)		MADEP-EPH		1	MJV	07/04/20 2:16	D0G0046	DF03001
C11-C22 Unadjusted Aromatics1	ND (19.7)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
C11-C22 Aromatics1,2	ND (19.7)		EPH8270			IBM	07/02/20 20:18		[CALC]
2-Methylnaphthalene	ND (0.26)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Acenaphthene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Naphthalene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Phenanthrene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Acenaphthylene	ND (0.26)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Anthracene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Benzo(a)anthracene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Benzo(a)pyrene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Benzo(b)fluoranthene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Benzo(g,h,i)perylene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Benzo(k)fluoranthene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Chrysene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Dibenzo(a,h)Anthracene	ND (0.26)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Fluoranthene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Fluorene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Indeno(1,2,3-cd)Pyrene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001
Pyrene	ND (0.53)		EPH8270		1	IBM	07/02/20 20:18	D0G0023	DF03001

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	61 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	109 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	110 %		40-140
<i>Surrogate: O-Terphenyl</i>	76 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX3-06S
Date Sampled: 06/30/20 10:40
Percent Solids: 95

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-06
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	11.5 (4.56)		6010C		1	KJK	07/03/20 3:00	2.31	100	DG00138



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX3-07S
Date Sampled: 06/30/20 10:49
Percent Solids: 94

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-07
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	76.4 (4.42)		6010C		1	KJK	07/03/20 3:37	2.42	100	DG00138



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX3-08S
Date Sampled: 06/30/20 10:58
Percent Solids: 90

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-08
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	90.3 (4.86)		6010C		1	KJK	07/03/20 3:41	2.3	100	DG00138



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX3-09S
Date Sampled: 06/30/20 11:07
Percent Solids: 90

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-09
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	406 (4.42)		6010C		1	KJK	07/03/20 3:46	2.52	100	DG00138



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
 Client Project ID: Tombarello Site Investigation
 Client Sample ID: 1802441-FD-03
 Date Sampled: 06/30/20 12:00
 Percent Solids: 73
 Initial Volume: 25
 Final Volume: 1
 Extraction Method: 3546

ESS Laboratory Work Order: 20F1134
 ESS Laboratory Sample ID: 20F1134-10
 Sample Matrix: Soil
 Units: mg/kg dry

Prepared: 6/30/20 21:30

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (20.4)		MADEP-EPH		1	MJV	07/04/20 3:05	D0G0046	DF03001
C19-C36 Aliphatics1	ND (20.4)		MADEP-EPH		1	MJV	07/04/20 3:05	D0G0046	DF03001
C11-C22 Unadjusted Aromatics1	ND (20.4)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
C11-C22 Aromatics1,2	ND (20.4)		EPH8270			IBM	07/02/20 20:54		[CALC]
2-Methylnaphthalene	ND (0.27)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Acenaphthene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Naphthalene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Phenanthrene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Acenaphthylene	ND (0.27)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Anthracene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Benzo(a)anthracene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Benzo(a)pyrene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Benzo(b)fluoranthene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Benzo(g,h,i)perylene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Benzo(k)fluoranthene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Chrysene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Dibenzo(a,h)Anthracene	ND (0.27)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Fluoranthene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Fluorene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Indeno(1,2,3-cd)Pyrene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001
Pyrene	ND (0.54)		EPH8270		1	IBM	07/02/20 20:54	D0G0023	DF03001

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	60 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	111 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	112 %		40-140
<i>Surrogate: O-Terphenyl</i>	71 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-FD-04
Date Sampled: 06/30/20 12:01
Percent Solids: 90

ESS Laboratory Work Order: 20F1134
ESS Laboratory Sample ID: 20F1134-11
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	387 (4.22)		6010C		1	KJK	07/03/20 4:09	2.62	100	DG00138



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DG00138 - 3050B

Blank

Lead	ND	5.00	mg/kg wet							
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LCS

Lead	147	15.2	mg/kg wet	144.0		102	80-120			
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LCS Dup

Lead	141	12.5	mg/kg wet	144.0		98	80-120	4	20	
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Duplicate Source: 20F1134-06

Lead	14.6	4.46	mg/kg dry		11.5			24	35	
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Duplicate Source: 20F1134-09

Lead	332	4.55	mg/kg dry		406			20	35	
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Matrix Spike Source: 20F1134-06

Lead	62.6	4.64	mg/kg dry	23.19	11.5	220	75-125			M+
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Matrix Spike Source: 20F1134-09

Lead	478	4.46	mg/kg dry	22.30	406	323	75-125			MT
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Reference

Lead	493	21.7	mg/kg wet	500.0		99	70-130			
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Reference

Lead	3840	20.0	mg/kg wet	4490		86	83-113			
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch DF03001 - 3546

Blank

C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacotane (C30)	ND	0.5	mg/kg wet							

Surrogate: 1-Chlorooctadecane	1.28		mg/kg wet	2.000		64	40-140			
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Blank

2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch DF03001 - 3546

Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
<i>Surrogate: 2-Bromonaphthalene</i>	<i>48.2</i>		mg/L	<i>50.00</i>		<i>96</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>47.3</i>		mg/L	<i>50.00</i>		<i>95</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>1.59</i>		mg/kg wet	<i>2.000</i>		<i>80</i>	<i>40-140</i>			

LCS

C19-C36 Aliphatics1	15.2	15.0	mg/kg wet	16.00		95	40-140			
C9-C18 Aliphatics1	8.6	15.0	mg/kg wet	12.00		71	40-140			
Decane (C10)	1.1	0.5	mg/kg wet	2.000		55	40-140			
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		58	40-140			
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		46	30-140			
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		86	40-140			
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		85	40-140			
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000		69	40-140			
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		84	40-140			

<i>Surrogate: 1-Chlorooctadecane</i>	<i>1.27</i>		mg/kg wet	<i>2.000</i>		<i>63</i>	<i>40-140</i>			
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LCS

2-Methylnaphthalene	1.59	0.20	mg/kg wet	2.000		79	40-140			
Acenaphthene	1.74	0.40	mg/kg wet	2.000		87	40-140			
Acenaphthylene	1.56	0.20	mg/kg wet	2.000		78	40-140			
Anthracene	1.99	0.40	mg/kg wet	2.000		99	40-140			
Benzo(a)anthracene	2.46	0.40	mg/kg wet	2.000		123	40-140			
Benzo(a)pyrene	2.47	0.40	mg/kg wet	2.000		123	40-140			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch DF03001 - 3546										
Benzo(b)fluoranthene	2.63	0.40	mg/kg wet	2.000		131	40-140			
Benzo(g,h,i)perylene	2.10	0.40	mg/kg wet	2.000		105	40-140			
Benzo(k)fluoranthene	2.46	0.40	mg/kg wet	2.000		123	40-140			
C11-C22 Unadjusted Aromatics1	40.2	15.0	mg/kg wet	34.00		118	40-140			
Chrysene	2.30	0.40	mg/kg wet	2.000		115	40-140			
Dibenzo(a,h)Anthracene	2.28	0.20	mg/kg wet	2.000		114	40-140			
Fluoranthene	2.12	0.40	mg/kg wet	2.000		106	40-140			
Fluorene	1.82	0.40	mg/kg wet	2.000		91	40-140			
Indeno(1,2,3-cd)Pyrene	2.57	0.40	mg/kg wet	2.000		128	40-140			
Naphthalene	1.42	0.40	mg/kg wet	2.000		71	40-140			
Phenanthrene	1.96	0.40	mg/kg wet	2.000		98	40-140			
Pyrene	2.17	0.40	mg/kg wet	2.000		109	40-140			
Surrogate: 2-Bromonaphthalene	48.7		mg/L	50.00		97	40-140			
Surrogate: 2-Fluorobiphenyl	46.7		mg/L	50.00		93	40-140			
Surrogate: O-Terphenyl	1.69		mg/kg wet	2.000		84	40-140			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	14.7	15.0	mg/kg wet	16.00		92	40-140	4	25	
C9-C18 Aliphatics1	7.8	15.0	mg/kg wet	12.00		65	40-140	10	25	
Decane (C10)	0.9	0.5	mg/kg wet	2.000		47	40-140	14	25	
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		82	40-140	3	25	
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		51	40-140	13	25	
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		81	40-140	2	25	
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		82	40-140	3	25	
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		74	40-140	7	25	
Hexatriacontane (C36)	1.4	0.5	mg/kg wet	2.000		70	40-140	5	25	
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		80	40-140	3	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		39	30-140	16	25	
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		84	40-140	3	25	
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		78	40-140	4	25	
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		83	40-140	3	25	
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		62	40-140	11	25	
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		82	40-140	3	25	
Surrogate: 1-Chlorooctadecane	1.36		mg/kg wet	2.000		68	40-140			
LCS Dup										
2-Methylnaphthalene	1.43	0.20	mg/kg wet	2.000		71	40-140	10	30	
Acenaphthene	1.58	0.40	mg/kg wet	2.000		79	40-140	10	30	
Acenaphthylene	1.50	0.20	mg/kg wet	2.000		75	40-140	4	30	
Anthracene	1.80	0.40	mg/kg wet	2.000		90	40-140	10	30	
Benzo(a)anthracene	2.04	0.40	mg/kg wet	2.000		102	40-140	19	30	
Benzo(a)pyrene	2.04	0.40	mg/kg wet	2.000		102	40-140	19	30	
Benzo(b)fluoranthene	2.00	0.40	mg/kg wet	2.000		100	40-140	27	30	



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch DF03001 - 3546										
Benzo(g,h,i)perylene	1.62	0.40	mg/kg wet	2.000		81	40-140	26	30	
Benzo(k)fluoranthene	2.01	0.40	mg/kg wet	2.000		101	40-140	20	30	
C11-C22 Unadjusted Aromatics1	34.4	15.0	mg/kg wet	34.00		101	40-140	16	25	
Chrysene	1.88	0.40	mg/kg wet	2.000		94	40-140	20	30	
Dibenzo(a,h)Anthracene	1.79	0.20	mg/kg wet	2.000		90	40-140	24	30	
Fluoranthene	1.81	0.40	mg/kg wet	2.000		91	40-140	16	30	
Fluorene	1.64	0.40	mg/kg wet	2.000		82	40-140	10	30	
Indeno(1,2,3-cd)Pyrene	1.96	0.40	mg/kg wet	2.000		98	40-140	27	30	
Naphthalene	1.25	0.40	mg/kg wet	2.000		62	40-140	13	30	
Phenanthrene	1.75	0.40	mg/kg wet	2.000		87	40-140	12	30	
Pyrene	1.88	0.40	mg/kg wet	2.000		94	40-140	14	30	
Surrogate: 2-Bromonaphthalene	45.0		mg/L	50.00		90	40-140			
Surrogate: 2-Fluorobiphenyl	43.8		mg/L	50.00		88	40-140			
Surrogate: O-Terphenyl	1.52		mg/kg wet	2.000		76	40-140			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

Notes and Definitions

- U Analyte included in the analysis, but not detected
- MT Due to high target values, matrix spike analyte(s) is masked (MT).
- M+ Matrix Spike recovery is above upper control limit (M+).
- CD- Continuing Calibration %Diff/Drift is below control limit (CD-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1134

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB
 Shipped/Delivered Via: ESS Courier

ESS Project ID: 20F1134
 Date Received: 6/30/2020
 Project Due Date: 7/8/2020
 Days for Project: 5 Day

1. Air bill manifest present? No
 Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
 Temp: 2.4 Iced with: Ice
5. Was COC signed and dated by client? Yes

6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. Were labs informed about short holds & rushes? Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: _____
 Analysis: _____
 TAT: _____

12. Were VOAs received? Yes / No
 a. Air bubbles in aqueous VOAs? Yes / No
 b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
 b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	60742	Yes	N/A	Yes	4 oz. Jar	NP	
2	60743	Yes	N/A	Yes	4 oz. Jar	NP	
3	60744	Yes	N/A	Yes	4 oz. Jar	NP	
4	60745	Yes	N/A	Yes	4 oz. Jar	NP	
5	60746	Yes	N/A	Yes	4 oz. Jar	NP	
6	60747	Yes	N/A	Yes	4 oz. Jar	NP	
7	60748	Yes	N/A	Yes	4 oz. Jar	NP	
8	60749	Yes	N/A	Yes	4 oz. Jar	NP	
9	60750	Yes	N/A	Yes	4 oz. Jar	NP	
10	60751	Yes	N/A	Yes	4 oz. Jar	NP	
11	60752	Yes	N/A	Yes	4 oz. Jar	NP	

2nd Review

- Were all containers scanned into storage/lab?
 Are barcode labels on correct containers?
 Are all Flashpoint stickers attached/container ID # circled?
 Are all Hex Chrome stickers attached?
 Are all QC stickers attached?

Initials: [Signature]
 Yes / No
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20F1134

Date Received: 6/30/2020

Are VOA stickers attached if bubbles noted?

Yes / No / NA

Completed

By:



Date & Time:

6/30/20 1910

Reviewed

By:



Date & Time:

6/30/20 2001

Delivered

By:



Date & Time:

6/30/20 2001

Chain-of-Custody Record

Laboratory: ESS

Laboratory Job # 20F134
(Lab use only)



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information
Project Name: Former Tombarello Site
Project Location: Lawrence, Massachusetts
Project Number: 1802441
Project Manager: Leslie Lombardo

Page 1 of 1

Send Report and EDD to:
eastregiondata@geiconsultants.com,
llombardo@geiconsultants.com,
bfongmurdock@geiconsultants.com

Preservative

None	None	None					
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Sample Handling

Samples Field Filtered

YES NO NA

Sampled Shipped With Ice

YES NO

Sample Specific Remarks

MCP PRESUMPTIVE CERTAINTY REQUIRED YES NO

If Yes, Are MCP Analytical Methods Required? YES NO NA
Are Drinking Water Samples Submitted? YES NO NA
If Yes, Have Drinking Water Sampling Requirements Been Met? YES NO NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	EPA # / STATE / PAH	TOTAL LEAD	MS/MSD					
		Date	Time											
1	1802441-EX3-015	6/30/20	1003	SOIL	1	BFM	X							
2	1802441-EX3-025	6/30/20	1011	SOIL	1	BFM	X							
3	1802441-EX3-035	6/30/20	1020	SOIL	1	DFM	X							
4	1802441-EX3-045	6/30/20	1022	SOIL	1	DFM	X							
5	1802441-EX3-05B	6/30/20	1032	SOIL	1	BFM	X							
6	1802441-EX3-065	6/30/20	1040	SOIL	1	BFM		X						
7	1802441-EX3-075	6/30/20	1049	SOIL	1	BFM		X						
8	1802441-EX3-085	6/30/20	1058	SOIL	1	BFM		X						
9	1802441-EX3-09B	6/30/20	1107	SOIL	1	BFM		X	X					
10	1802441-FD-03	6/30/20	1200	SOIL	1	BFM	X							
11	1802441-FD-04	6/30/20	1201	SOIL	1	BFM		X						

MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Relinquished by: (signature) <u>[Signature]</u>	Date: <u>6/30/20</u>	Time: <u>1555</u>	Received by: (signature) <u>[Signature]</u>
1. GEI Refrigerator <u>[Signature]</u>	Date: <u>6/30/20</u>	Time: <u>17:45</u>	Received by: (signature) <u>[Signature]</u>
2. GEI Refrigerator <u>[Signature]</u>	Date: <u>6/30/20</u>	Time: <u>17:45</u>	Received by: (signature) <u>[Signature]</u>
3.	Date:	Time:	Received by: (signature)
4.	Date:	Time:	Received by: (signature)

Turnaround Time (Business days):

Normal X Other ___
10-Day ___ 7-Day ___
5-Day ___ 3-Day ___

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:



CERTIFICATE OF ANALYSIS

Leslie Lombardo
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

RE: Tombarello Site Investigation (1802441)
ESS Laboratory Work Order Number: 20G0018

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 1:09 pm, Jul 09, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0018

SAMPLE RECEIPT

The following samples were received on July 01, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
20G0018-01	1802441-EX4-31S	Soil	8082A
20G0018-02	1802441-EX4-32S	Soil	8082A
20G0018-03	1802441-EX4-33B	Soil	8082A



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0018

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0018

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0018

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20G0018-01 through 20G0018-03**

Matrices: () Ground Water/Surface Water Soil/Sediment () Drinking Water () Air () Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|---|--|--|---|--|---|
| <input type="checkbox"/> 8260 VOC
CAM II A | <input type="checkbox"/> 7470/7471 Hg
CAM III B | <input type="checkbox"/> MassDEP VPH
(GC/PID/FID)
CAM IV A | <input checked="" type="checkbox"/> 8082 PCB
CAM V A | <input type="checkbox"/> 9014 Total
Cyanide/PAC
CAM VI A | <input type="checkbox"/> 6860 Perchlorate
CAM VIII B |
| <input type="checkbox"/> 8270 SVOC
CAM II B | <input type="checkbox"/> 7010 Metals
CAM III C | <input type="checkbox"/> MassDEP VPH
(GC/MS)
CAM IV C | <input type="checkbox"/> 8081 Pesticides
CAM V B | <input type="checkbox"/> 7196 Hex Cr
CAM VI B | <input type="checkbox"/> MassDEP APH
CAM IX A |
| <input type="checkbox"/> 6010 Metals
CAM III A | <input type="checkbox"/> 6020 Metals
CAM III D | <input type="checkbox"/> MassDEP EPH
CAM IV B | <input type="checkbox"/> 8151 Herbicides
CAM V C | <input type="checkbox"/> Explosives
CAM VIII A | <input type="checkbox"/> TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- | | | |
|---|--|--|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes <input checked="" type="checkbox"/> No () |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | Yes <input checked="" type="checkbox"/> No () |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | Yes <input checked="" type="checkbox"/> No () |
| D | Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | Yes <input checked="" type="checkbox"/> No () |
| E | VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | Yes () No () |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | Yes <input checked="" type="checkbox"/> No () |

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- | | | |
|---|---|---|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350. | Yes <input checked="" type="checkbox"/> No ()* |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | Yes <input checked="" type="checkbox"/> No ()* |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | Yes <input checked="" type="checkbox"/> No ()* |

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: July 09, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-31S
Date Sampled: 06/30/20 16:20
Percent Solids: 92
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20G0018
ESS Laboratory Sample ID: 20G0018-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:11

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 19:24	D0G0051	DG00208
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 19:24	D0G0051	DG00208
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 19:24	D0G0051	DG00208
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 19:24	D0G0051	DG00208
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 19:24	D0G0051	DG00208
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 19:24	D0G0051	DG00208
Aroclor 1260	ND (0.06)		8082A		1	07/03/20 19:24	D0G0051	DG00208
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 19:24	D0G0051	DG00208
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 19:24	D0G0051	DG00208

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	72 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	72 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	73 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	89 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-32S
Date Sampled: 06/30/20 16:27
Percent Solids: 94
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20G0018
ESS Laboratory Sample ID: 20G0018-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:11

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/03/20 19:44	D0G0051	DG00208
Aroclor 1221	ND (0.05)		8082A		1	07/03/20 19:44	D0G0051	DG00208
Aroclor 1232	ND (0.05)		8082A		1	07/03/20 19:44	D0G0051	DG00208
Aroclor 1242	ND (0.05)		8082A		1	07/03/20 19:44	D0G0051	DG00208
Aroclor 1248	ND (0.05)		8082A		1	07/03/20 19:44	D0G0051	DG00208
Aroclor 1254	ND (0.05)		8082A		1	07/03/20 19:44	D0G0051	DG00208
Aroclor 1260	0.2 (0.05)		8082A		1	07/03/20 19:44	D0G0051	DG00208
Aroclor 1262	ND (0.05)		8082A		1	07/03/20 19:44	D0G0051	DG00208
Aroclor 1268	ND (0.05)		8082A		1	07/03/20 19:44	D0G0051	DG00208

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	53 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	53 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	47 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	57 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX4-33B
Date Sampled: 06/30/20 16:35
Percent Solids: 88
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20G0018
ESS Laboratory Sample ID: 20G0018-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/2/20 13:11

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/03/20 20:03	D0G0051	DG00208
Aroclor 1221	ND (0.06)		8082A		1	07/03/20 20:03	D0G0051	DG00208
Aroclor 1232	ND (0.06)		8082A		1	07/03/20 20:03	D0G0051	DG00208
Aroclor 1242	ND (0.06)		8082A		1	07/03/20 20:03	D0G0051	DG00208
Aroclor 1248	ND (0.06)		8082A		1	07/03/20 20:03	D0G0051	DG00208
Aroclor 1254	ND (0.06)		8082A		1	07/03/20 20:03	D0G0051	DG00208
Aroclor 1260 [2C]	0.2 (0.06)		8082A		1	07/03/20 20:03	D0G0051	DG00208
Aroclor 1262	ND (0.06)		8082A		1	07/03/20 20:03	D0G0051	DG00208
Aroclor 1268	ND (0.06)		8082A		1	07/03/20 20:03	D0G0051	DG00208

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	60 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	59 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	61 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	71 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0018

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DG00208 - 3540C

Blank

Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0222		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene	0.0230		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0239		mg/kg wet	0.02500		95	30-150			

LCS

Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		98	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		101	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		99	40-140			

Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0226		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		89	30-150			

LCS Dup

Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		96	40-140	1	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140	1	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		101	40-140	0.6	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140	0.4	30	

Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0215		mg/kg wet	0.02500		86	30-150			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0018

Notes and Definitions

- U Analyte included in the analysis, but not detected
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0018

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20G0018

Date Received: 7/1/2020

Project Due Date: 7/9/2020

Days for Project: 5 Day

Shipped/Delivered Via: ESS Courier

- 1. Air bill manifest present? No
Air No.: NA
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
Temp: 0.9 Iced with: Ice
- 5. Was COC signed and dated by client? Yes

- 6. Does COC match bottles? Yes
- 7. Is COC complete and correct? Yes
- 8. Were samples received intact? Yes
- 9. Were labs informed about **short holds & rushes**? Yes / No NA
- 10. Were any analyses received outside of hold time? Yes No

11. Any Subcontracting needed? Yes / No
ESS Sample IDs: _____
Analysis: _____
TAT: _____

12. Were VOAs received? Yes / No
a. Air bubbles in aqueous VOAs? Yes / No
b. Does methanol cover soil completely? Yes / No NA

13. Are the samples properly preserved? Yes / No
a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
a. Was there a need to contact the client? Yes / No
Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	60985	Yes	N/A	Yes	4 oz. Jar	NP	
2	60986	Yes	N/A	Yes	4 oz. Jar	NP	
3	60987	Yes	N/A	Yes	4 oz. Jar	NP	

2nd Review

Were all containers scanned into storage/lab?

Initials AG

- Are barcode labels on correct containers? Yes / No
- Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA
- Are all Hex Chrome stickers attached? Yes / No / NA
- Are all QC stickers attached? Yes / No / NA
- Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: Amber Garcia Date & Time: 7/1/20 15:27
 Reviewed By: [Signature] Date & Time: 7/1/20 1550
 Delivered By: [Signature] Date & Time: 7/1/20 1550



CERTIFICATE OF ANALYSIS

Leslie Lombardo
 GEI Consultants, Inc.
 400 Unicorn Park Drive
 Woburn, MA 01801

RE: Tombarello Site Investigation (1802441)
ESS Laboratory Work Order Number: 20G0019

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
 Laboratory Director

REVIEWED

By ESS Laboratory at 1:14 pm, Jul 09, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

SAMPLE RECEIPT

The following samples were received on July 01, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
20G0019-01	1802441-EB-01	Aqueous	EPH8270, MADEP-EPH
20G0019-02	1802441-EB-02	Aqueous	8082A



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

PROJECT NARRATIVE

MADEP-EPH Extractable Petroleum Hydrocarbons

D0G0043-CCV3 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)
Chrysene (21% @ 20%), O-Terphenyl (22% @ 20%), Phenanthrene (22% @ 20%)
D0G0047-CCV1 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)
Hexatriacontane (C36) (36% @ 25%)
D0G0047-CCV2 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)
Hexatriacontane (C36) (48% @ 25%)
D0G0047-CCV3 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)
Hexatriacontane (C36) (59% @ 25%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20G0019-01 through 20G0019-02**

Matrices: () Ground Water/Surface Water () Soil/Sediment () Drinking Water () Air (X) Other: Aqueous

CAM Protocol (check all that apply below):

- | | | | | | |
|------------------------------|-------------------------------|---|--------------------------------|---|------------------------------------|
| () 8260 VOC
CAM II A | () 7470/7471 Hg
CAM III B | () MassDEP VPH
(GC/PID/FID)
CAM IV A | (X) 8082 PCB
CAM V A | () 9014 Total
Cyanide/PAC
CAM VI A | () 6860 Perchlorate
CAM VIII B |
| () 8270 SVOC
CAM II B | () 7010 Metals
CAM III C | () MassDEP VPH
(GC/MS)
CAM IV C | () 8081 Pesticides
CAM V B | () 7196 Hex Cr
CAM VI B | () MassDEP APH
CAM IX A |
| () 6010 Metals
CAM III A | () 6020 Metals
CAM III D | (X) MassDEP EPH
CAM IV B | () 8151 Herbicides
CAM V C | () Explosives
CAM VIII A | () TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- | | | |
|---|--|----------------------------------|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes (X) No () |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | Yes (X) No () |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | Yes (X) No () |
| D | Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | Yes (X) No () |
| E | VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | Yes (X) No ()
Yes () No () |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | Yes (X) No () |

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- | | | |
|---|---|-----------------|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350. | Yes (X) No ()* |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | Yes () No (X)* |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | Yes (X) No ()* |

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: July 09, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EB-01
Date Sampled: 06/30/20 12:15
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 20G0019
ESS Laboratory Sample ID: 20G0019-01
Sample Matrix: Aqueous
Units: ug/L

Prepared: 7/2/20 13:06

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (93)		MADEP-EPH		1	MJV	07/03/20 20:36	D0G0047	DG00203
C19-C36 Aliphatics1	ND (93)		MADEP-EPH		1	MJV	07/03/20 20:36	D0G0047	DG00203
C11-C22 Unadjusted Aromatics1	ND (93.5)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
C11-C22 Aromatics1,2	ND (93.5)		EPH8270			VSC	07/04/20 7:38		[CALC]
2-Methylnaphthalene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Acenaphthene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Naphthalene	ND (9.3)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Phenanthrene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Acenaphthylene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Anthracene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Benzo(a)anthracene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Benzo(a)pyrene	ND (9.3)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Benzo(b)fluoranthene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Benzo(g,h,i)perylene	ND (9.3)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Benzo(k)fluoranthene	ND (9.3)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Chrysene	ND (9.3)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Dibenzo(a,h)Anthracene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Fluoranthene	ND (9.3)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Fluorene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Indeno(1,2,3-cd)Pyrene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Pyrene	ND (4.7)		EPH8270		1	VSC	07/04/20 7:38	D0G0043	DG00203
Preservative:	pH <= 2		MADEP-EPH			IBM			DG00203

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	56 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	81 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	117 %		40-140
<i>Surrogate: O-Terphenyl</i>	96 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EB-02
Date Sampled: 06/30/20 17:31
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 20G0019
ESS Laboratory Sample ID: 20G0019-02
Sample Matrix: Aqueous
Units: ug/L
Analyst: DMC
Prepared: 7/1/20 16:59

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.09)		8082A		1	07/02/20 10:46		DF03013
Aroclor 1221	ND (0.09)		8082A		1	07/02/20 10:46		DF03013
Aroclor 1232	ND (0.09)		8082A		1	07/02/20 10:46		DF03013
Aroclor 1242	ND (0.09)		8082A		1	07/02/20 10:46		DF03013
Aroclor 1248	ND (0.09)		8082A		1	07/02/20 10:46		DF03013
Aroclor 1254	ND (0.09)		8082A		1	07/02/20 10:46		DF03013
Aroclor 1260	ND (0.09)		8082A		1	07/02/20 10:46		DF03013
Aroclor 1262	ND (0.09)		8082A		1	07/02/20 10:46		DF03013
Aroclor 1268	ND (0.09)		8082A		1	07/02/20 10:46		DF03013

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	69 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	72 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	71 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DF03013 - 3510C

Blank

Aroclor 1016	ND	0.05	ug/L							
Aroclor 1016 [2C]	ND	0.05	ug/L							
Aroclor 1221	ND	0.05	ug/L							
Aroclor 1221 [2C]	ND	0.05	ug/L							
Aroclor 1232	ND	0.05	ug/L							
Aroclor 1232 [2C]	ND	0.05	ug/L							
Aroclor 1242	ND	0.05	ug/L							
Aroclor 1242 [2C]	ND	0.05	ug/L							
Aroclor 1248	ND	0.05	ug/L							
Aroclor 1248 [2C]	ND	0.05	ug/L							
Aroclor 1254	ND	0.05	ug/L							
Aroclor 1254 [2C]	ND	0.05	ug/L							
Aroclor 1260	ND	0.05	ug/L							
Aroclor 1260 [2C]	ND	0.05	ug/L							
Aroclor 1262	ND	0.05	ug/L							
Aroclor 1262 [2C]	ND	0.05	ug/L							
Aroclor 1268	ND	0.05	ug/L							
Aroclor 1268 [2C]	ND	0.05	ug/L							

Surrogate: Decachlorobiphenyl	0.0343		ug/L	0.05000		69	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0357		ug/L	0.05000		71	30-150			
Surrogate: Tetrachloro-m-xylene	0.0301		ug/L	0.05000		60	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0321		ug/L	0.05000		64	30-150			

LCS

Aroclor 1016	0.87	0.05	ug/L	1.000		87	40-140			
Aroclor 1016 [2C]	0.87	0.05	ug/L	1.000		87	40-140			
Aroclor 1260	0.91	0.05	ug/L	1.000		91	40-140			
Aroclor 1260 [2C]	0.91	0.05	ug/L	1.000		91	40-140			

Surrogate: Decachlorobiphenyl	0.0435		ug/L	0.05000		87	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0450		ug/L	0.05000		90	30-150			
Surrogate: Tetrachloro-m-xylene	0.0300		ug/L	0.05000		60	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0298		ug/L	0.05000		60	30-150			

LCS Dup

Aroclor 1016	0.89	0.05	ug/L	1.000		89	40-140	3	20	
Aroclor 1016 [2C]	0.89	0.05	ug/L	1.000		89	40-140	2	20	
Aroclor 1260	0.92	0.05	ug/L	1.000		92	40-140	1	20	
Aroclor 1260 [2C]	0.91	0.05	ug/L	1.000		91	40-140	0.8	20	

Surrogate: Decachlorobiphenyl	0.0439		ug/L	0.05000		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0456		ug/L	0.05000		91	30-150			
Surrogate: Tetrachloro-m-xylene	0.0315		ug/L	0.05000		63	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0313		ug/L	0.05000		63	30-150			

MADEP-EPH Extractable Petroleum Hydrocarbons



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch DG00203 - 3510C

Blank

C19-C36 Aliphatics1	ND	100	ug/L							
C9-C18 Aliphatics1	ND	100	ug/L							
Decane (C10)	ND	5	ug/L							
Docosane (C22)	ND	5	ug/L							
Dodecane (C12)	ND	5	ug/L							
Eicosane (C20)	ND	5	ug/L							
Hexacosane (C26)	ND	5	ug/L							
Hexadecane (C16)	ND	5	ug/L							
Hexatriacontane (C36)	ND	5	ug/L							
Nonadecane (C19)	ND	5	ug/L							
Nonane (C9)	ND	5	ug/L							
Octacosane (C28)	ND	5	ug/L							
Octadecane (C18)	ND	5	ug/L							
Tetracosane (C24)	ND	5	ug/L							
Tetradecane (C14)	ND	5	ug/L							
Triacontane (C30)	ND	5	ug/L							

<i>Surrogate: 1-Chlorooctadecane</i>	34.3		ug/L	50.00		69	40-140			
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Blank

2-Methylnaphthalene	ND	5.0	ug/L							
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Anthracene	ND	5.0	ug/L							
Benzo(a)anthracene	ND	5.0	ug/L							
Benzo(a)pyrene	ND	10.0	ug/L							
Benzo(b)fluoranthene	ND	5.0	ug/L							
Benzo(g,h,i)perylene	ND	10.0	ug/L							
Benzo(k)fluoranthene	ND	10.0	ug/L							
C11-C22 Unadjusted Aromatics1	ND	100	ug/L							
Chrysene	ND	10.0	ug/L							
Dibenzo(a,h)Anthracene	ND	5.0	ug/L							
Fluoranthene	ND	10.0	ug/L							
Fluorene	ND	5.0	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	5.0	ug/L							
Naphthalene	ND	10.0	ug/L							
Phenanthrene	ND	5.0	ug/L							
Pyrene	ND	5.0	ug/L							

<i>Surrogate: 2-Bromonaphthalene</i>	35.9		ug/L	50.00		72	40-140			
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<i>Surrogate: 2-Fluorobiphenyl</i>	60.8		ug/L	50.00		122	40-140			
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<i>Surrogate: O-Terphenyl</i>	49.8		ug/L	50.00		100	40-140			
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LCS

C19-C36 Aliphatics1	353	100	ug/L	400.0		88	40-140			
C9-C18 Aliphatics1	211	100	ug/L	300.0		70	40-140			
Decane (C10)	26	5	ug/L	50.00		51	40-140			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch DG00203 - 3510C										
Docosane (C22)	43	5	ug/L	50.00		87	40-140			
Dodecane (C12)	31	5	ug/L	50.00		62	40-140			
Eicosane (C20)	43	5	ug/L	50.00		86	40-140			
Hexacosane (C26)	43	5	ug/L	50.00		86	40-140			
Hexadecane (C16)	41	5	ug/L	50.00		81	40-140			
Hexatriacontane (C36)	28	5	ug/L	50.00		56	40-140			
Nonadecane (C19)	43	5	ug/L	50.00		86	40-140			
Nonane (C9)	20	5	ug/L	50.00		40	30-140			
Octacosane (C28)	43	5	ug/L	50.00		86	40-140			
Octadecane (C18)	43	5	ug/L	50.00		86	40-140			
Tetracosane (C24)	44	5	ug/L	50.00		88	40-140			
Tetradecane (C14)	37	5	ug/L	50.00		73	40-140			
Triacontane (C30)	40	5	ug/L	50.00		80	40-140			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>33.0</i>		ug/L	<i>50.00</i>		<i>66</i>	<i>40-140</i>			
LCS										
2-Methylnaphthalene	43.2	5.0	ug/L	50.00		86	40-140			
Acenaphthene	47.8	5.0	ug/L	50.00		96	40-140			
Acenaphthylene	46.1	5.0	ug/L	50.00		92	40-140			
Anthracene	50.8	5.0	ug/L	50.00		102	40-140			
Benzo(a)anthracene	44.0	5.0	ug/L	50.00		88	40-140			
Benzo(a)pyrene	44.5	10.0	ug/L	50.00		89	40-140			
Benzo(b)fluoranthene	44.7	5.0	ug/L	50.00		89	40-140			
Benzo(g,h,i)perylene	41.6	10.0	ug/L	50.00		83	40-140			
Benzo(k)fluoranthene	56.8	10.0	ug/L	50.00		114	40-140			
C11-C22 Unadjusted Aromatics1	806	100	ug/L	850.0		95	40-140			
Chrysene	52.2	10.0	ug/L	50.00		104	40-140			
Dibenzo(a,h)Anthracene	42.1	5.0	ug/L	50.00		84	40-140			
Fluoranthene	53.4	10.0	ug/L	50.00		107	40-140			
Fluorene	50.9	5.0	ug/L	50.00		102	40-140			
Indeno(1,2,3-cd)Pyrene	42.9	5.0	ug/L	50.00		86	40-140			
Naphthalene	38.6	10.0	ug/L	50.00		77	40-140			
Phenanthrene	53.0	5.0	ug/L	50.00		106	40-140			
Pyrene	54.8	5.0	ug/L	50.00		110	40-140			
<i>Surrogate: 2-Bromonaphthalene</i>	<i>41.6</i>		ug/L	<i>50.00</i>		<i>83</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>58.0</i>		ug/L	<i>50.00</i>		<i>116</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>46.8</i>		ug/L	<i>50.00</i>		<i>94</i>	<i>40-140</i>			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	379	100	ug/L	400.0		95	40-140	7	25	
C9-C18 Aliphatics1	231	100	ug/L	300.0		77	40-140	9	25	
Decane (C10)	28	5	ug/L	50.00		57	40-140	11	25	
Docosane (C22)	47	5	ug/L	50.00		93	40-140	7	25	



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch DG00203 - 3510C

Dodecane (C12)	35	5	ug/L	50.00		69	40-140	10	25	
Eicosane (C20)	47	5	ug/L	50.00		93	40-140	7	25	
Hexacosane (C26)	46	5	ug/L	50.00		93	40-140	7	25	
Hexadecane (C16)	44	5	ug/L	50.00		88	40-140	8	25	
Hexatriacontane (C36)	32	5	ug/L	50.00		63	40-140	12	25	
Nonadecane (C19)	46	5	ug/L	50.00		93	40-140	8	25	
Nonane (C9)	22	5	ug/L	50.00		44	30-140	10	25	
Octacosane (C28)	46	5	ug/L	50.00		92	40-140	7	25	
Octadecane (C18)	46	5	ug/L	50.00		93	40-140	7	25	
Tetracosane (C24)	47	5	ug/L	50.00		94	40-140	7	25	
Tetradecane (C14)	40	5	ug/L	50.00		80	40-140	9	25	
Triacontane (C30)	43	5	ug/L	50.00		86	40-140	7	25	

<i>Surrogate: 1-Chlorooctadecane</i>	<i>36.0</i>		ug/L	<i>50.00</i>		<i>72</i>	<i>40-140</i>			
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LCS Dup

2-Methylnaphthalene	46.0	5.0	ug/L	50.00		92	40-140	6	20	
Acenaphthene	50.8	5.0	ug/L	50.00		102	40-140	6	20	
Acenaphthylene	49.3	5.0	ug/L	50.00		99	40-140	7	20	
Anthracene	56.9	5.0	ug/L	50.00		114	40-140	11	20	
Benzo(a)anthracene	47.6	5.0	ug/L	50.00		95	40-140	8	20	
Benzo(a)pyrene	48.2	10.0	ug/L	50.00		96	40-140	8	20	
Benzo(b)fluoranthene	47.3	5.0	ug/L	50.00		95	40-140	6	20	
Benzo(g,h,i)perylene	45.4	10.0	ug/L	50.00		91	40-140	9	20	
Benzo(k)fluoranthene	62.8	10.0	ug/L	50.00		126	40-140	10	20	
C11-C22 Unadjusted Aromatics1	861	100	ug/L	850.0		101	40-140	7	25	
Chrysene	56.9	10.0	ug/L	50.00		114	40-140	9	20	
Dibenzo(a,h)Anthracene	46.1	5.0	ug/L	50.00		92	40-140	9	20	
Fluoranthene	58.8	10.0	ug/L	50.00		118	40-140	10	20	
Fluorene	53.6	5.0	ug/L	50.00		107	40-140	5	20	
Indeno(1,2,3-cd)Pyrene	46.6	5.0	ug/L	50.00		93	40-140	8	20	
Naphthalene	42.7	10.0	ug/L	50.00		85	40-140	10	20	
Phenanthrene	58.5	5.0	ug/L	50.00		117	40-140	10	20	
Pyrene	58.6	5.0	ug/L	50.00		117	40-140	7	20	
<i>Surrogate: 2-Bromonaphthalene</i>	<i>42.4</i>		ug/L	<i>50.00</i>		<i>85</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>59.3</i>		ug/L	<i>50.00</i>		<i>119</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>49.3</i>		ug/L	<i>50.00</i>		<i>99</i>	<i>40-140</i>			

LCS Dup

2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

Notes and Definitions

- Z-06 pH <= 2
- U Analyte included in the analysis, but not detected
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- CD- Continuing Calibration %Diff/Drift is below control limit (CD-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20G0019

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20G0019

Date Received: 7/1/2020

Shipped/Delivered Via: ESS Courier

Project Due Date: 7/9/2020

Days for Project: 5 Day

- 1. Air bill manifest present? No
Air No.: NA
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
Temp: 0.9 Iced with: Ice
- 5. Was COC signed and dated by client? Yes

- 6. Does COC match bottles? Yes
- 7. Is COC complete and correct? Yes
- 8. Were samples received intact? Yes
- 9. Were labs informed about short holds & rushes? Yes / No NA
- 10. Were any analyses received outside of hold time? Yes No

11. Any Subcontracting needed? Yes / No
ESS Sample IDs: _____
Analysis: _____
TAT: _____

12. Were VOAs received? Yes / No
a. Air bubbles in aqueous VOAs? Yes / No
b. Does methanol cover soil completely? Yes / No NA

13. Are the samples properly preserved? Yes / No
a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
a. Was there a need to contact the client? Yes / No
Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	60988	Yes	N/A	Yes	1L Amber	HCl	
1	60989	Yes	N/A	Yes	1L Amber	HCl	
2	60990	Yes	N/A	Yes	1L Amber	NP	
2	60991	Yes	N/A	Yes	1L Amber	NP	

2nd Review

Were all containers scanned into storage/lab? Initials AG
 Are barcode labels on correct containers? Yes / No
 Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA
 Are all Hex Chrome stickers attached? Yes / No / NA
 Are all QC stickers attached? Yes / No / NA
 Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: Amber Garcia Date & Time: 7/1/20 15:26
 Reviewed By: [Signature] Date & Time: 7/1/20 1557
 Delivered By: [Signature] Date & Time: 7/1/20 1557

Chain-of-Custody Record

Laboratory: ESS

Laboratory Job # 2060019
(Lab use only)



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Name: Former Tombarello Site

Project Number: 1802441

Send Report and EDD to:
eastregiondata@geiconsultants.com,
llombardo@geiconsultants.com,
bfongmurdock@geiconsultants.com

Project Information

Project Location: Lawrence, Massachusetts

Project Manager: Leslie Lombardo

Page 1 of 1

Sample Handling

Samples Field Filtered

YES NO NA

Sampled Shipped With Ice

YES NO

Sample Specific Remarks

MCP PRESUMPTIVE CERTAINTY REQUIRED

YES NO

If Yes, Are MCP Analytical Methods Required?

YES NO NA

Are Drinking Water Samples Submitted?

YES NO NA

If Yes, Have Drinking Water Sampling Requirements Been Met?

YES NO NA

Lab Sample Number

GEI Sample ID

Collection

Date

Time

Matrix

No. of Bottles

Sampler(s) Initials

Preservative

Sample Specific Remarks

Turnaround Time (Business days):

Normal Other

10-Day 7-Day

5-Day 3-Day

Additional Requirements/Comments/Remarks:

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

MANUAL SOLVENT EXTRACTION FOR PCBs

1. Relinquished by (signature): [Signature] Date: 6/30/20 Time: 1801 Received by (signature): 1. GEI Refrigerator

2. Relinquished by (signature): [Signature] Date: 7/1/20 Time: 1155 Received by (signature): 2. [Signature]

3. Relinquished by (signature): [Signature] Date: 7/1/20 Time: 1155 Received by (signature): 3. [Signature]

4. Relinquished by (signature): [Signature] Date: 7/1/20 Time: 1436 Received by (signature): 4. Amber Janvier

MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.

1. Relinquished by (signature): [Signature] Date: 6/30/20 Time: 1801 Received by (signature): 1. GEI Refrigerator

2. Relinquished by (signature): [Signature] Date: 7/1/20 Time: 1155 Received by (signature): 2. [Signature]

3. Relinquished by (signature): [Signature] Date: 7/1/20 Time: 1155 Received by (signature): 3. [Signature]

4. Relinquished by (signature): [Signature] Date: 7/1/20 Time: 1436 Received by (signature): 4. Amber Janvier

Lot 2



CERTIFICATE OF ANALYSIS

Leslie Lombardo
 GEI Consultants, Inc.
 400 Unicorn Park Drive
 Woburn, MA 01801

RE: Tombarello Site Investigation (1802441)
ESS Laboratory Work Order Number: 20F0915

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
 Laboratory Director

REVIEWED
 By ESS Laboratory at 11:40 am, Jul 02, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0915

SAMPLE RECEIPT

The following samples were received on June 24, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
20F0915-01	1802441-EX1-01S	Soil	8082A
20F0915-02	1802441-EX1-02S	Soil	8082A
20F0915-03	1802441-EX1-03S	Soil	8082A
20F0915-04	1802441-EX1-04B	Soil	8082A
20F0915-05	1802441-EX1-05S	Soil	8082A
20F0915-06	1802441-EX1-06S	Soil	8082A
20F0915-07	1802441-EX1-07B	Soil	8082A
20F0915-08	1802441-FD-01	Soil	8082A



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
 Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0915

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

- 20F0915-01 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
 Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0915-02 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
 Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0915-03 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
 Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0915-04 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
 Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0915-05 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
 Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0915-06 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
 Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0915-08 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
 Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0915

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0915

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20F0915-01 through 20F0915-08**

Matrices: Ground Water/Surface Water Soil/Sediment Drinking Water Air Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|---|--|--|---|--|---|
| <input type="checkbox"/> 8260 VOC
CAM II A | <input type="checkbox"/> 7470/7471 Hg
CAM III B | <input type="checkbox"/> MassDEP VPH
(GC/PID/FID)
CAM IV A | <input checked="" type="checkbox"/> 8082 PCB
CAM V A | <input type="checkbox"/> 9014 Total
Cyanide/PAC
CAM VI A | <input type="checkbox"/> 6860 Perchlorate
CAM VIII B |
| <input type="checkbox"/> 8270 SVOC
CAM II B | <input type="checkbox"/> 7010 Metals
CAM III C | <input type="checkbox"/> MassDEP VPH
(GC/MS)
CAM IV C | <input type="checkbox"/> 8081 Pesticides
CAM V B | <input type="checkbox"/> 7196 Hex Cr
CAM VI B | <input type="checkbox"/> MassDEP APH
CAM IX A |
| <input type="checkbox"/> 6010 Metals
CAM III A | <input type="checkbox"/> 6020 Metals
CAM III D | <input type="checkbox"/> MassDEP EPH
CAM IV B | <input type="checkbox"/> 8151 Herbicides
CAM V C | <input type="checkbox"/> Explosives
CAM VIII A | <input type="checkbox"/> TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- | | | |
|---|--|----------------|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes (X) No () |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | Yes (X) No () |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | Yes (X) No () |
| D | Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | Yes (X) No () |
| E | VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | Yes () No () |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | Yes (X) No () |

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- | | | |
|---|---|-----------------|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350. | Yes (X) No ()* |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | Yes () No (X)* |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | Yes (X) No ()* |

**All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: July 01, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-01S
Date Sampled: 06/23/20 09:15
Percent Solids: 84
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0915
ESS Laboratory Sample ID: 20F0915-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/26/20 12:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (30.6)		8082A		500	06/30/20 11:08		DF02605
Aroclor 1221	ND (30.6)		8082A		500	06/30/20 11:08		DF02605
Aroclor 1232	ND (30.6)		8082A		500	06/30/20 11:08		DF02605
Aroclor 1242	ND (30.6)		8082A		500	06/30/20 11:08		DF02605
Aroclor 1248	605 (30.6)		8082A		500	06/30/20 11:08		DF02605
Aroclor 1254	ND (30.6)		8082A		500	06/30/20 11:08		DF02605
Aroclor 1260 [2C]	49.2 (30.6)		8082A		500	06/30/20 11:08		DF02605
Aroclor 1262	ND (30.6)		8082A		500	06/30/20 11:08		DF02605
Aroclor 1268	ND (30.6)		8082A		500	06/30/20 11:08		DF02605

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	<i>SD</i>	<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	<i>SD</i>	<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	%	<i>SD</i>	<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	<i>SD</i>	<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-02S
Date Sampled: 06/23/20 09:24
Percent Solids: 95
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0915
ESS Laboratory Sample ID: 20F0915-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/26/20 12:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (26.2)		8082A		500	06/30/20 11:28		DF02605
Aroclor 1221	ND (26.2)		8082A		500	06/30/20 11:28		DF02605
Aroclor 1232	ND (26.2)		8082A		500	06/30/20 11:28		DF02605
Aroclor 1242	ND (26.2)		8082A		500	06/30/20 11:28		DF02605
Aroclor 1248 [2C]	478 (26.2)		8082A		500	06/30/20 11:28		DF02605
Aroclor 1254	ND (26.2)		8082A		500	06/30/20 11:28		DF02605
Aroclor 1260 [2C]	47.7 (26.2)		8082A		500	06/30/20 11:28		DF02605
Aroclor 1262	ND (26.2)		8082A		500	06/30/20 11:28		DF02605
Aroclor 1268	ND (26.2)		8082A		500	06/30/20 11:28		DF02605

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
 Client Project ID: Tombarello Site Investigation
 Client Sample ID: 1802441-EX1-03S
 Date Sampled: 06/23/20 09:34
 Percent Solids: 95
 Initial Volume: 20.7
 Final Volume: 10
 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0915
 ESS Laboratory Sample ID: 20F0915-03
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 6/26/20 12:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (5.1)		8082A		100	06/30/20 11:47		DF02605
Aroclor 1221	ND (5.1)		8082A		100	06/30/20 11:47		DF02605
Aroclor 1232	ND (5.1)		8082A		100	06/30/20 11:47		DF02605
Aroclor 1242	ND (5.1)		8082A		100	06/30/20 11:47		DF02605
Aroclor 1248	ND (5.1)		8082A		100	06/30/20 11:47		DF02605
Aroclor 1254	84.5 (5.1)		8082A		100	06/30/20 11:47		DF02605
Aroclor 1260	ND (5.1)		8082A		100	06/30/20 11:47		DF02605
Aroclor 1262	ND (5.1)		8082A		100	06/30/20 11:47		DF02605
Aroclor 1268	ND (5.1)		8082A		100	06/30/20 11:47		DF02605

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-04B
Date Sampled: 06/23/20 09:52
Percent Solids: 87
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0915
ESS Laboratory Sample ID: 20F0915-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/26/20 12:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (23.8)		8082A		400	07/01/20 3:33		DF02605
Aroclor 1221	ND (23.8)		8082A		400	07/01/20 3:33		DF02605
Aroclor 1232	ND (23.8)		8082A		400	07/01/20 3:33		DF02605
Aroclor 1242	ND (23.8)		8082A		400	07/01/20 3:33		DF02605
Aroclor 1248	273 (23.8)		8082A		400	07/01/20 3:33		DF02605
Aroclor 1254	ND (23.8)		8082A		400	07/01/20 3:33		DF02605
Aroclor 1260	ND (23.8)		8082A		400	07/01/20 3:33		DF02605
Aroclor 1262	ND (23.8)		8082A		400	07/01/20 3:33		DF02605
Aroclor 1268	ND (23.8)		8082A		400	07/01/20 3:33		DF02605

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-05S
Date Sampled: 06/23/20 12:15
Percent Solids: 85
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0915
ESS Laboratory Sample ID: 20F0915-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/26/20 12:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (23.4)		8082A		400	07/01/20 3:52		DF02605
Aroclor 1221	ND (23.4)		8082A		400	07/01/20 3:52		DF02605
Aroclor 1232	ND (23.4)		8082A		400	07/01/20 3:52		DF02605
Aroclor 1242	ND (23.4)		8082A		400	07/01/20 3:52		DF02605
Aroclor 1248 [2C]	256 (23.4)		8082A		400	07/01/20 3:52		DF02605
Aroclor 1254	ND (23.4)		8082A		400	07/01/20 3:52		DF02605
Aroclor 1260	ND (23.4)		8082A		400	07/01/20 3:52		DF02605
Aroclor 1262	ND (23.4)		8082A		400	07/01/20 3:52		DF02605
Aroclor 1268	ND (23.4)		8082A		400	07/01/20 3:52		DF02605

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-06S
Date Sampled: 06/23/20 12:26
Percent Solids: 86
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0915
ESS Laboratory Sample ID: 20F0915-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/26/20 12:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (6.0)		8082A		100	06/30/20 13:26		DF02605
Aroclor 1221	ND (6.0)		8082A		100	06/30/20 13:26		DF02605
Aroclor 1232	ND (6.0)		8082A		100	06/30/20 13:26		DF02605
Aroclor 1242	ND (6.0)		8082A		100	06/30/20 13:26		DF02605
Aroclor 1248 [2C]	29.1 (6.0)		8082A		100	06/30/20 13:26		DF02605
Aroclor 1254	ND (6.0)		8082A		100	06/30/20 13:26		DF02605
Aroclor 1260	ND (6.0)		8082A		100	06/30/20 13:26		DF02605
Aroclor 1262	ND (6.0)		8082A		100	06/30/20 13:26		DF02605
Aroclor 1268	ND (6.0)		8082A		100	06/30/20 13:26		DF02605

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-07B
Date Sampled: 06/23/20 15:21
Percent Solids: 75
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0915
ESS Laboratory Sample ID: 20F0915-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/26/20 12:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.07)		8082A		1	06/30/20 12:47		DF02605
Aroclor 1221	ND (0.07)		8082A		1	06/30/20 12:47		DF02605
Aroclor 1232	ND (0.07)		8082A		1	06/30/20 12:47		DF02605
Aroclor 1242	ND (0.07)		8082A		1	06/30/20 12:47		DF02605
Aroclor 1248	1.2 (0.07)		8082A		1	06/30/20 12:47		DF02605
Aroclor 1254	ND (0.07)		8082A		1	06/30/20 12:47		DF02605
Aroclor 1260	ND (0.07)		8082A		1	06/30/20 12:47		DF02605
Aroclor 1262	ND (0.07)		8082A		1	06/30/20 12:47		DF02605
Aroclor 1268	ND (0.07)		8082A		1	06/30/20 12:47		DF02605

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	103 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	106 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	106 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	96 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-FD-01
Date Sampled: 06/23/20 12:00
Percent Solids: 95
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0915
ESS Laboratory Sample ID: 20F0915-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/26/20 12:57

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (54.4)		8082A		1000	06/30/20 10:50		DF02606
Aroclor 1221	ND (54.4)		8082A		1000	06/30/20 10:50		DF02606
Aroclor 1232	ND (54.4)		8082A		1000	06/30/20 10:50		DF02606
Aroclor 1242	ND (54.4)		8082A		1000	06/30/20 10:50		DF02606
Aroclor 1248	ND (54.4)		8082A		1000	06/30/20 10:50		DF02606
Aroclor 1254	170 (54.4)		8082A		1000	06/30/20 10:50		DF02606
Aroclor 1260	ND (54.4)		8082A		1000	06/30/20 10:50		DF02606
Aroclor 1262	ND (54.4)		8082A		1000	06/30/20 10:50		DF02606
Aroclor 1268	ND (54.4)		8082A		1000	06/30/20 10:50		DF02606

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0915

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DF02605 - 3540C

Blank

Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0246		mg/kg wet	0.02500		98	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0250		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0210		mg/kg wet	0.02500		84	30-150			

LCS

Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		93	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		99	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		94	40-140			

Surrogate: Decachlorobiphenyl	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0259		mg/kg wet	0.02500		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0219		mg/kg wet	0.02500		87	30-150			

LCS Dup

Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		89	40-140	5	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	7	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		95	40-140	3	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140	3	30	

Surrogate: Decachlorobiphenyl	0.0248		mg/kg wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0251		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.0209		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0204		mg/kg wet	0.02500		81	30-150			

Batch DF02606 - 3540C



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0915

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DF02606 - 3540C

Blank

Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0198		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0204		mg/kg wet	0.02500		82	30-150			

LCS

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		101	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		93	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		77	40-140			

Surrogate: Decachlorobiphenyl	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0224		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0221		mg/kg wet	0.02500		88	30-150			

LCS Dup

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		98	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140	0.7	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		93	40-140	0.5	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		80	40-140	3	30	

Surrogate: Decachlorobiphenyl	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0214		mg/kg wet	0.02500		86	30-150			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0915

Notes and Definitions

- U Analyte included in the analysis, but not detected
- SD Surrogate recovery(ies) diluted below the MRL (SD).
- D Diluted.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0915

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB
 Shipped/Delivered Via: ESS Courier

ESS Project ID: 20F0915
 Date Received: 6/24/2020
 Project Due Date: 7/1/2020
 Days for Project: 5 Day

1. Air bill manifest present? No
 Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
 Temp: -0.2 Iced with: Ice
5. Was COC signed and dated by client? Yes

6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. Were labs informed about short holds & rushes? Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: _____
 Analysis: _____
 TAT: _____

12. Were VOAs received? Yes / No
 a. Air bubbles in aqueous VOAs? Yes / No
 b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
 b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	58425	Yes	N/A	Yes	4 oz. Jar	NP	
2	58426	Yes	N/A	Yes	4 oz. Jar	NP	
3	58427	Yes	N/A	Yes	4 oz. Jar	NP	
4	58428	Yes	N/A	Yes	4 oz. Jar	NP	
5	58429	Yes	N/A	Yes	4 oz. Jar	NP	
6	58430	Yes	N/A	Yes	4 oz. Jar	NP	
7	58431	Yes	N/A	Yes	4 oz. Jar	NP	
8	58432	Yes	N/A	Yes	4 oz. Jar	NP	

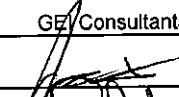
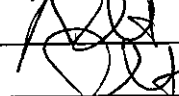
2nd Review

- Were all containers scanned into storage/lab?**
 Are barcode labels on correct containers?
 Are all Flashpoint stickers attached/container ID # circled?
 Are all Hex Chrome stickers attached?
 Are all QC stickers attached?
 Are VOA stickers attached if bubbles noted?

Initials [Signature]
 Yes / No
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA

Completed

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	<u>GEI Consultants, Inc. - TB</u>	ESS Project ID:	<u>20F0915</u>
		Date Received:	<u>6/24/2020</u>
By:		Date & Time:	<u>6/24/20 17:14</u>
Reviewed			
By:		Date & Time:	<u>6/24/20 17:57</u>
Delivered			
By:		Date & Time:	<u>6/24/20 17:57</u>

Chain-of-Custody Record

Laboratory: **ESS**

Laboratory Job # **2020 915**
(Lab use only)



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: **Former Tombarello Site**

Project Location: **Lawrence, Massachusetts**

Page 1 of 1

Project Number: **1802441**

Project Manager: **Leslie Lombardo**

Send Report and EDD to:
eastregiondata@geiconsultants.com,
llombardo@geiconsultants.com,
bfongmurdock@geiconsultants.com

Preservative

None							
------	--	--	--	--	--	--	--

Analysis

--	--	--	--	--	--	--	--

Sample Handling

Samples Field Filtered
YES NO **NA**

Sampled Shipped With Ice
YES NO

Sample Specific Remarks

MCP PRESUMPTIVE CERTAINTY REQUIRED **YES** NO

If Yes, Are MCP Analytical Methods Required? **YES** NO NA

Are Drinking Water Samples Submitted? YES **NO** NA

If Yes, Have Drinking Water Sampling Requirements Been Met? YES NO **NA**

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCB 8082													
		Date	Time																	
1	1802441-EX1-01S	6/23/2020	9:15	Soil	1	BFM	X													
2	1802441-EX1-02S	6/23/2020	9:24	Soil	1	BFM	X													
3	1802441-EX1-03S	6/23/2020	9:34	Soil	1	BFM	X													
4	1802441-EX1-04B	6/23/2020	9:52	Soil	1	BFM	X													
5	1802441-EX1-05S	6/23/2020	12:15	Soil	1	BFM	X													
6	1802441-EX1-06S	6/23/2020	12:26	Soil	1	BFM	X													
7	1802441-EX1-07B	6/23/2020	15:21	Soil	1	BFM	X													
8	1802441-FD-01	6/23/2020	12:00	Soil	1	BFM	X													

MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Turnaround Time (Business days):
Normal X Other ___
10-Day ___ 7-Day ___
5-Day ___ 3-Day ___

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Relinquished by sampler: (signature) <i>by KWD</i> 1. Brian Fong - Murdock	Date: 6/23/2020	Time: 16:30	Received by: (signature) 1. GEI Refrigerator
Relinquished by: (signature) 2. GEI Refrigerator	Date: 6-24-20	Time: 13:30	Received by: (signature) 2. Ken Dad
Relinquished by: (signature) 3. Ken Dad	Date: 6-24-20	Time: 13:35	Received by: (signature) 3. [Signature]
Relinquished by: (signature) 4. [Signature]	Date: 6/24/20	Time: 15:46	Received by: (signature) 4. [Signature]

Additional Requirements/Comments/Remarks:

Manual soxhlet extraction.



CERTIFICATE OF ANALYSIS

Leslie Lombardo
 GEI Consultants, Inc.
 400 Unicorn Park Drive
 Woburn, MA 01801

RE: Tombarello Site Investigation (1802441)
ESS Laboratory Work Order Number: 20F0952

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
 Laboratory Director

REVIEWED

By ESS Laboratory at 3:36 pm, Jul 06, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0952

SAMPLE RECEIPT

The following samples were received on June 25, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
20F0952-01	1802441-EX1-08S	Soil	8082A
20F0952-02	1802441-EX1-09S	Soil	8082A
20F0952-03	1802441-EX1-10S	Soil	8082A
20F0952-04	1802441-EX1-11S	Soil	8082A
20F0952-05	1802441-EX1-12S	Soil	8082A
20F0952-06	1802441-EX1-13B	Soil	8082A
20F0952-07	1802441-EX1-14B	Soil	8082A
20F0952-08	1802441-EX1-15B	Soil	8082A
20F0952-09	1802441-EX1-16B	Soil	8082A
20F0952-10	1802441-EX2-01S	Soil	8082A
20F0952-11	1802441-EX2-02S	Soil	8082A
20F0952-12	1802441-EX2-03S	Soil	8082A
20F0952-13	1802441-EX2-04S	Soil	8082A
20F0952-14	1802441-EX2-05S	Soil	8082A
20F0952-15	1802441-EX2-06B	Soil	8082A
20F0952-16	1802441-EX2-07B	Soil	8082A
20F0952-17	1802441-EX2-08B	Soil	8082A
20F0952-18	1802441-EX2-09B	Soil	8082A
20F0952-19	1802441-FD-02	Soil	8082A



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0952

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

- 20F0952-02 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-03 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-07 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-08 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-09 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-10 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-11 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-12 [Lower value is used due to matrix interferences \(LC\).](#)
Aroclor 1254
- 20F0952-12 [Percent difference between primary and confirmation results exceeds 40% \(P\).](#)
Aroclor 1254
- 20F0952-12 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-13 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-14 [Lower value is used due to matrix interferences \(LC\).](#)
Aroclor 1254
- 20F0952-14 [Percent difference between primary and confirmation results exceeds 40% \(P\).](#)
Aroclor 1254
- 20F0952-14 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
- 20F0952-19 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0952

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0952

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0952

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20F0952-01 through 20F0952-19**

Matrices: Ground Water/Surface Water Soil/Sediment Drinking Water Air Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|---|--|--|---|--|---|
| <input type="checkbox"/> 8260 VOC
CAM II A | <input type="checkbox"/> 7470/7471 Hg
CAM III B | <input type="checkbox"/> MassDEP VPH
(GC/PID/FID)
CAM IV A | <input checked="" type="checkbox"/> 8082 PCB
CAM V A | <input type="checkbox"/> 9014 Total
Cyanide/PAC
CAM VI A | <input type="checkbox"/> 6860 Perchlorate
CAM VIII B |
| <input type="checkbox"/> 8270 SVOC
CAM II B | <input type="checkbox"/> 7010 Metals
CAM III C | <input type="checkbox"/> MassDEP VPH
(GC/MS)
CAM IV C | <input type="checkbox"/> 8081 Pesticides
CAM V B | <input type="checkbox"/> 7196 Hex Cr
CAM VI B | <input type="checkbox"/> MassDEP APH
CAM IX A |
| <input type="checkbox"/> 6010 Metals
CAM III A | <input type="checkbox"/> 6020 Metals
CAM III D | <input type="checkbox"/> MassDEP EPH
CAM IV B | <input type="checkbox"/> 8151 Herbicides
CAM V C | <input type="checkbox"/> Explosives
CAM VIII A | <input type="checkbox"/> TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- | | | |
|---|--|---|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| D | Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| E | VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- | | | |
|---|---|---|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> * |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> * |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> * |

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: July 06, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-08S
Date Sampled: 06/24/20 11:11
Percent Solids: 94
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	06/30/20 15:53		DF02908
Aroclor 1221	ND (0.05)		8082A		1	06/30/20 15:53		DF02908
Aroclor 1232	ND (0.05)		8082A		1	06/30/20 15:53		DF02908
Aroclor 1242	2.6 (0.3)		8082A		5	07/02/20 9:27		DF02908
Aroclor 1248	ND (0.05)		8082A		1	06/30/20 15:53		DF02908
Aroclor 1254	ND (0.05)		8082A		1	06/30/20 15:53		DF02908
Aroclor 1260 [2C]	0.2 (0.05)		8082A		1	06/30/20 15:53		DF02908
Aroclor 1262	ND (0.05)		8082A		1	06/30/20 15:53		DF02908
Aroclor 1268	ND (0.05)		8082A		1	06/30/20 15:53		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	94 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	88 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	80 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	75 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
 Client Project ID: Tombarello Site Investigation
 Client Sample ID: 1802441-EX1-09S
 Date Sampled: 06/24/20 11:32
 Percent Solids: 89
 Initial Volume: 19.7
 Final Volume: 10
 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
 ESS Laboratory Sample ID: 20F0952-02
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (569)		8082A		10000	07/02/20 10:27		DF02908
Aroclor 1221	ND (569)		8082A		10000	07/02/20 10:27		DF02908
Aroclor 1232	ND (569)		8082A		10000	07/02/20 10:27		DF02908
Aroclor 1242	2830 (569)		8082A		10000	07/02/20 10:27		DF02908
Aroclor 1248	ND (569)		8082A		10000	07/02/20 10:27		DF02908
Aroclor 1254	ND (569)		8082A		10000	07/02/20 10:27		DF02908
Aroclor 1260	ND (569)		8082A		10000	07/02/20 10:27		DF02908
Aroclor 1262	ND (569)		8082A		10000	07/02/20 10:27		DF02908
Aroclor 1268	ND (569)		8082A		10000	07/02/20 10:27		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-10S
Date Sampled: 06/24/20 11:40
Percent Solids: 90
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (5.7)		8082A		100	07/02/20 10:47		DF02908
Aroclor 1221	ND (5.7)		8082A		100	07/02/20 10:47		DF02908
Aroclor 1232	ND (5.7)		8082A		100	07/02/20 10:47		DF02908
Aroclor 1242	77.6 (5.7)		8082A		100	07/02/20 10:47		DF02908
Aroclor 1248	ND (5.7)		8082A		100	07/02/20 10:47		DF02908
Aroclor 1254	ND (5.7)		8082A		100	07/02/20 10:47		DF02908
Aroclor 1260	ND (5.7)		8082A		100	07/02/20 10:47		DF02908
Aroclor 1262	ND (5.7)		8082A		100	07/02/20 10:47		DF02908
Aroclor 1268	ND (5.7)		8082A		100	07/02/20 10:47		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-11S
Date Sampled: 06/24/20 11:52
Percent Solids: 91
Initial Volume: 19.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/02/20 9:08		DF02908
Aroclor 1221	ND (0.06)		8082A		1	07/02/20 9:08		DF02908
Aroclor 1232	ND (0.06)		8082A		1	07/02/20 9:08		DF02908
Aroclor 1242	ND (0.06)		8082A		1	07/02/20 9:08		DF02908
Aroclor 1248	ND (0.06)		8082A		1	07/02/20 9:08		DF02908
Aroclor 1254	ND (0.06)		8082A		1	07/02/20 9:08		DF02908
Aroclor 1260	ND (0.06)		8082A		1	07/02/20 9:08		DF02908
Aroclor 1262	ND (0.06)		8082A		1	07/02/20 9:08		DF02908
Aroclor 1268	ND (0.06)		8082A		1	07/02/20 9:08		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	95 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	99 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	92 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	102 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-12S
Date Sampled: 06/24/20 12:01
Percent Solids: 82
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	06/30/20 17:09		DF02908
Aroclor 1221	ND (0.06)		8082A		1	06/30/20 17:09		DF02908
Aroclor 1232	ND (0.06)		8082A		1	06/30/20 17:09		DF02908
Aroclor 1242	0.9 (0.06)		8082A		1	06/30/20 17:09		DF02908
Aroclor 1248	ND (0.06)		8082A		1	06/30/20 17:09		DF02908
Aroclor 1254	ND (0.06)		8082A		1	06/30/20 17:09		DF02908
Aroclor 1260	0.5 (0.06)		8082A		1	06/30/20 17:09		DF02908
Aroclor 1262	ND (0.06)		8082A		1	06/30/20 17:09		DF02908
Aroclor 1268	ND (0.06)		8082A		1	06/30/20 17:09		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	110 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	102 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	77 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	94 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-13B
Date Sampled: 06/24/20 12:12
Percent Solids: 89
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	06/30/20 17:28		DF02908
Aroclor 1221	ND (0.06)		8082A		1	06/30/20 17:28		DF02908
Aroclor 1232	ND (0.06)		8082A		1	06/30/20 17:28		DF02908
Aroclor 1242	0.2 (0.06)		8082A		1	06/30/20 17:28		DF02908
Aroclor 1248	ND (0.06)		8082A		1	06/30/20 17:28		DF02908
Aroclor 1254	ND (0.06)		8082A		1	06/30/20 17:28		DF02908
Aroclor 1260	ND (0.06)		8082A		1	06/30/20 17:28		DF02908
Aroclor 1262	ND (0.06)		8082A		1	06/30/20 17:28		DF02908
Aroclor 1268	ND (0.06)		8082A		1	06/30/20 17:28		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	92 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	87 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	86 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-14B
Date Sampled: 06/24/20 12:24
Percent Solids: 91
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (11.4)		8082A		200	07/02/20 11:07		DF02908
Aroclor 1221	ND (11.4)		8082A		200	07/02/20 11:07		DF02908
Aroclor 1232	ND (11.4)		8082A		200	07/02/20 11:07		DF02908
Aroclor 1242	91.2 (11.4)		8082A		200	07/02/20 11:07		DF02908
Aroclor 1248	ND (11.4)		8082A		200	07/02/20 11:07		DF02908
Aroclor 1254	ND (11.4)		8082A		200	07/02/20 11:07		DF02908
Aroclor 1260 [2C]	ND (11.4)		8082A		200	07/02/20 11:07		DF02908
Aroclor 1262	ND (11.4)		8082A		200	07/02/20 11:07		DF02908
Aroclor 1268	ND (11.4)		8082A		200	07/02/20 11:07		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
 Client Project ID: Tombarello Site Investigation
 Client Sample ID: 1802441-EX1-15B
 Date Sampled: 06/24/20 12:33
 Percent Solids: 86
 Initial Volume: 20
 Final Volume: 10
 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
 ESS Laboratory Sample ID: 20F0952-08
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (2.9)		8082A		50	07/02/20 11:27		DF02908
Aroclor 1221	ND (2.9)		8082A		50	07/02/20 11:27		DF02908
Aroclor 1232	ND (2.9)		8082A		50	07/02/20 11:27		DF02908
Aroclor 1242	39.0 (2.9)		8082A		50	07/02/20 11:27		DF02908
Aroclor 1248	ND (2.9)		8082A		50	07/02/20 11:27		DF02908
Aroclor 1254	ND (2.9)		8082A		50	07/02/20 11:27		DF02908
Aroclor 1260 [2C]	3.2 (2.9)		8082A		50	07/02/20 11:27		DF02908
Aroclor 1262	ND (2.9)		8082A		50	07/02/20 11:27		DF02908
Aroclor 1268	ND (2.9)		8082A		50	07/02/20 11:27		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX1-16B
Date Sampled: 06/24/20 12:44
Percent Solids: 86
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (1.2)		8082A		20	07/02/20 15:42		DF02908
Aroclor 1221	ND (1.2)		8082A		20	07/02/20 15:42		DF02908
Aroclor 1232	ND (1.2)		8082A		20	07/02/20 15:42		DF02908
Aroclor 1242	11.4 (1.2)		8082A		20	07/02/20 15:42		DF02908
Aroclor 1248	ND (1.2)		8082A		20	07/02/20 15:42		DF02908
Aroclor 1254	ND (1.2)		8082A		20	07/02/20 15:42		DF02908
Aroclor 1260	ND (1.2)		8082A		20	07/02/20 15:42		DF02908
Aroclor 1262	ND (1.2)		8082A		20	07/02/20 15:42		DF02908
Aroclor 1268	ND (1.2)		8082A		20	07/02/20 15:42		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX2-01S
Date Sampled: 06/24/20 13:51
Percent Solids: 87
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (57.7)		8082A		1000	07/02/20 11:46		DF02908
Aroclor 1221	ND (57.7)		8082A		1000	07/02/20 11:46		DF02908
Aroclor 1232	ND (57.7)		8082A		1000	07/02/20 11:46		DF02908
Aroclor 1242	ND (57.7)		8082A		1000	07/02/20 11:46		DF02908
Aroclor 1248	ND (57.7)		8082A		1000	07/02/20 11:46		DF02908
Aroclor 1254 [2C]	252 (57.7)		8082A		1000	07/02/20 11:46		DF02908
Aroclor 1260 [2C]	376 (57.7)		8082A		1000	07/02/20 11:46		DF02908
Aroclor 1262	ND (57.7)		8082A		1000	07/02/20 11:46		DF02908
Aroclor 1268	ND (57.7)		8082A		1000	07/02/20 11:46		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX2-02S
Date Sampled: 06/24/20 14:02
Percent Solids: 97
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (51.3)		8082A		1000	07/02/20 12:06		DF02908
Aroclor 1221	ND (51.3)		8082A		1000	07/02/20 12:06		DF02908
Aroclor 1232	ND (51.3)		8082A		1000	07/02/20 12:06		DF02908
Aroclor 1242	ND (51.3)		8082A		1000	07/02/20 12:06		DF02908
Aroclor 1248	ND (51.3)		8082A		1000	07/02/20 12:06		DF02908
Aroclor 1254	ND (51.3)		8082A		1000	07/02/20 12:06		DF02908
Aroclor 1260 [2C]	125 (51.3)		8082A		1000	07/02/20 12:06		DF02908
Aroclor 1262	ND (51.3)		8082A		1000	07/02/20 12:06		DF02908
Aroclor 1268	ND (51.3)		8082A		1000	07/02/20 12:06		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX2-03S
Date Sampled: 06/24/20 14:11
Percent Solids: 90
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (5.6)		8082A		100	07/02/20 12:26		DF02908
Aroclor 1221	ND (5.6)		8082A		100	07/02/20 12:26		DF02908
Aroclor 1232	ND (5.6)		8082A		100	07/02/20 12:26		DF02908
Aroclor 1242	ND (5.6)		8082A		100	07/02/20 12:26		DF02908
Aroclor 1248	ND (5.6)		8082A		100	07/02/20 12:26		DF02908
Aroclor 1254	P, LC 21.7 (5.6)		8082A		100	07/02/20 12:26		DF02908
Aroclor 1260	44.6 (5.6)		8082A		100	07/02/20 12:26		DF02908
Aroclor 1262	ND (5.6)		8082A		100	07/02/20 12:26		DF02908
Aroclor 1268	ND (5.6)		8082A		100	07/02/20 12:26		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX2-04S
Date Sampled: 06/24/20 14:20
Percent Solids: 90
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (55.6)		8082A		1000	07/02/20 12:46		DF02908
Aroclor 1221	ND (55.6)		8082A		1000	07/02/20 12:46		DF02908
Aroclor 1232	ND (55.6)		8082A		1000	07/02/20 12:46		DF02908
Aroclor 1242	ND (55.6)		8082A		1000	07/02/20 12:46		DF02908
Aroclor 1248	ND (55.6)		8082A		1000	07/02/20 12:46		DF02908
Aroclor 1254	ND (55.6)		8082A		1000	07/02/20 12:46		DF02908
Aroclor 1260 [2C]	102 (55.6)		8082A		1000	07/02/20 12:46		DF02908
Aroclor 1262	ND (55.6)		8082A		1000	07/02/20 12:46		DF02908
Aroclor 1268	ND (55.6)		8082A		1000	07/02/20 12:46		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX2-05S
Date Sampled: 06/24/20 14:30
Percent Solids: 76
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (3.3)		8082A		50	07/02/20 13:06		DF02908
Aroclor 1221	ND (3.3)		8082A		50	07/02/20 13:06		DF02908
Aroclor 1232	ND (3.3)		8082A		50	07/02/20 13:06		DF02908
Aroclor 1242	ND (3.3)		8082A		50	07/02/20 13:06		DF02908
Aroclor 1248	ND (3.3)		8082A		50	07/02/20 13:06		DF02908
Aroclor 1254	P, LC 12.5 (3.3)		8082A		50	07/02/20 13:06		DF02908
Aroclor 1260	25.6 (3.3)		8082A		50	07/02/20 13:06		DF02908
Aroclor 1262	ND (3.3)		8082A		50	07/02/20 13:06		DF02908
Aroclor 1268	ND (3.3)		8082A		50	07/02/20 13:06		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
 Client Project ID: Tombarello Site Investigation
 Client Sample ID: 1802441-EX2-06B
 Date Sampled: 06/24/20 14:48
 Percent Solids: 78
 Initial Volume: 19.5
 Final Volume: 10
 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
 ESS Laboratory Sample ID: 20F0952-15
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.07)		8082A		1	06/30/20 20:19		DF02908
Aroclor 1221	ND (0.07)		8082A		1	06/30/20 20:19		DF02908
Aroclor 1232	ND (0.07)		8082A		1	06/30/20 20:19		DF02908
Aroclor 1242	0.1 (0.07)		8082A		1	06/30/20 20:19		DF02908
Aroclor 1248	ND (0.07)		8082A		1	06/30/20 20:19		DF02908
Aroclor 1254	ND (0.07)		8082A		1	06/30/20 20:19		DF02908
Aroclor 1260	0.3 (0.07)		8082A		1	06/30/20 20:19		DF02908
Aroclor 1262	ND (0.07)		8082A		1	06/30/20 20:19		DF02908
Aroclor 1268	ND (0.07)		8082A		1	06/30/20 20:19		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	102 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	93 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	97 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	99 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX2-07B
Date Sampled: 06/24/20 14:58
Percent Solids: 81
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	06/30/20 20:37		DF02908
Aroclor 1221	ND (0.06)		8082A		1	06/30/20 20:37		DF02908
Aroclor 1232	ND (0.06)		8082A		1	06/30/20 20:37		DF02908
Aroclor 1242	ND (0.06)		8082A		1	06/30/20 20:37		DF02908
Aroclor 1248	ND (0.06)		8082A		1	06/30/20 20:37		DF02908
Aroclor 1254	ND (0.06)		8082A		1	06/30/20 20:37		DF02908
Aroclor 1260	ND (0.06)		8082A		1	06/30/20 20:37		DF02908
Aroclor 1262	ND (0.06)		8082A		1	06/30/20 20:37		DF02908
Aroclor 1268	ND (0.06)		8082A		1	06/30/20 20:37		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>108 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>95 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>104 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>110 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX2-08B
Date Sampled: 06/24/20 15:06
Percent Solids: 76
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.07)		8082A		1	06/30/20 20:56		DF02908
Aroclor 1221	ND (0.07)		8082A		1	06/30/20 20:56		DF02908
Aroclor 1232	ND (0.07)		8082A		1	06/30/20 20:56		DF02908
Aroclor 1242 [2C]	ND (0.07)		8082A		1	06/30/20 20:56		DF02908
Aroclor 1248	ND (0.07)		8082A		1	06/30/20 20:56		DF02908
Aroclor 1254	ND (0.07)		8082A		1	06/30/20 20:56		DF02908
Aroclor 1260	0.6 (0.07)		8082A		1	06/30/20 20:56		DF02908
Aroclor 1262	ND (0.07)		8082A		1	06/30/20 20:56		DF02908
Aroclor 1268	ND (0.07)		8082A		1	06/30/20 20:56		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	113 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	98 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	98 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	108 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX2-09B
Date Sampled: 06/24/20 15:16
Percent Solids: 78
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.07)		8082A		1	06/30/20 23:09		DF02908
Aroclor 1221	ND (0.07)		8082A		1	06/30/20 23:09		DF02908
Aroclor 1232	ND (0.07)		8082A		1	06/30/20 23:09		DF02908
Aroclor 1242	ND (0.07)		8082A		1	06/30/20 23:09		DF02908
Aroclor 1248	ND (0.07)		8082A		1	06/30/20 23:09		DF02908
Aroclor 1254	ND (0.07)		8082A		1	06/30/20 23:09		DF02908
Aroclor 1260	0.2 (0.07)		8082A		1	06/30/20 23:09		DF02908
Aroclor 1262	ND (0.07)		8082A		1	06/30/20 23:09		DF02908
Aroclor 1268	ND (0.07)		8082A		1	06/30/20 23:09		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	108 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	98 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	98 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	110 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-FD-02
Date Sampled: 06/24/20 12:00
Percent Solids: 81
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F0952
ESS Laboratory Sample ID: 20F0952-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/29/20 11:33

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (3.2)		8082A		50	07/02/20 13:25		DF02908
Aroclor 1221	ND (3.2)		8082A		50	07/02/20 13:25		DF02908
Aroclor 1232	ND (3.2)		8082A		50	07/02/20 13:25		DF02908
Aroclor 1242	ND (3.2)		8082A		50	07/02/20 13:25		DF02908
Aroclor 1248	ND (3.2)		8082A		50	07/02/20 13:25		DF02908
Aroclor 1254 [2C]	12.2 (3.2)		8082A		50	07/02/20 13:25		DF02908
Aroclor 1260	17.0 (3.2)		8082A		50	07/02/20 13:25		DF02908
Aroclor 1262	ND (3.2)		8082A		50	07/02/20 13:25		DF02908
Aroclor 1268	ND (3.2)		8082A		50	07/02/20 13:25		DF02908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	%	SD	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	%	SD	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	%	SD	30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0952

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DF02908 - 3540C

Blank

Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0277		mg/kg wet	0.02500		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0251		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0269		mg/kg wet	0.02500		108	30-150			

LCS

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		104	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		100	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		100	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		96	40-140			

Surrogate: Decachlorobiphenyl	0.0272		mg/kg wet	0.02500		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0248		mg/kg wet	0.02500		99	30-150			
Surrogate: Tetrachloro-m-xylene	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0255		mg/kg wet	0.02500		102	30-150			

LCS Dup

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		106	40-140	2	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		101	40-140	1	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		103	40-140	3	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		99	40-140	3	30	

Surrogate: Decachlorobiphenyl	0.0281		mg/kg wet	0.02500		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0257		mg/kg wet	0.02500		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.0241		mg/kg wet	0.02500		96	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0262		mg/kg wet	0.02500		105	30-150			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0952

Notes and Definitions

- U Analyte included in the analysis, but not detected
- SD Surrogate recovery(ies) diluted below the MRL (SD).
- P Percent difference between primary and confirmation results exceeds 40% (P).
- LC Lower value is used due to matrix interferences (LC).
- D Diluted.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F0952

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20F0952

Date Received: 6/25/2020

Shipped/Delivered Via: ESS Courier

Project Due Date: 7/2/2020

Days for Project: 5 Day

1. Air bill manifest present? No
Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
Temp: 0.3 Iced with: Ice
5. Was COC signed and dated by client? Yes

6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. Were labs informed about short holds & rushes? Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes No
ESS Sample IDs: _____
Analysis: _____
TAT: _____

12. Were VOAs received? Yes / No
a. Air bubbles in aqueous VOAs? Yes / No
b. Does methanol cover soil completely? Yes / No

13. Are the samples properly preserved? Yes / No
a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
a. Was there a need to contact the client? Yes / No
Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	58838	Yes	N/A	Yes	4 oz. Jar	NP	
2	58839	Yes	N/A	Yes	4 oz. Jar	NP	
3	58840	Yes	N/A	Yes	4 oz. Jar	NP	
4	58841	Yes	N/A	Yes	4 oz. Jar	NP	
5	58842	Yes	N/A	Yes	4 oz. Jar	NP	
6	58843	Yes	N/A	Yes	4 oz. Jar	NP	
7	58844	Yes	N/A	Yes	4 oz. Jar	NP	
8	58845	Yes	N/A	Yes	4 oz. Jar	NP	
9	58846	Yes	N/A	Yes	4 oz. Jar	NP	
10	58847	Yes	N/A	Yes	4 oz. Jar	NP	
11	58848	Yes	N/A	Yes	4 oz. Jar	NP	
12	58849	Yes	N/A	Yes	4 oz. Jar	NP	
13	58850	Yes	N/A	Yes	4 oz. Jar	NP	
14	58851	Yes	N/A	Yes	4 oz. Jar	NP	
15	58852	Yes	N/A	Yes	4 oz. Jar	NP	
16	58853	Yes	N/A	Yes	4 oz. Jar	NP	
17	58854	Yes	N/A	Yes	4 oz. Jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20F0952

Date Received: 6/25/2020

18	58855	Yes	N/A	Yes	4 oz. Jar	NP
19	58856	Yes	N/A	Yes	4 oz. Jar	NP

2nd Review

Were all containers scanned into storage/lab?

Are barcode labels on correct containers?

Are all Flashpoint stickers attached/container ID # circled?

Are all Hex Chrome stickers attached?

Are all QC stickers attached?

Are VOA stickers attached if bubbles noted?

Initials

[Handwritten Initials]

Yes / No

Yes / No / NA

Yes / No / NA

Yes / No / NA

Yes / No / NA

Completed

By:

[Handwritten Signature]

Date & Time:

6/25/20 1745

Reviewed

By:

[Handwritten Signature]

Date & Time:

6/25/20 1749

Delivered

By:

[Handwritten Signature]

Date & Time:

6/25/20 1749



400 Unicorn Park Drive
 Woburn, MA 01801
 PH: 781.721.4000
 FX: 781.721.4073

Project Information

Project Name: Former Tombarello Site Project Location: Lawrence, Massachusetts
 Project Number: 1802441 Project Manager: Leslie Lombardo
 Send Report and EDD to:
 eastregiondata@geiconsultants.com,
 llombardo@geiconsultants.com,
 bfgongmurdock@geiconsultants.com

Page 1 of 2

MCP PRESUMPTIVE CERTAINTY REQUIRED - YES NO
 If Yes, Are MCP Analytical Methods Required? YES NO NA
 Are Drinking Water Samples Submitted? YES NO NA
 If Yes, Have Drinking Water Sampling Requirements Been Met? YES NO NA

Preservative							
None							
Analysis							

Sample Handling
 Samples Field Filtered
 YES NO **NA**
 Sampled Shipped With Ice
YES NO

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCB 8082											
		Date	Time															
1	1802441-EX1-08S	6/24/2020	11:11	Soil	1	BFM	X											
2	1802441-EX1-09S	6/24/2020	11:32	Soil	1	BFM	X											
3	1802441-EX1-10S	6/24/2020	11:40	Soil	1	BFM	X											
4	1802441-EX1-11S	6/24/2020	11:52	Soil	1	BFM	X											
5	1802441-EX1-12S	6/24/2020	12:01	Soil	1	BFM	X											
6	1802441-EX1-13B	6/24/2020	12:12	Soil	1	BFM	X											
7	1802441-EX1-14B	6/24/2020	12:24	Soil	1	BFM	X											
8	1802441-EX1-15B	6/24/2020	12:33	Soil	1	BFM	X											
9	1802441-EX1-16B	6/24/2020	12:44	Soil	1	BFM	X											

MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Turnaround Time (Business days):
 Normal X Other ____
 10-Day ____ 7-Day ____
 5-Day ____ 3-Day ____

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Relinquished by: (signature)	Date:	Time:	Received by: (signature)
<i>[Signature]</i>	6/24/2020	17:15	1. GEI Refrigerator
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
<i>[Signature]</i>	6/25/20	10:25	2. <i>[Signature]</i>
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
<i>[Signature]</i>	6/25/20	10:25	3. <i>[Signature]</i>
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
<i>[Signature]</i>	6/25/20	15:58	4. <i>[Signature]</i>

Additional Requirements/Comments/Remarks:
 Manual soxhlet extraction.

Chain-of-Custody Record

Laboratory: **ESS**

Laboratory Job #

(Lab use only)

201952



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Former Tombarello Site

Project Location: Lawrence, Massachusetts

Project Number: 1802441

Project Manager: Leslie Lombardo

Send Report and EDD to:
eastregiondata@geiconsultants.com,
llombardo@geiconsultants.com,
bfongmurdock@geiconsultants.com

Page 2 of 2

Preservative

None							
------	--	--	--	--	--	--	--

Analysis

PCB 8082							

Sample Handling

Samples Field Filtered

YES NO NA

Sampled Shipped With Ice

YES NO

Sample Specific Remarks

MCP PRESUMPTIVE CERTAINTY REQUIRED YES NO

If Yes, Are MCP Analytical Methods Required?

YES NO NA

Are Drinking Water Samples Submitted?

YES NO NA

If Yes, Have Drinking Water Sampling Requirements Been Met?

YES NO NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials						
		Date	Time									
<i>10</i>	1802441-EX2-01S	6/24/2020	13:51	Soil	1	BFM	X					
<i>11</i>	1802441-EX2-02S	6/24/2020	14:02	Soil	1	BFM	X					
<i>12</i>	1802441-EX2-03S	6/24/2020	14:11	Soil	1	BFM	X					
<i>13</i>	1802441-EX2-04S	6/24/2020	14:20	Soil	1	BFM	X					
<i>14</i>	1802441-EX2-05S	6/24/2020	14:30	Soil	1	BFM	X					
<i>15</i>	1802441-EX2-06B	6/24/2020	14:48	Soil	1	BFM	X					
<i>16</i>	1802441-EX2-07B	6/24/2020	14:58	Soil	1	BFM	X					
<i>17</i>	1802441-EX2-08B	6/24/2020	15:06	Soil	1	BFM	X					
<i>18</i>	1802441-EX2-09B	6/24/2020	15:16	Soil	1	BFM	X					
<i>19</i>	1802441-FD-02	6/24/2020	12:00	Soil	1	BFM	X					

MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Turnaround Time (Business days):

Normal Other
10-Day 7-Day
5-Day 3-Day

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Relinquished by sampler: (signature)	Date:	Time:	Received by: (signature)
<i>[Signature]</i>	6/24/2020	17:15	1. GEI Refrigerator
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
2. GEI Refrigerator	6/25/20	10:25	2. <i>Crad Fugic</i>
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
3. <i>Crad Fugic</i>	6/25/20	10:25	3. <i>[Signature]</i>
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
4. <i>[Signature]</i>	6/25/20	15:58	4. <i>[Signature]</i>

Manual soxhlet extraction.



CERTIFICATE OF ANALYSIS

Leslie Lombardo
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

RE: Tombarello Site Investigation (1802441)
ESS Laboratory Work Order Number: 20F1012

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 4:32 pm, Jul 06, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1012

SAMPLE RECEIPT

The following samples were received on June 26, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
20F1012-01	1802441-EX2-10B	Soil	8082A



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1012

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1012

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1012

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20F1012-01**

Matrices: () Ground Water/Surface Water Soil/Sediment () Drinking Water () Air () Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|---|--|--|---|--|---|
| <input type="checkbox"/> 8260 VOC
CAM II A | <input type="checkbox"/> 7470/7471 Hg
CAM III B | <input type="checkbox"/> MassDEP VPH
(GC/PID/FID)
CAM IV A | <input checked="" type="checkbox"/> 8082 PCB
CAM V A | <input type="checkbox"/> 9014 Total
Cyanide/PAC
CAM VI A | <input type="checkbox"/> 6860 Perchlorate
CAM VIII B |
| <input type="checkbox"/> 8270 SVOC
CAM II B | <input type="checkbox"/> 7010 Metals
CAM III C | <input type="checkbox"/> MassDEP VPH
(GC/MS)
CAM IV C | <input type="checkbox"/> 8081 Pesticides
CAM V B | <input type="checkbox"/> 7196 Hex Cr
CAM VI B | <input type="checkbox"/> MassDEP APH
CAM IX A |
| <input type="checkbox"/> 6010 Metals
CAM III A | <input type="checkbox"/> 6020 Metals
CAM III D | <input type="checkbox"/> MassDEP EPH
CAM IV B | <input type="checkbox"/> 8151 Herbicides
CAM V C | <input type="checkbox"/> Explosives
CAM VIII A | <input type="checkbox"/> TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- | | | |
|---|---|--|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes <input checked="" type="checkbox"/> No () |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | Yes <input checked="" type="checkbox"/> No () |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | Yes <input checked="" type="checkbox"/> No () |
| D | Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | Yes <input checked="" type="checkbox"/> No () |
| E | VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | Yes () No () |
| | b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | Yes () No () |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | Yes <input checked="" type="checkbox"/> No () |

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- | | | |
|---|---|---|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350. | Yes <input checked="" type="checkbox"/> No ()* |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | Yes <input checked="" type="checkbox"/> No ()* |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | Yes <input checked="" type="checkbox"/> No ()* |

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: July 06, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-EX2-10B
Date Sampled: 06/25/20 07:14
Percent Solids: 77
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20F1012
ESS Laboratory Sample ID: 20F1012-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 6/30/20 12:43

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.07)		8082A		1	07/02/20 13:04	D0G0002	DF03004
Aroclor 1221	ND (0.07)		8082A		1	07/02/20 13:04	D0G0002	DF03004
Aroclor 1232	ND (0.07)		8082A		1	07/02/20 13:04	D0G0002	DF03004
Aroclor 1242	ND (0.07)		8082A		1	07/02/20 13:04	D0G0002	DF03004
Aroclor 1248	ND (0.07)		8082A		1	07/02/20 13:04	D0G0002	DF03004
Aroclor 1254	ND (0.07)		8082A		1	07/02/20 13:04	D0G0002	DF03004
Aroclor 1260	ND (0.07)		8082A		1	07/02/20 13:04	D0G0002	DF03004
Aroclor 1262	ND (0.07)		8082A		1	07/02/20 13:04	D0G0002	DF03004
Aroclor 1268	ND (0.07)		8082A		1	07/02/20 13:04	D0G0002	DF03004

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>101 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>98 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>88 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>95 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1012

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

8082A Polychlorinated Biphenyls (PCB)

Batch DF03004 - 3540C

Blank

Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0256		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0266		mg/kg wet	0.02500		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0225		mg/kg wet	0.02500		90	30-150			

LCS

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		99	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		98	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		106	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		103	40-140			

Surrogate: Decachlorobiphenyl	0.0267		mg/kg wet	0.02500		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0277		mg/kg wet	0.02500		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.0229		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0223		mg/kg wet	0.02500		89	30-150			

LCS Dup

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		96	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		92	40-140	6	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		102	40-140	4	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		99	40-140	4	30	

Surrogate: Decachlorobiphenyl	0.0256		mg/kg wet	0.02500		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0265		mg/kg wet	0.02500		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0213		mg/kg wet	0.02500		85	30-150			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1012

Notes and Definitions

- U Analyte included in the analysis, but not detected
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20F1012

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB
 Shipped/Delivered Via: ESS Courier

ESS Project ID: 20F1012
 Date Received: 6/26/2020
 Project Due Date: 7/3/2020
 Days for Project: 5 Day

- 1. Air bill manifest present? No
Air No.: NA
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
Temp: 3.6 Iced with: Ice
- 5. Was COC signed and dated by client? Yes

- 6. Does COC match bottles? Yes
- 7. Is COC complete and correct? Yes
- 8. Were samples received intact? Yes
- 9. Were labs informed about **short holds & rushes**? Yes / No NA
- 10. Were any analyses received outside of hold time? Yes No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: _____
 Analysis: _____
 TAT: _____

12. Were VOAs received? Yes / No
 a. Air bubbles in aqueous VOAs? Yes / No
 b. Does methanol cover soil completely? Yes / No

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
 b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	59599	Yes	N/A	Yes	4 oz. Jar	NP	

2nd Review

Were all containers scanned into storage/lab? Initials AG

- Are barcode labels on correct containers? Yes / No
- Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA
- Are all Hex Chrome stickers attached? Yes / No / NA
- Are all QC stickers attached? Yes / No / NA
- Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: Amber Garcia Date & Time: 6/26/20 17:51
 Reviewed By: [Signature] Date & Time: 6/26/20 17:57
 Delivered By: [Signature] Date & Time: 6/26/20 17:57



400 Unicorn Park Drive
 Woburn, MA 01801
 PH: 781.721.4000
 FX: 781.721.4073

Project Information

Project Name: Former Tombarello Site Project Location: Lawrence, Massachusetts
 Project Number: 1802441 Project Manager: Leslie Lombardo

Page 1 of 1

Send Report and EDD to:
 eastregiondata@geiconsultants.com,
 llombardo@geiconsultants.com,
 bfongmurdock@geiconsultants.com

Preservative							
None							
Analysis							

Sample Handling

Samples Field Filtered

YES NO **NA**

Sampled Shipped With Ice

YES NO

Sample Specific Remarks

MCP PRESUMPTIVE CERTAINTY REQUIRED **YES** NO
 If Yes, Are MCP Analytical Methods Required? **YES** NO NA
 Are Drinking Water Samples Submitted? YES **NO** NA
 If Yes, Have Drinking Water Sampling Requirements Been Met? YES NO **NA**

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCB 8082	Analysis								Sample Specific Remarks	
		Date	Time														
1	1802441-Ex2-108	6/25/20	0714	SOIL	1	BFM	X										

MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Relinquished by sampler: (signature)	Date: 6/25/20	Time: 1614	Received by: (signature)
1. [Signature]			1. GEI Refrigerator
Relinquished by: (signature)	Date: 6-26-20	Time: 1350	Received by: (signature)
2. [Signature]			2. Len Dad
Relinquished by: (signature)	Date: 6-26-20	Time: 1255	Received by: (signature)
3. [Signature]			3. [Signature]
Relinquished by: (signature)	Date: 6/26/20	Time: 17:22	Received by: (signature)
4. [Signature]			4. Amber Garcia

Turnaround Time (Business days):
 Normal X Other _____
 10-Day _____ 7-Day _____
 5-Day _____ 3-Day _____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:
 Manual soxhlet extraction.

Work-Zone PCB Sample



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Leslie Lombardo**
GEI Consultants, Inc.
400 Unicorn Park Drive

6/30/2020

Woburn, MA 01801

Phone: (781) 721-4098

Fax: (781) 721-4073

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/25/2020. The results are tabulated on the attached data pages for the following client designated project:

Former Tombarello

The reference number for these samples is EMSL Order #012006391. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry Laboratory
Director



AIHA-LAP, LLC-IHLAP Lab # 100194
NELAP Certification: NJ 03036; NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012006391

CustomerID: GEIC80

CustomerPO:

ProjectID:

Attn: **Leslie Lombardo**
GEI Consultants, Inc.
400 Unicorn Park Drive

Phone: (781) 721-4098
 Fax: (781) 721-4073
 Received: 06/25/20 9:00 AM

Woburn, MA 01801Project: **Former Tombarello****Analytical Results**

Client Sample Description 1802441-W21 **Collected:** 6/24/2020 **Lab ID:** 012006391-0001
 Lawrence

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA						
5503 Modified	Aroclor-1016	ND	0.00026	mg/m ³	6/25/2020 RS	6/26/2020 EH
5503 Modified	Aroclor-1221	ND	0.00026	mg/m ³	6/25/2020 RS	6/26/2020 EH
5503 Modified	Aroclor-1232	ND	0.00026	mg/m ³	6/25/2020 RS	6/26/2020 EH
5503 Modified	Aroclor-1242	ND	0.00026	mg/m ³	6/25/2020 RS	6/26/2020 EH
5503 Modified	Aroclor-1248	ND	0.00026	mg/m ³	6/25/2020 RS	6/26/2020 EH
5503 Modified	Aroclor-1254	ND	0.00026	mg/m ³	6/25/2020 RS	6/26/2020 EH
5503 Modified	Aroclor-1260	ND	0.00026	mg/m ³	6/25/2020 RS	6/26/2020 EH
5503 Modified	Aroclor-1262	ND	0.00026	mg/m ³	6/25/2020 RS	6/26/2020 EH
5503 Modified	Aroclor-1268	ND	0.00026	mg/m ³	6/25/2020 RS	6/26/2020 EH

Definitions:

- MDL - method detection limit
- J - Result was below the reporting limit, but at or above the MDL
- ND - indicates that the analyte was not detected at the reporting limit
- RL - Reporting Limit (Analytical)
- D - Dilution Sample required a dilution which was used to calculate final results

MassDEP RTN 3-18126
RAM Completion Report for Targeted Excavations,
Lots 1 and 2
Former Tombarello Site
207 Marston Street, Lawrence, Massachusetts
October 2020

Appendix C

**MassDEP BOL, LSP Opinion Letter, and Summary of Shipment
(Lot 1 Soil and Asphalt)**



BILL OF LADING (pursuant to 310 CMR 40.0030)

3 - 18126

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

1. Release Name/Location Aid: TOMBARELLO AND SONS INC HOFMAN AVE
2. Street Address: 207 MARSTON ST
3. City/Town: LAWRENCE 4. Zip Code: 018410000
5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.
 a. Tier I b. Tier ID c. Tier II

B. THIS FORM IS BEING USED TO: (check one: B1-B4):

1. Submit a **Bill of Lading (BOL)** to transport Remediation Waste to Temporary Storage or a Receiving Facility.
Response Actions associated with this BOL (check all that apply):
 a. Immediate Response Action (IRA) e. Comprehensive Response Actions
 b. Release Abatement Measure (RAM) f. Limited Removal Action (LRA): (must be retained pursuant to 310 CMR 40.0034(6); can't be submitted via eDEP)
 c. Downgradient Property Status (DPS) g. Other _____
 d. Utility Release Abatement Measure (URAM)
2. Submit an Attestation of Completion of **Shipment to Temporary Storage** (Sections C, F and J are not required):
3. Submit an Attestation of **Completion of Shipment to a Receiving Facility** (Sections C, F and J are not required):
4. Certify that Remediation Waste Was **Not Shipped, and the Bill of Lading is Void**. (Sections C, D, E, and F are not required)
5. Date Bill of Lading submitted to the Department: _____ b. eDEP Transaction ID: _____
(mm/dd/yyyy)
6. Period of Generation Associated with this Bill of Lading 6/29/2020 to 8/31/2020
(mm/dd/yyyy) (mm/dd/yyyy)

(All sections of this transmittal form must be filled out unless otherwise noted above)

The Bill of Lading is not considered complete until the Attestation of Completion of Shipment is received by the Department.

C. DESCRIPTION OF WASTE AND WASTE SOURCE:

1. Contaminated Media/Debris (check all that apply):
 a. Soil b. Groundwater c. Surface Water d. Sediment e. Vegetation or Organic Debris
 f. Demolition/Construction Waste g. Inorganic Absorbent Materials h. Other: ASPHALT PAVEMENT
2. Uncontainerized Waste (check all that apply):
 a. Inorganic Absorbent Materials b. Other: _____



BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

3 - 18126

C. DESCRIPTION OF WASTE AND WASTE SOURCE (cont.):

3. Containerized Waste (check all that apply):

- a. Tank Bottoms/Sludges
- b. Containers
- c. Drums
- d. Engineered Impoundments

e. Other: _____

4. Estimated Quantity: 417

- Tons
- Cu. Yds.
- Gallons

5. Contaminant Source (check one):

- a. Transportation Accident
- b. Underground Storage Tank
- c. Brownfields Redevelopment

d. Other: _____

6. Type of Contaminant (check all that apply):

- a. Gasoline
- b. Diesel Fuel
- c. #2 Fuel Oil
- d. #4 Fuel Oil
- e. #6 Fuel Oil
- f. Jet Fuel

g. Waste Oil h. Kerosene i. Chlorinated Solvents j. Urban Fill k. Other: _____

7. Constituents of Concern (check all that apply):

- a. As
- b. Cd
- c. Cr
- d. Pb
- e. Hg
- f. EPH/TPH
- g. VPH

h. PCBs i. VOCs j. SVOCs k. Other: _____

8. If applicable, check the box for the Reportable Concentration Category of the site:

- a. RCS-1
- b. RCS-2
- c. RCGW-1
- d. RCGW-2

9. Remediation Waste Characterization Documentation (check at least one):

- a. Site History Information
- b. Sampling Analytical Methods and Procedures
- c. Laboratory Data

d. Field Screening Data e. Characterization Documentation previously submitted to the Department

i. Date submitted: _____

ii. Type of Documentation: _____

(mm/dd/yyyy)

D. TRANSPORTER OR COMMON CARRIER INFORMATION:

1. Transporter/Common Carrier Name: W.L. FRENCH EXCAVATING CORP.

2. Contact First Name: DAN

3. Last Name: WALSH

4. Street: 14 STERLING ROAD

5. Title: SR. ENVIRONMENTAL PROJECT MANAGE

6. City/Town: BILLERICA

7. State: MA

8. Zip Code: 018620000

9. Telephone: 9786002106

10. Ext: _____

11. Email: dwalsh@wlfrench.com



BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

3 - 18126

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

1. Operator/Facility Name: WASTE MANAGEMENT OF NH (TREE)

2. Contact First Name: ELLEN 3. Last Name: BELLIO

4. Street: 90 ROCHESTER NECK ROAD 5. Title: SR. MGR. WASTE APPROVALS

6. City/Town: ROCHESTER 7. State: NH 8. Zip Code: 038397065

9. Telephone: 8009634776 10. Ext: _____ 11. Email: EBELLIO@WM.COM

12. Type of facility: (check one)

a. Temporary Storage i. Period of Temporary Storage _____ to _____
(mm/dd/yyyy) (mm/dd/yyyy)

ii. Reason for Temporary Storage: _____

b. Asphalt Batch/Hot Mix c. Landfill/Disposal d. Landfill/Structural Fill e. Landfill/Daily Cover

f. Asphalt Batch/Cold Mix g. Thermal Processing h. Incinerator i. Other: _____

13. Division of Hazardous Waste/Class A Permit Number: _____

14. Division of Solid Waste Permit Number: DES-SW-SP-95-001

15. EPA Identification Number: _____

F. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this submittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief, the assessment action(s) undertaken to characterize the Remediation Waste which is (are) the subject of this submittal for acceptance at the facility identified in this submittal comply with applicable provisions of 310 CMR 40.0000, and such facility is permitted to accept Remediation Waste having the characteristics described in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 9719

2. First Name: ILEEN S 3. Last Name: GLADSTONE

4. Telephone: 7817214012 5. Ext: _____ 6. Email: igladstone@geiconsultants.com

7. Signature: ILEEN S GLADSTONE 9. LSP Stamp:

8. Date: 6/23/2020
(mm/dd/yyyy)





BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

3 - 18126

G. PERSON SUBMITTING BILL OF LADING:

1. Check all that apply: a. change in contact name b. change of address c. change in the person undertaking response actions
2. Name of Organization: CITY OF LAWRENCE
3. Contact First Name: PEDRO 4. Last Name: SOTO
5. Street: 12 METHUEN STREET 6. Title: PLANNING DIRECTOR
7. City/Town: LAWRENCE 8. State: MA 9. Zip Code: 018400000
10. Telephone: 9786203501 11. Ext: _____ 12. Email: psoto@cityoflawrence.com

H. RELATIONSHIP TO SITE OF PERSON SUBMITTING BILL OF LADING:

Check here to change relationship

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter
 e. Other RP or PRP Specify: _____
2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
4. Any Other Person Undertaking Response Actions: Specify Relationship: _____

I. REQUIRED ATTACHMENT AND SUBMITTALS:

1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approvals issued by DEP or EPA. If the box is checked, you must attach a statement identifying the applicable provisions thereof.
2. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@state.ma.us
3. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING:

1. I, PEDRO SOTO, attest under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: PEDRO SOTO 3. Title: PLANNING DIRECTOR
4. For: CITY OF LAWRENCE 5. Date: 6/22/2020
(Name of person or entity recorded in Section G) (mm/dd/yyyy)



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

WM Profile No. 497552NH

BWSC 112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

3 - 18126

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING (cont.) :

6. Check here if the address of the person providing certification is different from address recorded in Section G.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. Zip Code: _____

11. Telephone: _____ 12. Ext: _____ 13. Email: _____

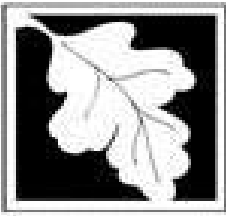
YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (MassDEP USE ONLY):

Received by DEP on 6/23/2020 10:17:34 AM

ATTACHMENT TO BWSC112
RTN 3-18126
QUESTION I.1.

The Response Actions on Lot 1 are subject to the Toxic Substances Control Act (TSCA; 40 CFR 761) and EPA approval of the Self Implementing PCB Cleanup Plan dated April 2020 prepared by GEI for Lot 1.



BILL OF LADING (pursuant to 310 CMR 40.0030)

3 - 18126

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

1. Release Name/Location Aid: TOMBARELLO AND SONS INC HOFMAN AVE
2. Street Address: 207 MARSTON ST
3. City/Town: LAWRENCE 4. Zip Code: 018410000
5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.
 a. Tier I b. Tier ID c. Tier II

B. THIS FORM IS BEING USED TO: (check one: B1-B4):

1. Submit a **Bill of Lading (BOL)** to transport Remediation Waste to Temporary Storage or a Receiving Facility.
Response Actions associated with this BOL (check all that apply):
 a. Immediate Response Action (IRA) e. Comprehensive Response Actions
 b. Release Abatement Measure (RAM) f. Limited Removal Action (LRA): (must be retained pursuant to 310 CMR 40.0034(6); can't be submitted via eDEP)
 c. Downgradient Property Status (DPS) g. Other _____
 d. Utility Release Abatement Measure (URAM)
2. Submit an Attestation of Completion of **Shipment to Temporary Storage** (Sections C, F and J are not required):
3. Submit an Attestation of **Completion of Shipment to a Receiving Facility** (Sections C, F and J are not required):
4. Certify that Remediation Waste Was **Not Shipped, and the Bill of Lading is Void**. (Sections C, D, E, and F are not required)
5. Date Bill of Lading submitted to the Department: 6/23/2020 b. eDEP Transaction ID: 1191003
(mm/dd/yyyy)
6. Period of Generation Associated with this Bill of Lading 6/30/2020 to 7/2/2020
(mm/dd/yyyy) (mm/dd/yyyy)

(All sections of this transmittal form must be filled out unless otherwise noted above)

The Bill of Lading is not considered complete until the Attestation of Completion of Shipment is received by the Department.

C. DESCRIPTION OF WASTE AND WASTE SOURCE:

1. Contaminated Media/Debris (check all that apply):
 a. Soil b. Groundwater c. Surface Water d. Sediment e. Vegetation or Organic Debris
 f. Demolition/Construction Waste g. Inorganic Absorbent Materials h. Other: _____
2. Uncontainerized Waste (check all that apply):
 a. Inorganic Absorbent Materials b. Other: _____



BILL OF LADING (pursuant to 310 CMR 40.0030)

C. DESCRIPTION OF WASTE AND WASTE SOURCE (cont.):

3. Containerized Waste (check all that apply):

- a. Tank Bottoms/Sludges
- b. Containers
- c. Drums
- d. Engineered Impoundments

e. Other: _____

4. Estimated Quantity: _____ Tons Cu. Yds. Gallons

5. Contaminant Source (check one):

- a. Transportation Accident
- b. Underground Storage Tank
- c. Brownfields Redevelopment

d. Other: _____

6. Type of Contaminant (check all that apply):

- a. Gasoline
- b. Diesel Fuel
- c. #2 Fuel Oil
- d. #4 Fuel Oil
- e. #6 Fuel Oil
- f. Jet Fuel

g. Waste Oil h. Kerosene i. Chlorinated Solvents j. Urban Fill k. Other: _____

7. Constituents of Concern (check all that apply):

- a. As
- b. Cd
- c. Cr
- d. Pb
- e. Hg
- f. EPH/TPH
- g. VPH

h. PCBs i. VOCs j. SVOCs k. Other: _____

8. If applicable, check the box for the Reportable Concentration Category of the site:

- a. RCS-1
- b. RCS-2
- c. RCGW-1
- d. RCGW-2

9. Remediation Waste Characterization Documentation (check at least one):

- a. Site History Information
- b. Sampling Analytical Methods and Procedures
- c. Laboratory Data

d. Field Screening Data e. Characterization Documentation previously submitted to the Department

i. Date submitted: _____ ii. Type of Documentation: _____
(mm/dd/yyyy)

D. TRANSPORTER OR COMMON CARRIER INFORMATION:

1. Transporter/Common Carrier Name: W.L. FRENCH EXCAVATING CORP.

2. Contact First Name: DAN 3. Last Name: WALSH

4. Street: 14 STERLING ROAD 5. Title: SR. ENVIRONMENTAL PROJECT MGR

6. City/Town: N. BILLERICA 7. State: MA 8. Zip Code: 018620000

9. Telephone: 9786002106 10. Ext: _____ 11. Email: dwalsh@french.com



BILL OF LADING (pursuant to 310 CMR 40.0030)

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

1. Operator/Facility Name: WASTE MANAGEMENT OF NH (TREE)

2. Contact First Name: ELLEN 3. Last Name: BELLIO

4. Street: 90 ROCHESTER ROAD 5. Title: SR. MANAGER WASTE APPROVALS

6. City/Town: ROCHESTER 7. State: NH 8. Zip Code: 038397065

9. Telephone: 8009634776 10. Ext: _____ 11. Email: ebellio@wm.com

12. Type of facility: (check one)

a. Temporary Storage i. Period of Temporary Storage _____ to _____
(mm/dd/yyyy) (mm/dd/yyyy)

ii. Reason for Temporary Storage: _____

b. Asphalt Batch/Hot Mix c. Landfill/Disposal d. Landfill/Structural Fill e. Landfill/Daily Cover

f. Asphalt Batch/Cold Mix g. Thermal Processing h. Incinerator i. Other: _____

13. Division of Hazardous Waste/Class A Permit Number: _____

14. Division of Solid Waste Permit Number: DES-SW-SP-95-001

15. EPA Identification Number: _____

F. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this submittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief, the assessment action(s) undertaken to characterize the Remediation Waste which is (are) the subject of this submittal for acceptance at the facility identified in this submittal comply with applicable provisions of 310 CMR 40.0000, and such facility is permitted to accept Remediation Waste having the characteristics described in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: _____

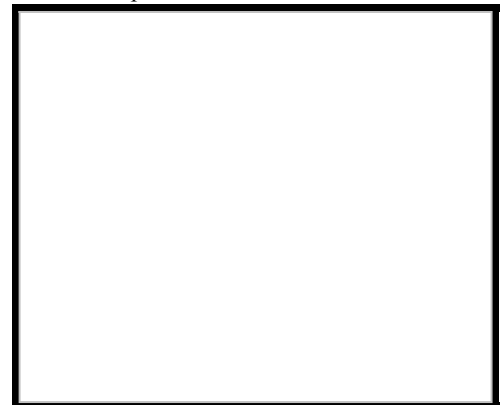
2. First Name: _____ 3. Last Name: _____

4. Telephone: _____ 5. Ext: _____ 6. Email: _____

7. Signature: _____

8. Date: _____
(mm/dd/yyyy)

9. LSP Stamp:





BILL OF LADING (pursuant to 310 CMR 40.0030)

G. PERSON SUBMITTING BILL OF LADING:

1. Check all that apply: a. change in contact name b. change of address c. change in the person undertaking response actions
2. Name of Organization: CITY OF LAWRENCE
3. Contact First Name: PEDRO 4. Last Name: SOTO
5. Street: 12 METHUEN STREET 6. Title: PLANNING DIRECTOR
7. City/Town: LAWRENCE 8. State: MA 9. Zip Code: 018400000
10. Telephone: 9786203501 11. Ext: _____ 12. Email: psoto@cityoflawrence.com

H. RELATIONSHIP TO SITE OF PERSON SUBMITTING BILL OF LADING:

Check here to change relationship

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter
 e. Other RP or PRP Specify: _____
2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
4. Any Other Person Undertaking Response Actions: Specify Relationship: _____

I. REQUIRED ATTACHMENT AND SUBMITTALS:

1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approvals issued by DEP or EPA. If the box is checked, you must attach a statement identifying the applicable provisions thereof.
2. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@state.ma.us
3. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING:

1. I, _____, attest under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: PLANNING DIRECTOR
4. For: CITY OF LAWRENCE 5. Date: _____
(Name of person or entity recorded in Section G) (mm/dd/yyyy)



BILL OF LADING (pursuant to 310 CMR 40.0030)

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING (cont.) :

6. Check here if the address of the person providing certification is different from address recorded in Section G.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. Zip Code: _____

11. Telephone: _____ 12. Ext: _____ 13. Email: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (MassDEP USE ONLY):

Received by DEP on 10/7/2020 2:27:13 PM



BILL OF LADING (pursuant to 310 CMR 40.0030)

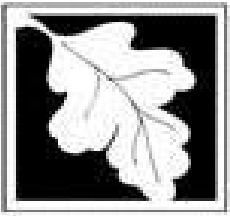
Release Tracking Number

SUMMARY OF SHIPMENT SHEET 1 OF 1

3 - 18126

A. SUMMARY OF SHIPMENT (To be filled out by the receiving facility upon receipt of Remediation Waste):

1. Date of Shipment: (mm/dd/yyyy)	2. Date of Receipt: (mm/dd/yyyy)	3. Number of Loads Shipped:	4. Daily Volume Shipped: <input type="checkbox"/> yds3 <input checked="" type="checkbox"/> tons <input type="checkbox"/> gals
6/30/2020	6/30/2020	10	323.1
6/30/2020	7/1/2020	2	69.89
7/1/2020	7/1/2020	3	97.04
7/2/2020	7/2/2020	3	92.38
5. Totals Recorded on this Summary of Shipment Sheet:		18	582.41



BILL OF LADING (pursuant to 310 CMR 40.0030)
SUMMARY SHEET SIGNATURE PAGE

A. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE:

1. I, ROBERT S MAGNUSSON, attest under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: ROBERT S MAGNUSSON 3. Title: _____

4. For: WASTE MANAGEMENT OF NH (TREE) 5. Date: 10/5/2020
(mm/dd/yyyy)

6. Date of Final Shipment associated with this Bill of lading: 7/2/2020
(mm/dd/yyyy)

B. ACKNOWLEDGEMENT OF SHIPMENT AND RECEIPT OF REMEDIATION WASTE BY PERSON CONDUCTING RESPONSE ACTIONS ASSOCIATED WITH THIS BILL OF LADING:

1. I, PEDRO SOTO, attest under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: PEDRO SOTO 3. Title: _____

4. For: CITY OF LAWRENCE 5. Date: 10/7/2020
(Name of person or entity recorded in Section G) (mm/dd/yyyy)

6. Check here if the address of the person providing certification is different from address recorded in BWSC112 Section G.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. Zip Code: _____

11. Telephone: _____ 12. Ext: _____ 13. Email: _____

14. Check here if attaching optional supporting documentation such as copies of Load Information Summary Sheets



Consulting May 1, 2020
Engineers and Project 1802441
Scientists

Ms. Ellen Bellio
Senior Manager Waste Approvals
Waste Management – Turnkey Recycling and Environmental Enterprises
90 Rochester Neck Road
Rochester, NH 03839

Dear Ms. Bellio:

Re: Supporting Information for PCB-Contaminated Soil and Asphalt Profile for Disposal at Waste Management Turnkey Landfill, Rochester, New Hampshire Former Tombarello Property Lawrence, Massachusetts MassDEP RTN 3-18126

This letter provides characterization data for soil and asphalt to be generated during the cleanup of the Lot 1 portion of the former Tombarello property at 207 Marston Street in Lawrence, Massachusetts (Figs. 1 and 2; the Site). The former Tombarello property is owned by the City of Lawrence. W.L. French, the contractor performing the work, proposes to dispose of the soil and asphalt from Lot 1 at the Turnkey Recycling and Environmental Enterprises (TREE) in Rochester, New Hampshire. A completed Waste Management EZ Profile Form, signed by the generator of the waste, the City of Lawrence, is in Appendix A.

Background

The Site is a 14-acre property owned by the City of Lawrence at 207 Marston Street in Lawrence, Massachusetts. The property has been sub-divided into two lots, Lot 1 and Lot 2 (Fig. 1). Lot 1 is a 2.6-acre parcel to the west and Lot 2 is an 11.4-acre parcel to the east. The soil and asphalt planned for disposal at the TREE will be from the northwest portion of Lot 1 (Fig. 1; Project Area).

Since 2001, the Site has been vacant, except for a truck driving school, which operated on the Site for a short time in 2006. A metals recycling facility (John C. Tombarello & Sons followed by American Recycling of Massachusetts, Inc.), operated at the Site from about 1941 through 2001. Structures associated with the metals recycling operations included a scale house (Lot 1), metals shop/garage (Lot 2), furnace building (Lot 2), baler/press building (Lot 2), and small shear and large shear buildings (Lot 2). A mobile car crusher also operated on the Site (Lot 2). The primary metals recycling activities took place on Lot 2.

The former Tombarello property is a Massachusetts Department of Environmental Protection (MassDEP) disposal Site identified by Release Tracking Number (RTN) 3-18126 in part due to the presence of PCBs in soil. Site contamination is primarily PCBs, metals, petroleum hydrocarbons, and polycyclic aromatic hydrocarbons (PAHs) in soil. The contamination has been attributed to the historic use of the Site as a metals recycling facility. Site contamination was

initially identified on Lot 2 during subsurface investigations in 1998 and contaminant concentrations on Lot 2 are significantly higher than on Lot 1. In addition, the portion of Lot 1 where soil and asphalt will be generated for disposal at the TREE has been paved since sometime prior to 1973, resulting in much lower impacts to soil beneath the pavement in this area. PCB concentrations in soil on Lot 2 are greater than 50 ppm whereas PCB concentrations in soil on Lot 1 are less than 50 ppm (maximum of 24 ppm) and less than 1 ppm on the northwest portion of Lot 1, which is the area planned for excavation and offsite disposal at the TREE.

Although PCBs are less than 1 ppm in soil in the area planned for excavation and offsite disposal at TREE, because PCBs at concentrations greater than 50 ppm were detected in soil on Lot 2 and because PCBs are present in asphalt on Lot 1 at greater than 1 ppm (1.6 ppm), cleanup and disposal of Excavation #2 on Lot 1 and asphalt are subject to the requirements of the Toxic Substances Control Act (TSCA; 40 CFR 761). GEI prepared and submitted to EPA for approval a "Self-Implementing PCB Cleanup and Disposal Plan" dated April 2020 for cleanup of Lot 1 (SIP). The Plan requests EPA approval for the offsite disposal of soil and asphalt generated from the northwest portion of Lot 1 at a Subtitle D landfill. A copy of the Cleanup Plan is in Appendix C and EPA Approval is pending. The City is also conducting the cleanup as a Release Abatement Measure (RAM) in accordance with the MCP. A copy of the final RAM Plan will be provided once submitted to MassDEP.

Soil Characterization

Soil to be disposed at TREE is being generated from the targeted Excavation Area #1 and Excavation Area #2 on Lot 1 (Fig. 2).

Soil in Excavation Area #1 has elevated concentrations of extractable petroleum hydrocarbons (EPH). PCBs in this area are less than 1 ppm and were not subject to the SIP. The excavation will be about 10 feet wide by 10 feet long and extend to a depth of seven feet. The total in-situ volume of soil to be excavated from Excavation Area #1 is approximately 26 cubic yards.

Although the PCB concentration in the soil in Excavation Area #2 is less than 1 ppm, due to its proximity to the remainder of Lot 1 where PCBs have been detected at greater than 1 ppm but less than 50 ppm, Excavation Area #2 is subject to the SIP. The excavation will be approximately five feet wide by 110 feet long and extend to a depth of three feet. The total in-situ volume of soil to be excavated from Excavation Area #2 is approximately 61 cubic yards.

On March 12, 2020, GEI observed Northern Drill Service, Inc. of Northborough, Massachusetts advance four soil borings at locations LOT1-DISP-01, LOT1-DISP-02A, LOT1-DISP-02B, and LOT1-DISP-02C (Fig. 2). The borings were advanced using a direct push Geoprobe drilling method. The soil boring at LOT1-DISP-01 was advanced to a depth of 7 feet and the soil borings at LOT1-DISP-02A, LOT1-DISP-02B, and LOT1-DISP-02C were advanced to a depth of 3 feet. All the borings were advanced through a surface cover of asphalt pavement. Boring logs are in the attached PCB Cleanup Plan (Appendix C). Soil descriptions in the boring logs are based on a modified UCSC classification.

Soil planned for excavation and offsite disposal at TREE is fill consisting of brown to black widely graded sand with gravel and silty sand. Brick, slag, paint, and caulk were observed in some of borings.

For Excavation Area #1, a composite sample (Lot1-Disp-01) was collected by compositing soil from the boring across the 1 to 7-foot depth interval, which is representative of the soil planned for excavation. For Excavation Area #2, a composite sample (Lot1-Disp-02comp) was collected

by compositing soil from locations LOT1-DISP-02A, LOT1-DISP-02B, and LOT1-DISP-02C. Samples from Lot1-Disp-02A through C were collected across the depth interval 1 to 3 feet. A grab sample (Lot1-Disp02grab) was collected from Lot1-Disp-02B. Each sample was field screened for volatile organic compounds (VOCs) using the jar headspace method and a photoionization detector (PID). The results of field screening for VOCs ranged from 0.0 to 0.1 ppm and are on the boring logs.

The samples were submitted to ESS laboratories of Cranston, Rhode Island for chemical testing. Lot1-Disp-01 and Lot1-Disp-02comp were tested for semi-volatile organic compounds (SVOCs) (including pyridine), PCBs, RCRA 8 metals, TCLP lead, TPH, ignitability, corrosivity, reactive cyanide and sulfide. Lot1-Disp-01 and Lot1-Disp-02comp were tested for VOCs. PCBs were not detected at a concentration above the laboratory reporting limit in Lot1-Disp-01 and were detected at 0.16 ppm in Lot1-Disp-02comp.

Data collected to characterize soil planned for excavation and offsite disposal are summarized in Table 1. The laboratory data report is in Appendix D.

Asphalt Characterization

Approximately 11,000 square feet (330 cubic yards) of asphalt surface cover will be removed and disposed at TREE. The asphalt surface cover ranges in thickness from 3 to 10-inches. The asphalt is subject to the SIP.

On September 3, 2019, Crede Associates of Westbrook, Maine collected four asphalt samples (AS-1 through AS-4) (Fig. 2). Asphalt samples were collected using an impact hammer drill from a depth of 0 to 0.5-inch. The asphalt samples were submitted to Alpha Analytical of Westborough, Massachusetts for PCB testing.

Total PCB concentrations detected in the asphalt samples ranged from 0.184 to 1.61 ppm. The results of asphalt chemical testing are summarized in Table 2 and the laboratory data report is in Appendix D. The data sheets for samples that are not proposed for disposal at TREE are identified with "Not Applicable" in the laboratory reports.

Data Usability

The samples collected and analyses performed and submitted for review are enough to adequately characterize the nature and concentrations of contaminants in the soil. We reviewed the laboratory's quality assurance/quality control data. We also performed our own internal validation and review of the laboratory data. We have concluded that all the soil data are usable and are representative of the material proposed for TREE. Additionally, the soil chemical testing results are consistent with the known history of this portion of the Property as a paved portion at the perimeter of a metals recycling facility.

The soil samples were not submitted for chemical testing of pesticides or herbicides. GEI and the City of Lawrence are not aware of any known storage or usage of significant quantities of pesticides or herbicides based on the current and historical use of the project site. Therefore, we do not believe that pesticides or herbicides are contaminants of concern at the project site.

We used due diligence to characterize the soil for the presence of listed hazardous waste and characteristic hazardous waste in accordance with MassDEP Policy HW93-01. Chemical testing performed on the soil within the area of the proposed excavation indicated the presence of tetrachloroethylene and 1,1,2,2-tetrachloroethane; however, specific sources have not been

Ms. Ellen Bellio

-4-

May 1, 2020

identified, therefore it is not a listed hazardous waste and a contained in determination is not required. Chemical testing performed on the soil within the area of the proposed excavation did not indicate the presence of a listed hazardous waste nor did the soil exhibit a characteristic of hazardous waste. Due diligence has included field investigations and a review of available historic documents for the site.

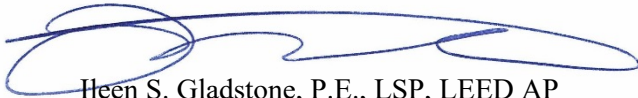
LSP Opinion

Based on our chemical testing results, soil represented by the samples in Table 1 and asphalt in Table 2 are appropriate for disposal at TREE. We estimate that the soil samples summarized in Table 1 will allow for transportation and disposal of up to 400 tons (250 cubic yards) of soil. The soil will be tracked using a MassDEP Bill of Lading (BOL; BWSC112), a copy of which is in Appendix B. If more than 400 tons of soil are to be transported to TREE, we will provide additional data to characterize the additional soil for disposal. Approximately 330 cubic yards of asphalt will also be disposed at TREE and tracked using the same BOL.

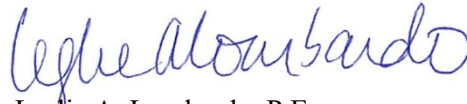
Please contact Ileen Gladstone at 781-424-9924 or igladstone@geiconsultants.com or Leslie Lombardo at 339-221-3351 or llombardo@geiconsultants.com, if you have any questions regarding this letter.

Sincerely,

GEI CONSULTANTS, INC.



Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President



Leslie A. Lombardo, P.E.
Project Manager

LAL/ISG:jam

Attachments

c: Pedro Soto, City of Lawrence

Tables

Table 1. Chemical Testing Results - Soil Disposal Characterization Samples - Lot 1
Former Tombarello Site
Lawrence, Massachusetts

			Sample ID: 1802441-Lot1-DISP01				1802441-Lot1-DISP02-Grab		1802441-Lot1-DISP02-Comp	
			Sample Location: Lot1-DISP01				Lot1-DISP02B		Lot1-DISP02A, B, C (Composite)	
			Sampling Date: 03/12/2020				03/12/2020		03/12/2020	
			Sample Depth (ft): 1 - 7				1 - 3		1 - 3	
			Lab Sample ID: 20C0466-01				20C0466-02		20C0466-03	
Analyte	Method	Units	Reuse Levels for In-State Unlined Landfill	Reuse Levels for In-State Lined Landfill						
Volatile Organic Compounds (VOCs)	8260	mg/kg							NT	
1,1,2,2-Tetrachloroethane			NS	NS	0.0059		< 0.0013			
Acetone			NS	NS	< 0.0068	G	0.123			
Methyl Ethyl Ketone (2-Butanone)			NS	NS	< 0.0068		0.0154			
Tetrachloroethene			NS	NS	0.0089		< 0.0032			
Total VOCs			4	10	0.0148		0.1384			
Semi-Volatile Organic Compounds (SVOCs)	8270	mg/kg							NT	
2-Methylnaphthalene			NS	NS	< 0.324				0.298	
Acenaphthylene			NS	NS	< 0.752				1.4	
Anthracene			NS	NS	< 1.50				2.3	
Benzo(a)anthracene			NS	NS	2.28				5.58	
Benzo(a)pyrene			NS	NS	2.52				5.77	
Benzo(b)fluoranthene			NS	NS	2.42				4.97	
Benzo(g,h,i)perylene			NS	NS	1.75				3.21	
Benzo(k)fluoranthene			NS	NS	1.72				4	
Chrysene			NS	NS	2.3				5.41	
Dibenzo(a,h)anthracene			NS	NS	0.575				1.16	
Fluoranthene			NS	NS	4.54				11.1	
Fluorene			NS	NS	< 1.50				0.826	
Indeno(1,2,3-cd)pyrene			NS	NS	1.5				3.07	
Phenanthrene			NS	NS	2.43				8.3	
Pyrene			NS	NS	4.39				10.8	
Pyridine			NS	NS	<7.52				<3.44	
Total SVOCs			100	100	26.425				68.194	
Petroleum Hydrocarbons	8100M	mg/kg							NT	
Total petroleum hydrocarbons			2,500	5,000	352				876	
Polychlorinated Biphenyls (PCBs)	8082	mg/kg							NT	
Aroclor 1242			NS	NS	< 0.06				0.1	
Aroclor 1260			NS	NS	< 0.06				0.06	
Total PCBs			2	2	ND				0.16	
Total Metals		mg/kg							NT	
Arsenic	6010		40	40	6.61				4.93	
Barium	6010		NS	NS	171				57.3	
Cadmium	6010		30	80	1.17				< 0.45	
Chromium	6010		1000	1000	33.9				15.6	
Lead	6010		1000	2000	392				185	
Mercury	6010		10	10	0.559				0.059	
Selenium	6010		NS	NS	< 4.41				< 4.48	
Silver	6010		NS	NS	< 0.44				< 0.45	
TCLP Metals	1311	mg/L							NT	
Lead			5	5	0.281				1.26	
Other										
pH	9045	S.U.	NS	NS	7.75		NT		7.15	
Flashpoint	1010	°F	NS	NS	> 200		NT		> 200	
Reactive Cyanide	7.3.3.2	mg/kg	NS	NS	< 2.0		NT		< 2.0	
Reactive Sulfide	7.3.4.1	mg/kg	NS	NS	< 2.0		NT		< 2.0	
Solids, Percent	2540G	%	NS	NS	88		93		93	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
3. Unlined and lined landfill disposal criteria are from MassDEP Policy #COMM-97-001, dated August 15, 1997.
4. NT = The sample was not tested for this analyte.
5. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
6. NS = No disposal facility criteria has been established for this analyte.
- 7 mg/kg = milligrams per kilogram
8. mg/L = milligrams per liter
- 9 S.U. = standard units.
10. deg F = degrees Fahrenheit.
11. Soil samples for VOC analysis were preserved in the field with deionized water.

Validators Qualifiers:

- G The result is estimated due to duplicate precision outside control limits.

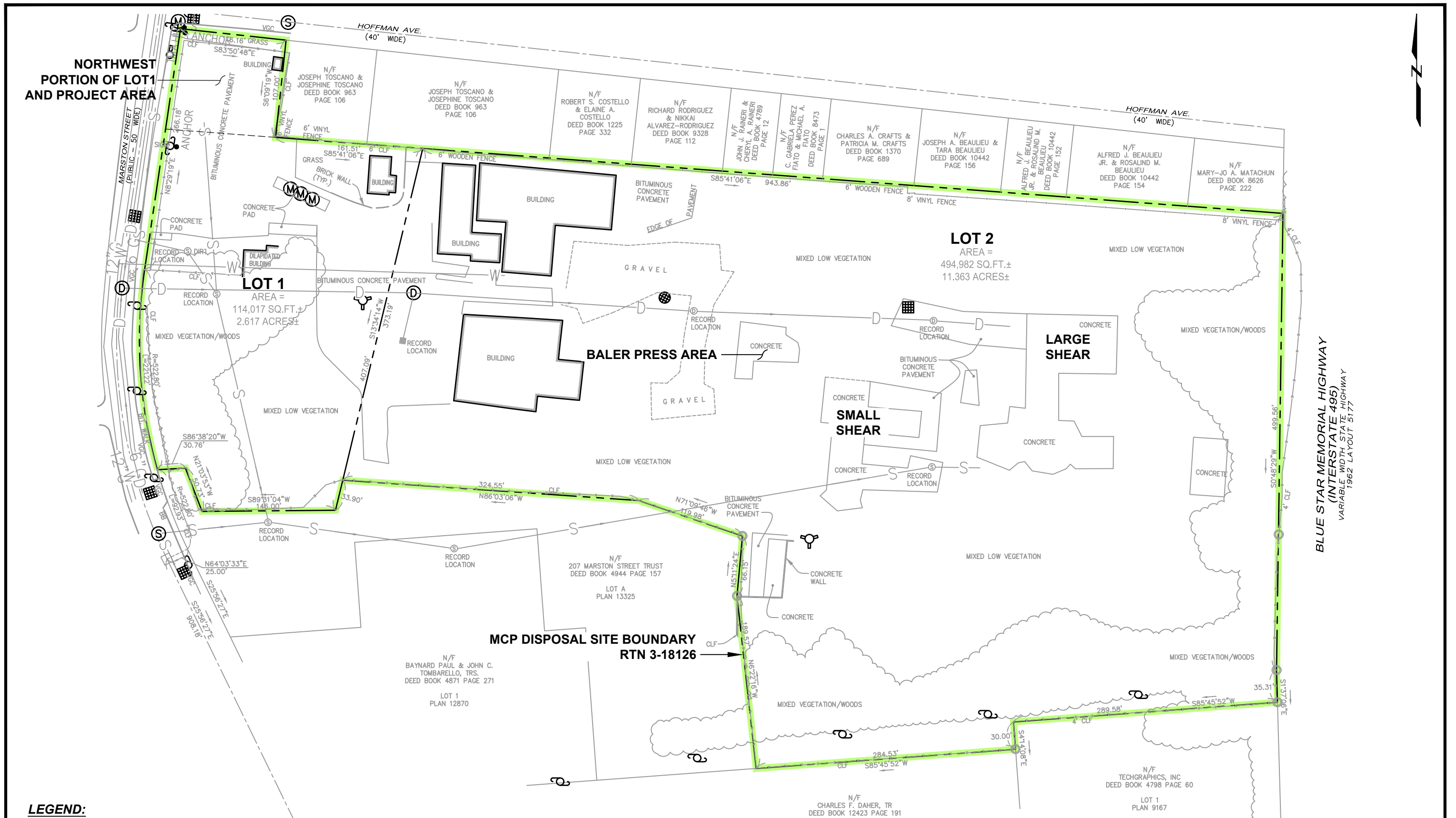
Table 2. Chemical Testing Results - Asphalt Samples
Former Tombarello Site
Lawrence, Massachusetts

			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Location Name			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Sample Name			AS-1	AS-2	AS-2	AS-3	AS-4
Sample Depth (in):			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sample Date			9/3/2019	9/3/2019	9/3/2019	9/3/2019	9/3/2019
Parent Sample					AS-2		
Lab Sample ID:			L1940717-05	L1940717-06	L1940717-09	L1940717-07	L1940717-08
Analyte	Units	CAS No.					
Polychlorinated Biphenyls (PCBs)	mg/kg						
Aroclor 1260		11096-82-5	0.986	0.508	1.61	0.184	0.354
Total PCBs		1336-36-3	0.986	0.508	1.61	0.184	0.354

Notes:

1. <= The analyte was not detected at a concentration above the specified laboratory reporting limit.
2. in = inches
3. mg/kg = milligrams/kilogram.
4. CAS No. = Chemical Abstracts Service Number
5. Bolding indicates the detected concentration is greater than 1 mg/kg.

Figures

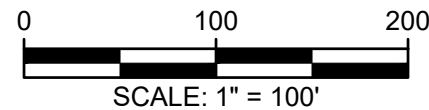


LEGEND:

PROPERTY BOUNDARY AND MCP DISPOSAL SITE BOUNDARY (RTN 3-18126)

NOTES:

1. BASE PLAN FROM "EXISTING CONDITIONS PLAN, 207 MARSTON STREET, LAWRENCE, MA," PREPARED BY NITSCH ENGINEERING INC. DATED 4/1/2019.



Former Tombarello Property
Lawrence, Massachusetts

City of Lawrence
Lawrence, Massachusetts

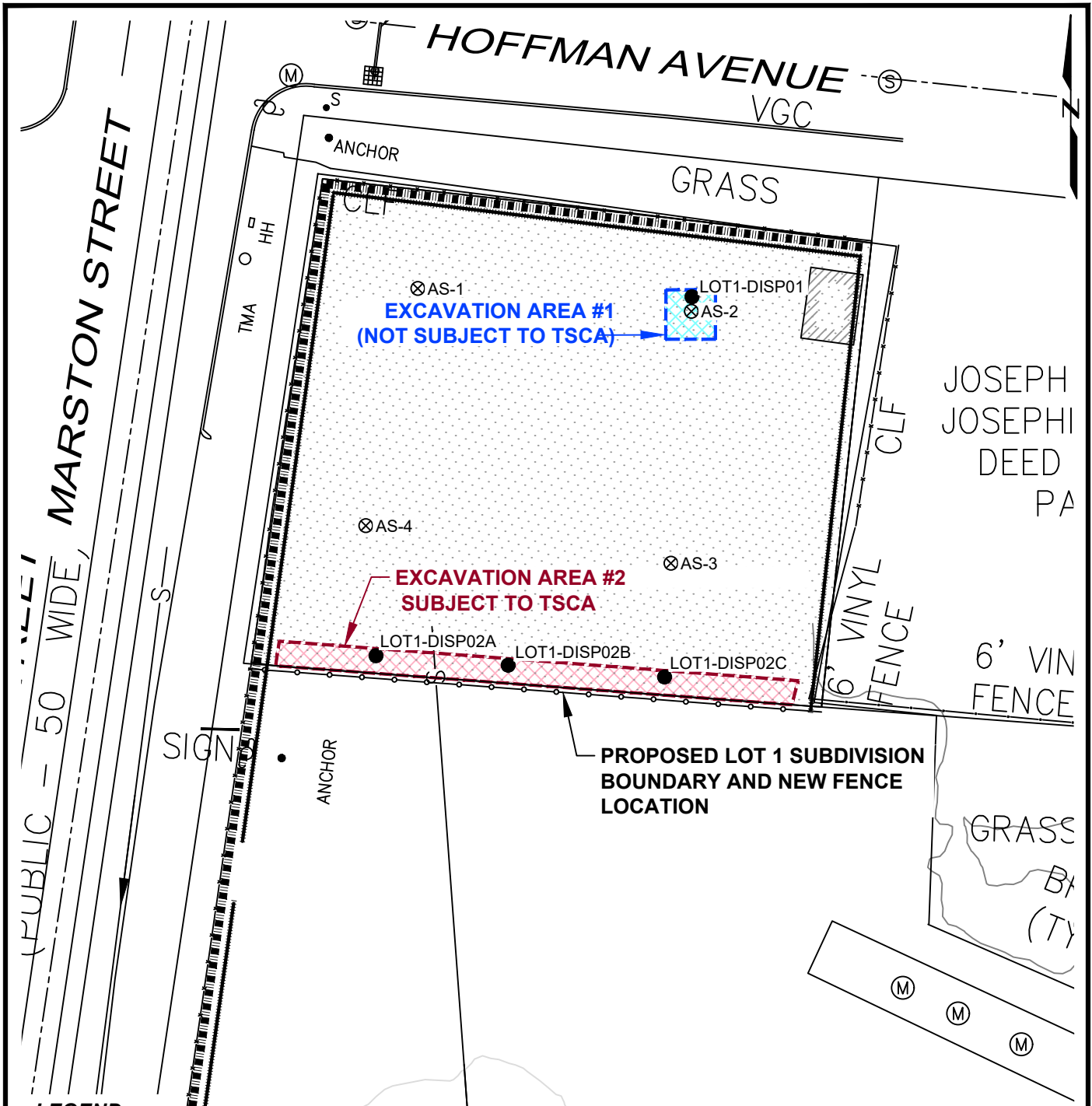


Project 1802441

DISPOSAL SITE PLAN

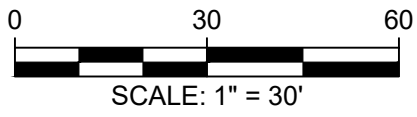
May 2020


Fig. 1



LEGEND:

- ⊗ ASPHALT SAMPLE, GEI 2020
- SOIL DISPOSAL CHARACTERIZATION SAMPLE, GEI 2020
- [Red Hatched Box] EXCAVATION AREA #2 (SUBJECT TO TSCA)
- [Blue Hatched Box] EXCAVATION AREA #1 (NOT SUBJECT TO TSCA)
- [Dotted Box] EXTENT OF ASPHALT SURFACE COVER REMOVAL, LOAM, AND SEED
- [Dashed Line] PRIVACY SCREEN INSTALLED ON EXISTING FENCING



Former Tombarello Property Lawrence, Massachusetts		LOT 1 EXCAVATION AREAS AND DISPOSAL SAMPLE LOCATIONS
City of Lawrence Lawrence, Massachusetts		Project 1802441 May 2020 Fig. 2

Appendix A

Waste Management EZ Profile Form



Requested Facility: Turnkey Landfill Unsure Profile Number: _____
 Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: City of Lawrence
 2. Site Address: 207 Marston Street
 (City, State, ZIP) Lawrence, MA 01841
 3. County: Middlesex
 4. Contact Name: Pedro Soto
 5. Email: psoto@cityoflawrence.com
 6. Phone: 978-620-3501 7. Fax: _____
 8. Generator EPA ID: _____ N/A
 9. State ID: _____ N/A

C. MATERIAL INFORMATION

1. Common Name: Urban soil and asphalt surface cover
 Describe Process Generating Material: See Attached
 [Empty Box]
 2. Material Composition and Contaminants: See Attached

1. Narrowly to widely graded sand with gravel and silty sand	20%
2. Trace brick and slag	<1%
3. Asphalt debris	80%
4.	
Total comp. must be equal to or greater than 100%	≥100%

 3. State Waste Codes: _____ N/A
 4. Color: brown, black, gray
 5. Physical State at 70°F: Solid Liquid Other: _____
 6. Free Liquid Range Percentage: _____ to _____ N/A
 7. pH: _____ to _____ N/A
 8. Strong Odor: Yes No Describe: _____
 9. Flash Point: <140°F 140°-199°F ≥200° N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached Yes
 Please identify applicable samples and/or lab reports:
 [Box with text: See Table 1 for applicable lab report and sample IDs for soil. See Table 2 for applicable lab data report and sample IDs for asphalt.]
 2. Other information attached (such as MSDS)? Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Pedro Soto Date: 5/1/2020
 Title: Planning Director
 Company: City of Lawrence

B. BILLING INFORMATION

SAME AS GENERATOR

1. Billing Name: W.L. French Excavating Corp.
 2. Billing Address: 14 Sterling Rd
 (City, State, ZIP) Billerica, MA
 3. Contact Name: Dan Walsh
 4. Email: dwalsh@wlfrench.com
 5. Phone: 978-663-2623 6. Fax: _____
 7. WM Hauled? Yes No
 8. P.O. Number: _____
 9. Payment Method: Credit Account Cash Credit Card

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? Yes* No
 Code: _____
 2. State Hazardous Waste? Yes No
 Code: _____
 3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes* No
 4. Contains Underlying Hazardous Constituents? Yes* No
 5. From an industry regulated under Benzene NESHAP? Yes* No
 6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
 7. CERCLA or State-mandated clean-up? Yes* No
 8. NRC or State-regulated radioactive or NORM waste? Yes* No
***If Yes, see Addendum (page 2) for additional questions and space.**
 9. Contains PCBs? → If Yes, answer a, b and c. Yes No
 a. Regulated by 40 CFR 761? Yes No
 b. Remediation under 40 CFR 761.61 (a)? Yes No
 c. Were PCB imported into the US? Yes No
 10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
 11. Contains Asbestos? Yes No
 → If Yes: Non-Friable Non-Friable - Regulated Friable

F. SHIPPING AND DOT INFORMATION

1. One-Time Event Repeat Event/Ongoing Business
 2. Estimated Quantity/Unit of Measure: 417
 Tons Yards Drums Gallons Other: _____
 3. Container Type and Size: end dump trailer
 4. USDOT Proper Shipping Name: _____ N/A

Certification Signature

[Handwritten Signature]



EZ Profile™ Addendum



Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: _____

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): _____ If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1): _____ If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
Total composition must be equal to or greater than 100%	
	≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

- b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? Yes No
- c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4. Yes No
- d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? Yes No
 → If Yes, please check **one** of the following:
 - Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))
 - Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.

2. State Hazardous Waste → Please list all state waste codes: _____

3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:
 Delisted Hazardous Waste Excluded Waste under 40 CFR 261.4 → Specify Exclusion: _____
 Treated Hazardous Waste Debris Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.

- a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue. Yes No
- b. Does this material contain benzene? Yes No
 1. If yes, what is the flow weighted average concentration? _____ ppmw
- c. What is your facility's current total annual benzene quantity in Megagrams? <1 Mg 1–9.99 Mg ≥10 Mg
- d. Is this waste soil from a remediation? Yes No
 1. If yes, what is the benzene concentration in remediation waste? _____ ppmw
- e. Does the waste contain >10% water/moisture? Yes No
- f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? Yes No
- g. Is material exempt from controls in accordance with 40 CFR 61.342? Yes No
 → If yes, specify exemption: _____
- h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? Yes No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination? Yes No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.

8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: _____



Additional Profile Information

Profile Number: _____

C. MATERIAL INFORMATION

Material Composition and Contaminants (Continued from page 2):

If more space is needed, please attach additional pages.

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36.		
37.		
38.		
39.		
40.		
Total composition must be equal to or greater than 100%		≥100%

D. REGULATORY INFORMATION

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers (Continued from page 2):

2. Form Code:

3. Source Code:

Additional Profile Information



Profile Number: _____

F. SHIPPING AND DOT INFORMATION

4. USDOT Proper Shipping & Technical Name (Continued from page 1):

2.	<input type="checkbox"/> N/A
3.	<input type="checkbox"/> N/A
4.	<input type="checkbox"/> N/A
5.	<input type="checkbox"/> N/A
6.	<input type="checkbox"/> N/A
7.	<input type="checkbox"/> N/A
8.	<input type="checkbox"/> N/A
9.	<input type="checkbox"/> N/A
10.	<input type="checkbox"/> N/A
11.	<input type="checkbox"/> N/A
12.	<input type="checkbox"/> N/A
13.	<input type="checkbox"/> N/A
14.	<input type="checkbox"/> N/A
15.	<input type="checkbox"/> N/A
16.	<input type="checkbox"/> N/A
17.	<input type="checkbox"/> N/A
18.	<input type="checkbox"/> N/A
19.	<input type="checkbox"/> N/A
20.	<input type="checkbox"/> N/A
21.	<input type="checkbox"/> N/A
22.	<input type="checkbox"/> N/A
23.	<input type="checkbox"/> N/A
24.	<input type="checkbox"/> N/A
25.	<input type="checkbox"/> N/A
26.	<input type="checkbox"/> N/A
27.	<input type="checkbox"/> N/A
28.	<input type="checkbox"/> N/A
29.	<input type="checkbox"/> N/A
30.	<input type="checkbox"/> N/A
31.	<input type="checkbox"/> N/A
32.	<input type="checkbox"/> N/A
33.	<input type="checkbox"/> N/A
34.	<input type="checkbox"/> N/A
35.	<input type="checkbox"/> N/A
36.	<input type="checkbox"/> N/A
37.	<input type="checkbox"/> N/A
38.	<input type="checkbox"/> N/A
39.	<input type="checkbox"/> N/A
40.	<input type="checkbox"/> N/A
41.	<input type="checkbox"/> N/A
42.	<input type="checkbox"/> N/A
43.	<input type="checkbox"/> N/A
44.	<input type="checkbox"/> N/A
45.	<input type="checkbox"/> N/A
46.	<input type="checkbox"/> N/A
47.	<input type="checkbox"/> N/A
48.	<input type="checkbox"/> N/A
49.	<input type="checkbox"/> N/A
50.	<input type="checkbox"/> N/A
51.	<input type="checkbox"/> N/A



Additional Profile Information

Profile Number: _____

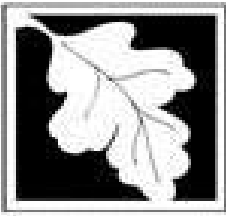
C. MATERIAL INFORMATION

3. State Waste Codes (Continued from page 1):

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Appendix B

Bill of Lading (BOL; BWSC112)



BILL OF LADING (pursuant to 310 CMR 40.0030)

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

- 1. Release Name/Location Aid: TOMBARELLO AND SONS INC HOFMAN AVE
- 2. Street Address: 207 MARSTON ST
- 3. City/Town: LAWRENCE 4. Zip Code: 018410000
- 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.
 - a. Tier I b. Tier ID c. Tier II

B. THIS FORM IS BEING USED TO: (check one: B1-B4):

- 1. Submit a **Bill of Lading (BOL)** to transport Remediation Waste to Temporary Storage or a Receiving Facility.
Response Actions associated with this BOL (check all that apply):
 - a. Immediate Response Action (IRA) e. Comprehensive Response Actions
 - b. Release Abatement Measure (RAM) f. Limited Removal Action (LRA): (must be retained pursuant to 310 CMR 40.0034(6); can't be submitted via eDEP)
 - c. Downgradient Property Status (DPS) g. Other _____
 - d. Utility Release Abatement Measure (URAM)
 - 2. Submit an Attestation of Completion of **Shipment to Temporary Storage** (Sections C, F and J are not required):
 - 3. Submit an Attestation of **Completion of Shipment to a Receiving Facility** (Sections C, F and J are not required):
 - 4. Certify that Remediation Waste Was **Not Shipped, and the Bill of Lading is Void**. (Sections C, D, E, and F are not required)
5. Date Bill of Lading submitted to the Department: _____ b. eDEP Transaction ID: _____
(mm/dd/yyyy)
6. Period of Generation Associated with this Bill of Lading 5/1/2020 to 8/31/2020
(mm/dd/yyyy) (mm/dd/yyyy)

(All sections of this transmittal form must be filled out unless otherwise noted above)

The Bill of Lading is not considered complete until the Attestation of Completion of Shipment is received by the Department.

C. DESCRIPTION OF WASTE AND WASTE SOURCE:

- 1. Contaminated Media/Debris (check all that apply):
 - a. Soil b. Groundwater c. Surface Water d. Sediment e. Vegetation or Organic Debris
 - f. Demolition/Construction Waste g. Inorganic Absorbent Materials h. Other: ASPHALT PAVEMENT
- 2. Uncontainerized Waste (check all that apply):
 - a. Inorganic Absorbent Materials b. Other: _____



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 112

Release Tracking Number

3 - 18126

BILL OF LADING (pursuant to 310 CMR 40.0030)

C. DESCRIPTION OF WASTE AND WASTE SOURCE (cont.):

3. Containerized Waste (check all that apply):

 a. Tank Bottoms/Sludges b. Containers c. Drums d. Engineered Impoundments

 e. Other: _____
4. Estimated Quantity: 420 Tons Cu. Yds. Gallons

5. Contaminant Source (check one):

 a. Transportation Accident b. Underground Storage Tank c. Brownfields Redevelopment

 d. Other: _____

6. Type of Contaminant (check all that apply):

 a. Gasoline b. Diesel Fuel c. #2 Fuel Oil d. #4 Fuel Oil e. #6 Fuel Oil f. Jet Fuel

 g. Waste Oil h. Kerosene i. Chlorinated Solvents j. Urban Fill k. Other: _____

7. Constituents of Concern (check all that apply):

 a. As b. Cd c. Cr d. Pb e. Hg f. EPH/TPH g. VPH

 h. PCBs i. VOCs j. SVOCs k. Other: _____

8. If applicable, check the box for the Reportable Concentration Category of the site:

 a. RCS-1 b. RCS-2 c. RCGW-1 d. RCGW-2

9. Remediation Waste Characterization Documentation (check at least one):

 a. Site History Information b. Sampling Analytical Methods and Procedures c. Laboratory Data

 d. Field Screening Data e. Characterization Documentation previously submitted to the Department

i. Date submitted: _____ ii. Type of Documentation: _____

(mm/dd/yyyy)

D. TRANSPORTER OR COMMON CARRIER INFORMATION:1. Transporter/Common Carrier Name: W.L. FRENCH EXCAVATING CORP.2. Contact First Name: DAN3. Last Name: WALSH4. Street: 14 STERLING ROAD5. Title: SR. ENVIRONMENTAL PROJECT MANAGE6. City/Town: BILLERICA7. State: MA8. Zip Code: 0186200009. Telephone: 9786002106

10. Ext: _____

11. Email: dwalsh@wlfrench.com



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

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BILL OF LADING (pursuant to 310 CMR 40.0030)**E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:**

1. Operator/Facility Name: WASTE MANAGEMENT OF NH (TREE)

2. Contact First Name: ELLEN 3. Last Name: BELLIO

4. Street: 90 ROCHESTER NECK ROAD 5. Title: SR. MGR. WASTE APPROVALS

6. City/Town: ROCHESTER 7. State: NH 8. Zip Code: 038397065

9. Telephone: 8009634776 10. Ext: _____ 11. Email: EBELLIO@WM.COM

12. Type of facility: (check one)

a. Temporary Storage i. Period of Temporary Storage _____ to _____
 (mm/dd/yyyy) (mm/dd/yyyy)

ii. Reason for Temporary Storage: _____

b. Asphalt Batch/Hot Mix c. Landfill/Disposal d. Landfill/Structural Fill e. Landfill/Daily Cover

f. Asphalt Batch/Cold Mix g. Thermal Processing h. Incinerator i. Other: _____

13. Division of Hazardous Waste/Class A Permit Number: _____

14. Division of Solid Waste Permit Number: DES-SW-SP-95-001

15. EPA Identification Number: _____

F. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this submittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief, the assessment action(s) undertaken to characterize the Remediation Waste which is (are) the subject of this submittal for acceptance at the facility identified in this submittal comply with applicable provisions of 310 CMR 40.0000, and such facility is permitted to accept Remediation Waste having the characteristics described in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 9719

2. First Name: ILEENS 3. Last Name: GLADSTONE

4. Telephone: 7817214012 5. Ext: _____ 6. Email: igladstone@geiconsultants.com

7. Signature: _____

8. Date: _____
 (mm/dd/yyyy)

9. LSP Stamp:





Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 112

Release Tracking Number

3 - 18126

BILL OF LADING (pursuant to 310 CMR 40.0030)**G. PERSON SUBMITTING BILL OF LADING:**

1. Check all that apply: a. change in contact name b. change of address c. change in the person undertaking response actions
2. Name of Organization: CITY OF LAWRENCE
3. Contact First Name: PEDRO 4. Last Name: SOTO
5. Street: 12 METHUEN STREET 6. Title: PLANNING DIRECTOR
7. City/Town: LAWRENCE 8. State: MA 9. Zip Code: 018400000
10. Telephone: 9786203501 11. Ext: _____ 12. Email: psoto@cityoflawrence.com

H. RELATIONSHIP TO SITE OF PERSON SUBMITTING BILL OF LADING: Check here to change relationship

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter
 e. Other RP or PRP Specify: _____

 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2) 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j)) 4. Any Other Person Undertaking Response Actions: Specify Relationship: _____**I. REQUIRED ATTACHMENT AND SUBMITTALS:** 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approvals issued by DEP or EPA. If the box is checked, you must attach a statement identifying the applicable provisions thereof. 2. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@state.ma.us 3. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.**J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING:**

1. I, _____, attest under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: PLANNING DIRECTOR

4. For: CITY OF LAWRENCE 5. Date: _____
 (Name of person or entity recorded in Section G) (mm/dd/yyyy)



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 112

Release Tracking Number

3 - 18126

BILL OF LADING (pursuant to 310 CMR 40.0030)

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING (cont.) :

6. Check here if the address of the person providing certification is different from address recorded in Section G.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. Zip Code: _____

11. Telephone: _____ 12. Ext: _____ 13. Email: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (MassDEP USE ONLY):



ATTACHMENT TO BWSC112
RTN 3-18126
QUESTION H.1.

The Response Actions are subject to the Toxic Substances Control Act (TSCA; 40 CFR 761) and EPA approval of the Self Implementing PCB Cleanup Plan dated April 2020 prepared by GEI Consultants, Inc.

Appendix C

Self-Implementing PCB Cleanup and Disposal Plan

Appendix D

Laboratory Data Reports



CERTIFICATE OF ANALYSIS

Leslie Lombardo
 GEI Consultants, Inc.
 400 Unicorn Park Drive
 Woburn, MA 01801

RE: Tombarello Site Investigation (1802441)
ESS Laboratory Work Order Number: 20C0466

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
 Laboratory Director

REVIEWED

By ESS Laboratory at 1:52 pm, Apr 17, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

SAMPLE RECEIPT

The following samples were received on March 13, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Low Level VOA vials were frozen by ESS Laboratory on March 13, 2020 at 20:29.

Question I: All samples for Metals were analyzed for a subset of the required MCP list per the client's request.

Revision 1 April 1, 2020: This report has been revised to include TPH results for samples 20C0466-01 and 20C0466-03 per the client's request.

Revision 2 April 16, 2020: This report has been revised to include Pyridine for samples 20C0466-01 and 20C0466-03 per the client's request.

Lab Number	Sample Name	Matrix	Analysis
20C0466-01	1802441-Lot1-DISP01	Soil	1010, 1311, 1311/6010C, 6010C, 7.3.3.2, 7.3.4.1, 7471B, 8082A, 8100M, 8260B Low, 8270D, 9045
20C0466-02	1802441-Lot1-DISP02-Grab	Soil	8260B Low
20C0466-03	1802441-Lot1-DISP02-Comp	Soil	1010, 1311, 1311/6010C, 6010C, 7.3.3.2, 7.3.4.1, 7471B, 8082A, 8100M, 8270D, 9045



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

- D0C0330-CCV1 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)
Acetone (21% @ 20%), Chloroethane (21% @ 20%), Chloromethane (22% @ 20%), Tetrahydrofuran (22% @ 20%), Vinyl Chloride (22% @ 20%)
- D0C0358-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)
Bromomethane (22% @ 20%)
- DC01838-BSD1 [Relative percent difference for duplicate is outside of criteria \(D+\).](#)
Acetone (21% @ 20%), Bromomethane (21% @ 20%)

8270D Semi-Volatile Organic Compounds

- 20C0466-01 [Elevated Method Reporting Limits due to sample matrix \(EL\).](#)
- 20C0466-03 [Elevated Method Reporting Limits due to sample matrix \(EL\).](#)
- D0C0313-CCV1 [Calibration required quadratic regression \(Q\).](#)
2,4-Dinitrophenol (129% @ 80-120%), Pentachlorophenol (109% @ 80-120%)
- D0C0313-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)
2,4-Dinitrophenol (29% @ 20%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20C0466-01 through 20C0466-03**

Matrices: () Ground Water/Surface Water Soil/Sediment () Drinking Water () Air () Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|--|---|---|---|---|------------------------------------|
| <input checked="" type="checkbox"/> 8260 VOC
CAM II A | <input checked="" type="checkbox"/> 7470/7471 Hg
CAM III B | () MassDEP VPH
(GC/PID/FID)
CAM IV A | <input checked="" type="checkbox"/> 8082 PCB
CAM V A | () 9014 Total
Cyanide/PAC
CAM VI A | () 6860 Perchlorate
CAM VIII B |
| <input checked="" type="checkbox"/> 8270 SVOC
CAM II B | () 7010 Metals
CAM III C | () MassDEP VPH
(GC/MS)
CAM IV C | () 8081 Pesticides
CAM V B | () 7196 Hex Cr
CAM VI B | () MassDEP APH
CAM IX A |
| <input checked="" type="checkbox"/> 6010 Metals
CAM III A | () 6020 Metals
CAM III D | () MassDEP EPH
CAM IV B | () 8151 Herbicides
CAM V C | () Explosives
CAM VIII A | () TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- | | | |
|---|---|--|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes <input checked="" type="checkbox"/> No () |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | Yes <input checked="" type="checkbox"/> No () |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | Yes <input checked="" type="checkbox"/> No () |
| D | Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | Yes <input checked="" type="checkbox"/> No () |
| E | VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | Yes () No () |
| | b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | Yes () No () |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | Yes <input checked="" type="checkbox"/> No () |

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- | | | |
|---|---|--|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350. | Yes () No <input checked="" type="checkbox"/> * |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | Yes () No <input checked="" type="checkbox"/> * |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | Yes () No <input checked="" type="checkbox"/> * |

*All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: March 20, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.61 (2.20)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Barium	171 (2.20)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Cadmium	1.17 (0.44)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Chromium	33.9 (0.88)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Lead	392 (4.41)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Mercury	0.559 (0.033)		7471B		1	MKS	03/17/20 8:33	0.68	40	DC01643
Selenium	ND (4.41)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Silver	ND (0.44)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

1311 TCLP Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	0.281 (0.050)		1311/6010C		1	KJK	03/19/20 20:36	50	50	DC01937



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 8.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1,1-Trichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1,2,2-Tetrachloroethane	0.0059 (0.0014)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1,2-Trichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1-Dichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1-Dichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1-Dichloropropene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,3-Trichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,3-Trichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,4-Trichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,4-Trimethylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dibromo-3-Chloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dibromoethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,3,5-Trimethylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,3-Dichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,3-Dichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,4-Dichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,4-Dioxane	ND (0.0682)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2,2-Dichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2-Butanone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2-Chlorotoluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2-Hexanone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
4-Chlorotoluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
4-Isopropyltoluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
4-Methyl-2-Pentanone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Acetone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Benzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromochloromethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 8.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromodichloromethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromoform	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromomethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Carbon Disulfide	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Carbon Tetrachloride	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chloroethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chloroform	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chloromethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
cis-1,2-Dichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
cis-1,3-Dichloropropene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Dibromochloromethane	ND (0.0014)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Dibromomethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Dichlorodifluoromethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Diethyl Ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Di-isopropyl ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Ethyl tertiary-butyl ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Ethylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Hexachlorobutadiene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Isopropylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Methyl tert-Butyl Ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Methylene Chloride	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Naphthalene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
n-Butylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
n-Propylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
sec-Butylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Styrene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
tert-Butylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Tertiary-amyl methyl ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Tetrachloroethene	0.0089 (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Tetrahydrofuran	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Toluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 8.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
trans-1,2-Dichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
trans-1,3-Dichloropropene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Trichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Trichlorofluoromethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Vinyl Chloride	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Xylene O	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Xylene P,M	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Xylenes (Total)	ND (0.00682)		8260B Low		1	03/18/20 20:39		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>89 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 3/17/20 14:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1221	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1232	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1242	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1248	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1254	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1260	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1262	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1268	ND (0.06)		8082A		1	03/18/20 21:32		DC01701

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	65 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	67 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	89 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 19.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: CAD
Prepared: 3/24/20 14:49

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	352 (58.4)		8100M		5	03/25/20 23:09	D0C0445	DC02311
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		88 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,2,4-Trichlorobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
1,2-Dichlorobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
1,3-Dichlorobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
1,4-Dichlorobenzene	ND (0.378)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4,5-Trichlorophenol	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4,6-Trichlorophenol	ND (0.369)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dichlorophenol	ND (0.374)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dimethylphenol	ND (0.338)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dinitrophenol	ND (2.51)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dinitrotoluene	ND (0.482)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,6-Dinitrotoluene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Chloronaphthalene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Chlorophenol	ND (0.423)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Methylnaphthalene	ND (0.324)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Methylphenol	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Nitrophenol	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
3,3'-Dichlorobenzidine	ND (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
3+4-Methylphenol	ND (3.00)		8270D		2	03/19/20 2:54	D0C0313	DC01609
4-Bromophenyl-phenylether	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
4-Chloroaniline	ND (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
4-Nitrophenol	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Acenaphthene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Acenaphthylene	ND (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Acetophenone	ND (3.00)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Aniline	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Anthracene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Azobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(a)anthracene	2.28 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(a)pyrene	2.52 (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(b)fluoranthene	2.42 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(g,h,i)perylene	1.75 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(k)fluoranthene	1.72 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
bis(2-Chloroethoxy)methane	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
bis(2-Chloroethyl)ether	ND (0.405)		8270D		2	03/19/20 2:54	D0C0313	DC01609
bis(2-chloroisopropyl)Ether	ND (0.401)		8270D		2	03/19/20 2:54	D0C0313	DC01609
bis(2-Ethylhexyl)phthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Butylbenzylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Chrysene	2.30 (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Dibenzo(a,h)Anthracene	0.575 (0.230)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Dibenzofuran	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Diethylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Dimethylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Di-n-butylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Di-n-octylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Fluoranthene	4.54 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Fluorene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Hexachlorobenzene	ND (0.252)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Hexachlorobutadiene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Hexachloroethane	ND (0.378)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Indeno(1,2,3-cd)Pyrene	1.50 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Isophorone	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Naphthalene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Nitrobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
N-Nitrosodimethylamine	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Pentachlorophenol	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Phenanthrene	2.43 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Phenol	ND (0.365)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Pyrene	4.39 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Pyridine	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	56 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	77 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	62 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
<i>Surrogate: 2-Fluorobiphenyl</i>		65 %		30-130				
<i>Surrogate: 2-Fluorophenol</i>		54 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		59 %		30-130				
<i>Surrogate: Phenol-d6</i>		62 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		83 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Corrosivity (pH)	7.75 (N/A)		9045		1	DEL	03/13/20 20:45	S.U.	DC01326
Corrosivity (pH) Sample Temp	Soil pH measured in water at 19.6 °C.								
Flashpoint	> 200 (N/A)		1010		1	CCP	03/16/20 13:30	°F	DC01620
Reactive Cyanide	ND (2.0)		7.3.3.2		1	EEM	03/16/20 10:58	mg/kg	DC01613
Reactive Sulfide	ND (2.0)		7.3.4.1		1	EEM	03/16/20 10:58	mg/kg	DC01613



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: °C
Analyst: MKS
Prepared: 3/18/20 20:15

TCLP Extraction by 1311

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Batch</u>
Temperature (Min C)	19.8 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Max C)	21.4 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Range)	Temperature is not within 23 +/-2 °C. (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Grab
Date Sampled: 03/12/20 08:50
Percent Solids: 93
Initial Volume: 8.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1,1-Trichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1,2,2-Tetrachloroethane	ND (0.0013)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1,2-Trichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1-Dichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1-Dichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1-Dichloropropene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,3-Trichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,3-Trichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,4-Trichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,4-Trimethylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dibromo-3-Chloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dibromoethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,3,5-Trimethylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,3-Dichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,3-Dichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,4-Dichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,4-Dioxane	ND (0.0642)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2,2-Dichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2-Butanone	0.0154 (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2-Chlorotoluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2-Hexanone	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
4-Chlorotoluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
4-Isopropyltoluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
4-Methyl-2-Pentanone	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Acetone	0.123 (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Benzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromochloromethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Grab
Date Sampled: 03/12/20 08:50
Percent Solids: 93
Initial Volume: 8.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromodichloromethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromoform	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromomethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Carbon Disulfide	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Carbon Tetrachloride	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chloroethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chloroform	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chloromethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
cis-1,2-Dichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
cis-1,3-Dichloropropene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Dibromochloromethane	ND (0.0013)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Dibromomethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Dichlorodifluoromethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Diethyl Ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Di-isopropyl ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Ethyl tertiary-butyl ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Ethylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Hexachlorobutadiene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Isopropylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Methyl tert-Butyl Ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Methylene Chloride	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Naphthalene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
n-Butylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
n-Propylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
sec-Butylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Styrene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
tert-Butylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Tertiary-amyl methyl ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Tetrachloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Tetrahydrofuran	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Toluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Grab
Date Sampled: 03/12/20 08:50
Percent Solids: 93
Initial Volume: 8.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
trans-1,2-Dichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
trans-1,3-Dichloropropene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Trichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Trichlorofluoromethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Vinyl Chloride	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Xylene O	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Xylene P,M	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Xylenes (Total)	ND (0.00642)		8260B Low		1	03/19/20 16:58		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>109 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>82 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>112 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.93 (2.24)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Barium	57.3 (2.24)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Cadmium	ND (0.45)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Chromium	15.6 (0.90)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Lead	185 (4.48)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Mercury	0.059 (0.027)		7471B		1	MKS	03/17/20 8:35	0.8	40	DC01643
Selenium	ND (4.48)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Silver	ND (0.45)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

1311 TCLP Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	1.26 (0.050)		1311/6010C		1	KJK	03/19/20 21:08	50	50	DC01937



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 3/17/20 14:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1221	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1232	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1242	0.1 (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1248	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1254	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1260	0.06 (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1262	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1268	ND (0.05)		8082A		1	03/19/20 13:03		DC01930

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	70 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	86 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 19.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: CAD
Prepared: 3/24/20 14:49

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	876 (111)		8100M		10	03/25/20 23:42	D0C0445	DC02311
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		<i>107 %</i>		<i>40-140</i>				



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,2,4-Trichlorobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
1,2-Dichlorobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
1,3-Dichlorobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
1,4-Dichlorobenzene	ND (0.173)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4,5-Trichlorophenol	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4,6-Trichlorophenol	ND (0.169)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dichlorophenol	ND (0.171)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dimethylphenol	ND (0.155)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dinitrophenol	ND (1.15)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dinitrotoluene	ND (0.221)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,6-Dinitrotoluene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Chloronaphthalene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Chlorophenol	ND (0.194)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Methylnaphthalene	0.298 (0.148)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Methylphenol	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Nitrophenol	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
3,3'-Dichlorobenzidine	ND (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
3+4-Methylphenol	ND (1.38)		8270D		2	03/19/20 3:20	D0C0313	DC01609
4-Bromophenyl-phenylether	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
4-Chloroaniline	ND (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
4-Nitrophenol	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Acenaphthene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Acenaphthylene	1.40 (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Acetophenone	ND (1.38)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Aniline	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Anthracene	2.30 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Azobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(a)anthracene	5.58 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(a)pyrene	5.77 (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(b)fluoranthene	4.97 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(g,h,i)perylene	3.21 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(k)fluoranthene	4.00 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
bis(2-Chloroethoxy)methane	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
bis(2-Chloroethyl)ether	ND (0.186)		8270D		2	03/19/20 3:20	D0C0313	DC01609
bis(2-chloroisopropyl)Ether	ND (0.184)		8270D		2	03/19/20 3:20	D0C0313	DC01609
bis(2-Ethylhexyl)phthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Butylbenzylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Chrysene	5.41 (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Dibenzo(a,h)Anthracene	1.16 (0.105)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Dibenzofuran	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Diethylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Dimethylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Di-n-butylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Di-n-octylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Fluoranthene	11.1 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Fluorene	0.826 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Hexachlorobenzene	ND (0.115)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Hexachlorobutadiene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Hexachloroethane	ND (0.173)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Indeno(1,2,3-cd)Pyrene	3.07 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Isophorone	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Naphthalene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Nitrobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
N-Nitrosodimethylamine	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Pentachlorophenol	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Phenanthrene	8.30 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Phenol	ND (0.167)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Pyrene	10.8 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Pyridine	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	49 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	73 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	54 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
<i>Surrogate: 2-Fluorobiphenyl</i>		57 %		30-130				
<i>Surrogate: 2-Fluorophenol</i>		47 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		51 %		30-130				
<i>Surrogate: Phenol-d6</i>		53 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		78 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Corrosivity (pH)	7.15 (N/A)		9045		1	DEL	03/13/20 20:45	S.U.	DC01326
Corrosivity (pH) Sample Temp	Soil pH measured in water at 19.3 °C.								
Flashpoint	> 200 (N/A)		1010		1	CCP	03/16/20 13:30	°F	DC01620
Reactive Cyanide	ND (2.0)		7.3.3.2		1	EEM	03/16/20 10:58	mg/kg	DC01613
Reactive Sulfide	ND (2.0)		7.3.4.1		1	EEM	03/16/20 10:58	mg/kg	DC01613



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: °C
Analyst: MKS
Prepared: 3/18/20 20:15

TCLP Extraction by 1311

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Batch</u>
Temperature (Min C)	19.8 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Max C)	21.4 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Range)	Temperature is not within 23 +/-2 °C. (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DC01642 - 3050B

Blank

Arsenic	ND	2.50	mg/kg wet
Barium	ND	2.50	mg/kg wet
Cadmium	ND	0.50	mg/kg wet
Chromium	ND	1.00	mg/kg wet
Lead	ND	5.00	mg/kg wet
Selenium	ND	5.00	mg/kg wet
Silver	ND	0.50	mg/kg wet

LCS

Arsenic	187	7.69	mg/kg wet	202.0	93	80-120
Barium	320	7.69	mg/kg wet	343.0	93	80-120
Cadmium	128	1.54	mg/kg wet	149.0	86	80-120
Chromium	170	3.08	mg/kg wet	182.0	94	80-120
Lead	318	15.4	mg/kg wet	333.0	95	80-120
Selenium	158	15.4	mg/kg wet	169.0	93	80-120
Silver	45.2	1.54	mg/kg wet	48.90	92	80-120

LCS Dup

Arsenic	194	8.20	mg/kg wet	202.0	96	80-120	4	20
Barium	341	8.20	mg/kg wet	343.0	100	80-120	7	20
Cadmium	135	1.64	mg/kg wet	149.0	91	80-120	6	20
Chromium	176	3.28	mg/kg wet	182.0	97	80-120	3	20
Lead	333	16.4	mg/kg wet	333.0	100	80-120	5	20
Selenium	162	16.4	mg/kg wet	169.0	96	80-120	2	20
Silver	45.2	1.64	mg/kg wet	48.90	92	80-120	0.1	20

Batch DC01643 - 7471B

Blank

Mercury	ND	0.033	mg/kg wet
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LCS

Mercury	9.60	0.550	mg/kg wet	7.760	124	71-125
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LCS Dup

Mercury	9.15	0.574	mg/kg wet	7.760	118	71-125	5	20
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1311 TCLP Metals

Batch DC01937 - 3005A_TCLP

Blank

Lead	ND	0.050	mg/L
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LCS

Lead	0.469	0.050	mg/L	0.5000	94	80-120
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LCS Dup

Lead	0.472	0.050	mg/L	0.5000	94	80-120	0.7	20
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5035/8260B Volatile Organic Compounds / Low Level



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	0.0292	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0481		mg/kg wet	0.05000		96	70-130			
Surrogate: 4-Bromofluorobenzene	0.0448		mg/kg wet	0.05000		90	70-130			
Surrogate: Dibromofluoromethane	0.0463		mg/kg wet	0.05000		93	70-130			
Surrogate: Toluene-d8	0.0499		mg/kg wet	0.05000		100	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,1,1-Trichloroethane	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
1,1,2,2-Tetrachloroethane	0.0459	0.0020	mg/kg wet	0.05000		92	70-130			
1,1,2-Trichloroethane	0.0425	0.0050	mg/kg wet	0.05000		85	70-130			
1,1-Dichloroethane	0.0414	0.0050	mg/kg wet	0.05000		83	70-130			
1,1-Dichloroethene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
1,1-Dichloropropene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,3-Trichlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
1,2,3-Trichloropropane	0.0421	0.0050	mg/kg wet	0.05000		84	70-130			
1,2,4-Trichlorobenzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,4-Trimethylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dibromo-3-Chloropropane	0.0402	0.0050	mg/kg wet	0.05000		80	70-130			
1,2-Dibromoethane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

1,2-Dichlorobenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dichloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	70-130			
1,2-Dichloropropane	0.0419	0.0050	mg/kg wet	0.05000		84	70-130			
1,3,5-Trimethylbenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,3-Dichlorobenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,3-Dichloropropane	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
1,4-Dichlorobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,4-Dioxane	0.858	0.100	mg/kg wet	1.000		86	70-130			
2,2-Dichloropropane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
2-Butanone	0.201	0.0100	mg/kg wet	0.2500		80	70-130			
2-Chlorotoluene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
2-Hexanone	0.214	0.0100	mg/kg wet	0.2500		86	70-130			
4-Chlorotoluene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
4-Isopropyltoluene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
4-Methyl-2-Pentanone	0.208	0.0100	mg/kg wet	0.2500		83	70-130			
Acetone	0.174	0.0100	mg/kg wet	0.2500		70	70-130			
Benzene	0.0433	0.0050	mg/kg wet	0.05000		87	70-130			
Bromobenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Bromochloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Bromodichloromethane	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
Bromoform	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
Bromomethane	0.0398	0.0100	mg/kg wet	0.05000		80	70-130			
Carbon Disulfide	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
Carbon Tetrachloride	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Chlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Chloroethane	0.0373	0.0100	mg/kg wet	0.05000		75	70-130			
Chloroform	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
Chloromethane	0.0369	0.0100	mg/kg wet	0.05000		74	70-130			
cis-1,2-Dichloroethene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
cis-1,3-Dichloropropene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
Dibromochloromethane	0.0452	0.0020	mg/kg wet	0.05000		90	70-130			
Dibromomethane	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
Dichlorodifluoromethane	0.0454	0.0100	mg/kg wet	0.05000		91	70-130			
Diethyl Ether	0.0412	0.0050	mg/kg wet	0.05000		82	70-130			
Di-isopropyl ether	0.0402	0.0050	mg/kg wet	0.05000		80	70-130			
Ethyl tertiary-butyl ether	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
Ethylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
Hexachlorobutadiene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
Isopropylbenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Methyl tert-Butyl Ether	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Methylene Chloride	0.0463	0.0100	mg/kg wet	0.05000		93	70-130			
Naphthalene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
n-Butylbenzene	0.0398	0.0050	mg/kg wet	0.05000		80	70-130			
n-Propylbenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
sec-Butylbenzene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

Styrene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
tert-Butylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Tertiary-amyl methyl ether	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
Tetrachloroethene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Tetrahydrofuran	0.0374	0.0050	mg/kg wet	0.05000		75	70-130			
Toluene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
trans-1,2-Dichloroethene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
trans-1,3-Dichloropropene	0.0424	0.0050	mg/kg wet	0.05000		85	70-130			
Trichloroethene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
Trichlorofluoromethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Vinyl Chloride	0.0368	0.0100	mg/kg wet	0.05000		74	70-130			
Xylene O	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Xylene P,M	0.0946	0.0100	mg/kg wet	0.1000		95	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0472</i>		mg/kg wet	<i>0.05000</i>		<i>94</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0484</i>		mg/kg wet	<i>0.05000</i>		<i>97</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0482</i>		mg/kg wet	<i>0.05000</i>		<i>96</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0469</i>		mg/kg wet	<i>0.05000</i>		<i>94</i>	<i>70-130</i>			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	11	20	
1,1,1-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	11	20	
1,1,2,2-Tetrachloroethane	0.0495	0.0020	mg/kg wet	0.05000		99	70-130	8	20	
1,1,2-Trichloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	8	20	
1,1-Dichloroethane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	10	20	
1,1-Dichloroethene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	9	20	
1,1-Dichloropropene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	10	20	
1,2,3-Trichlorobenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	12	20	
1,2,3-Trichloropropane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	9	20	
1,2,4-Trichlorobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	10	20	
1,2,4-Trimethylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	9	20	
1,2-Dibromo-3-Chloropropane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	8	20	
1,2-Dibromoethane	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	12	20	
1,2-Dichlorobenzene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	6	20	
1,2-Dichloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	9	20	
1,2-Dichloropropane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	8	20	
1,3,5-Trimethylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	8	20	
1,3-Dichlorobenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	6	20	
1,3-Dichloropropane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	12	20	
1,4-Dichlorobenzene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	7	20	
1,4-Dioxane	0.904	0.100	mg/kg wet	1.000		90	70-130	5	20	
2,2-Dichloropropane	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	8	20	
2-Butanone	0.222	0.0100	mg/kg wet	0.2500		89	70-130	10	20	
2-Chlorotoluene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	6	20	
2-Hexanone	0.249	0.0100	mg/kg wet	0.2500		100	70-130	15	20	
4-Chlorotoluene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	7	20	
4-Isopropyltoluene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	9	20	



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

4-Methyl-2-Pentanone	0.230	0.0100	mg/kg wet	0.2500		92	70-130	10	20	
Acetone	0.216	0.0100	mg/kg wet	0.2500		86	70-130	21	20	D+
Benzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	9	20	
Bromobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	7	20	
Bromochloromethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	8	20	
Bromodichloromethane	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	9	20	
Bromoform	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	11	20	
Bromomethane	0.0492	0.0100	mg/kg wet	0.05000		98	70-130	21	20	D+
Carbon Disulfide	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	10	20	
Carbon Tetrachloride	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	9	20	
Chlorobenzene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	11	20	
Chloroethane	0.0413	0.0100	mg/kg wet	0.05000		83	70-130	10	20	
Chloroform	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	10	20	
Chloromethane	0.0412	0.0100	mg/kg wet	0.05000		82	70-130	11	20	
cis-1,2-Dichloroethene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	9	20	
cis-1,3-Dichloropropene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	8	20	
Dibromochloromethane	0.0509	0.0020	mg/kg wet	0.05000		102	70-130	12	20	
Dibromomethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	8	20	
Dichlorodifluoromethane	0.0506	0.0100	mg/kg wet	0.05000		101	70-130	11	20	
Diethyl Ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	8	20	
Di-isopropyl ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	10	20	
Ethyl tertiary-butyl ether	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	9	20	
Ethylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	10	20	
Hexachlorobutadiene	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	5	20	
Isopropylbenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	7	20	
Methyl tert-Butyl Ether	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	7	20	
Methylene Chloride	0.0483	0.0100	mg/kg wet	0.05000		97	70-130	4	20	
Naphthalene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	15	20	
n-Butylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	13	20	
n-Propylbenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	8	20	
sec-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	8	20	
Styrene	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	12	20	
tert-Butylbenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	8	20	
Tertiary-amyl methyl ether	0.0600	0.0050	mg/kg wet	0.05000		120	70-130	8	20	
Tetrachloroethene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	13	20	
Tetrahydrofuran	0.0425	0.0050	mg/kg wet	0.05000		85	70-130	13	20	
Toluene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	8	20	
trans-1,2-Dichloroethene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	10	20	
trans-1,3-Dichloropropene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	8	20	
Trichloroethene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	11	20	
Trichlorofluoromethane	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	8	20	
Vinyl Chloride	0.0415	0.0100	mg/kg wet	0.05000		83	70-130	12	20	
Xylene O	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	10	20	
Xylene P,M	0.105	0.0100	mg/kg wet	0.1000		105	70-130	10	20	
Surrogate: 1,2-Dichloroethane-d4	0.0471		mg/kg wet	0.05000		94	70-130			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
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ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

Surrogate: 4-Bromofluorobenzene	0.0493		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0481		mg/kg wet	0.05000		96	70-130			
Surrogate: Toluene-d8	0.0485		mg/kg wet	0.05000		97	70-130			

Batch DC01938 - 5035

Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							



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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0551		mg/kg wet	0.05000		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/kg wet	0.05000		98	70-130			
Surrogate: Dibromofluoromethane	0.0531		mg/kg wet	0.05000		106	70-130			
Surrogate: Toluene-d8	0.0486		mg/kg wet	0.05000		97	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
1,1,1-Trichloroethane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,1,2,2-Tetrachloroethane	0.0478	0.0020	mg/kg wet	0.05000		96	70-130			
1,1,2-Trichloroethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,1-Dichloroethene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,1-Dichloropropene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
1,2,3-Trichlorobenzene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

1,2,3-Trichloropropane	0.0422	0.0050	mg/kg wet	0.05000		84	70-130			
1,2,4-Trichlorobenzene	0.0431	0.0050	mg/kg wet	0.05000		86	70-130			
1,2,4-Trimethylbenzene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dibromo-3-Chloropropane	0.0387	0.0050	mg/kg wet	0.05000		77	70-130			
1,2-Dibromoethane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichlorobenzene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichloroethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
1,2-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
1,3,5-Trimethylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichlorobenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
1,3-Dichloropropane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,4-Dichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,4-Dioxane	0.850	0.100	mg/kg wet	1.000		85	70-130			
2,2-Dichloropropane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
2-Butanone	0.249	0.0100	mg/kg wet	0.2500		100	70-130			
2-Chlorotoluene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
2-Hexanone	0.221	0.0100	mg/kg wet	0.2500		88	70-130			
4-Chlorotoluene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
4-Isopropyltoluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
4-Methyl-2-Pentanone	0.236	0.0100	mg/kg wet	0.2500		95	70-130			
Acetone	0.244	0.0100	mg/kg wet	0.2500		97	70-130			
Benzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Bromobenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
Bromochloromethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Bromodichloromethane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
Bromoform	0.0379	0.0050	mg/kg wet	0.05000		76	70-130			
Bromomethane	0.0578	0.0100	mg/kg wet	0.05000		116	70-130			
Carbon Disulfide	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Carbon Tetrachloride	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Chlorobenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Chloroethane	0.0494	0.0100	mg/kg wet	0.05000		99	70-130			
Chloroform	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
Chloromethane	0.0472	0.0100	mg/kg wet	0.05000		94	70-130			
cis-1,2-Dichloroethene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
cis-1,3-Dichloropropene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Dibromochloromethane	0.0440	0.0020	mg/kg wet	0.05000		88	70-130			
Dibromomethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Dichlorodifluoromethane	0.0504	0.0100	mg/kg wet	0.05000		101	70-130			
Diethyl Ether	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Di-isopropyl ether	0.0513	0.0050	mg/kg wet	0.05000		103	70-130			
Ethyl tertiary-butyl ether	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Ethylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Hexachlorobutadiene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Isopropylbenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
Methyl tert-Butyl Ether	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

Methylene Chloride	0.0472	0.0100	mg/kg wet	0.05000		94	70-130			
Naphthalene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
n-Butylbenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
n-Propylbenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
sec-Butylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Styrene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
tert-Butylbenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Tetrachloroethene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
Tetrahydrofuran	0.0434	0.0050	mg/kg wet	0.05000		87	70-130			
Toluene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
trans-1,2-Dichloroethene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
trans-1,3-Dichloropropene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Trichloroethene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Trichlorofluoromethane	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
Vinyl Chloride	0.0521	0.0100	mg/kg wet	0.05000		104	70-130			
Xylene O	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Xylene P,M	0.0971	0.0100	mg/kg wet	0.1000		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0514		mg/kg wet	0.05000		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/kg wet	0.05000		100	70-130			
Surrogate: Dibromofluoromethane	0.0512		mg/kg wet	0.05000		102	70-130			
Surrogate: Toluene-d8	0.0496		mg/kg wet	0.05000		99	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	4	20	
1,1,1-Trichloroethane	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.0505	0.0020	mg/kg wet	0.05000		101	70-130	5	20	
1,1,2-Trichloroethane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	6	20	
1,1-Dichloroethane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
1,1-Dichloroethene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
1,1-Dichloropropene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	3	20	
1,2,3-Trichlorobenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	7	20	
1,2,3-Trichloropropane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	6	20	
1,2,4-Trichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	7	20	
1,2,4-Trimethylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	4	20	
1,2-Dibromo-3-Chloropropane	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	7	20	
1,2-Dibromoethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	5	20	
1,2-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	6	20	
1,2-Dichloroethane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	4	20	
1,2-Dichloropropane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	2	20	
1,3,5-Trimethylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	5	20	
1,3-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	4	20	
1,3-Dichloropropane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	5	20	
1,4-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	6	20	
1,4-Dioxane	0.942	0.100	mg/kg wet	1.000		94	70-130	10	20	
2,2-Dichloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	3	20	



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

2-Butanone	0.259	0.0100	mg/kg wet	0.2500		104	70-130	4	20	
2-Chlorotoluene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	3	20	
2-Hexanone	0.227	0.0100	mg/kg wet	0.2500		91	70-130	3	20	
4-Chlorotoluene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	4	20	
4-Isopropyltoluene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	3	20	
4-Methyl-2-Pentanone	0.246	0.0100	mg/kg wet	0.2500		98	70-130	4	20	
Acetone	0.240	0.0100	mg/kg wet	0.2500		96	70-130	1	20	
Benzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
Bromobenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	6	20	
Bromochloromethane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	6	20	
Bromodichloromethane	0.0562	0.0050	mg/kg wet	0.05000		112	70-130	5	20	
Bromoform	0.0401	0.0050	mg/kg wet	0.05000		80	70-130	6	20	
Bromomethane	0.0605	0.0100	mg/kg wet	0.05000		121	70-130	5	20	
Carbon Disulfide	0.0541	0.0050	mg/kg wet	0.05000		108	70-130	2	20	
Carbon Tetrachloride	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
Chlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	4	20	
Chloroethane	0.0505	0.0100	mg/kg wet	0.05000		101	70-130	2	20	
Chloroform	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	3	20	
Chloromethane	0.0484	0.0100	mg/kg wet	0.05000		97	70-130	2	20	
cis-1,2-Dichloroethene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	4	20	
cis-1,3-Dichloropropene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	4	20	
Dibromochloromethane	0.0466	0.0020	mg/kg wet	0.05000		93	70-130	6	20	
Dibromomethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	6	20	
Dichlorodifluoromethane	0.0512	0.0100	mg/kg wet	0.05000		102	70-130	2	20	
Diethyl Ether	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	5	20	
Di-isopropyl ether	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	4	20	
Ethyl tertiary-butyl ether	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	5	20	
Ethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	2	20	
Hexachlorobutadiene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	3	20	
Isopropylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	3	20	
Methyl tert-Butyl Ether	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	5	20	
Methylene Chloride	0.0492	0.0100	mg/kg wet	0.05000		98	70-130	4	20	
Naphthalene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	8	20	
n-Butylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	4	20	
n-Propylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	3	20	
sec-Butylbenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	3	20	
Styrene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	3	20	
tert-Butylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	4	20	
Tertiary-amyl methyl ether	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	5	20	
Tetrachloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	4	20	
Tetrahydrofuran	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	4	20	
Toluene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
trans-1,2-Dichloroethene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
trans-1,3-Dichloropropene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	6	20	
Trichloroethene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	2	20	



CERTIFICATE OF ANALYSIS

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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

Trichlorofluoromethane	0.0547	0.0050	mg/kg wet	0.05000		109	70-130	1	20	
Vinyl Chloride	0.0525	0.0100	mg/kg wet	0.05000		105	70-130	0.8	20	
Xylene O	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	2	20	
Xylene P,M	0.101	0.0100	mg/kg wet	0.1000		101	70-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/kg wet	0.05000		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0507		mg/kg wet	0.05000		101	70-130			
Surrogate: Toluene-d8	0.0496		mg/kg wet	0.05000		99	70-130			

8082A Polychlorinated Biphenyls (PCB)

Batch DC01701 - 3540C

Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0192		mg/kg wet	0.02500		77	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0184		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-xylene	0.0169		mg/kg wet	0.02500		68	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0194		mg/kg wet	0.02500		78	30-150			

LCS										
Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		86	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		89	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140			

Surrogate: Decachlorobiphenyl	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0223		mg/kg wet	0.02500		89	30-150			



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Quality Control Data

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8082A Polychlorinated Biphenyls (PCB)

Batch DC01701 - 3540C

LCS Dup										
Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		82	40-140	5	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		85	40-140	1	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		87	40-140	2	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		83	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0209		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0222		mg/kg wet	0.02500		89	30-150			

Batch DC01930 - 3540C

Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0198		mg/kg wet	0.02500		79	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0195		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene	0.0179		mg/kg wet	0.02500		72	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0208		mg/kg wet	0.02500		83	30-150			

LCS										
Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		89	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		93	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		90	40-140			
Surrogate: Decachlorobiphenyl	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
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ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DC01930 - 3540C

LCS Dup

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		86	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		88	40-140	3	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		89	40-140	4	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140	4	30	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0219</i>		mg/kg wet	<i>0.02500</i>		<i>87</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0211</i>		mg/kg wet	<i>0.02500</i>		<i>84</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0209</i>		mg/kg wet	<i>0.02500</i>		<i>84</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0230</i>		mg/kg wet	<i>0.02500</i>		<i>92</i>	<i>30-150</i>			

8100M Total Petroleum Hydrocarbons

Batch DC02311 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Hexatriacontane (C36)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	10.0	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							
<i>Surrogate: O-Terphenyl</i>	<i>5.11</i>		mg/kg wet	<i>5.000</i>		<i>102</i>	<i>40-140</i>			

LCS

Decane (C10)	1.9	0.2	mg/kg wet	2.500		77	40-140			
Docosane (C22)	2.4	0.2	mg/kg wet	2.500		97	40-140			
Dodecane (C12)	2.1	0.2	mg/kg wet	2.500		83	40-140			
Eicosane (C20)	2.4	0.2	mg/kg wet	2.500		96	40-140			
Hexacosane (C26)	2.5	0.2	mg/kg wet	2.500		99	40-140			
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		91	40-140			
Hexatriacontane (C36)	2.4	0.2	mg/kg wet	2.500		97	40-140			
Nonadecane (C19)	2.4	0.2	mg/kg wet	2.500		96	40-140			
Nonane (C9)	1.7	0.2	mg/kg wet	2.500		69	30-140			
Octacosane (C28)	2.5	0.2	mg/kg wet	2.500		99	40-140			
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Tetracosane (C24)	2.5	0.2	mg/kg wet	2.500		98	40-140			
Tetradecane (C14)	2.1	0.2	mg/kg wet	2.500		85	40-140			



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 20C0466

Quality Control Data

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8100M Total Petroleum Hydrocarbons

Batch DC02311 - 3546

Total Petroleum Hydrocarbons	32.0	10.0	mg/kg wet	35.00		91	40-140			
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		97	40-140			
<i>Surrogate: O-Terphenyl</i>	<i>5.00</i>		mg/kg wet	<i>5.000</i>		<i>100</i>	<i>40-140</i>			

LCS Dup

Decane (C10)	2.0	0.2	mg/kg wet	2.500		82	40-140	6	25	
Docosane (C22)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Dodecane (C12)	2.2	0.2	mg/kg wet	2.500		87	40-140	5	25	
Eicosane (C20)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	
Hexacosane (C26)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		94	40-140	3	25	
Hexatriacontane (C36)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	
Nonadecane (C19)	2.5	0.2	mg/kg wet	2.500		100	40-140	4	25	
Nonane (C9)	1.8	0.2	mg/kg wet	2.500		74	30-140	6	25	
Octacosane (C28)	2.6	0.2	mg/kg wet	2.500		103	40-140	4	25	
Octadecane (C18)	2.4	0.2	mg/kg wet	2.500		96	40-140	3	25	
Tetracosane (C24)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Tetradecane (C14)	2.2	0.2	mg/kg wet	2.500		89	40-140	4	25	
Total Petroleum Hydrocarbons	33.2	10.0	mg/kg wet	35.00		95	40-140	4	25	
Triacontane (C30)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	

<i>Surrogate: O-Terphenyl</i>	<i>5.07</i>		mg/kg wet	<i>5.000</i>		<i>101</i>	<i>40-140</i>			
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8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

Blank

1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.080	mg/kg wet							
1,4-Dichlorobenzene	ND	0.084	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.082	mg/kg wet							
2,4-Dichlorophenol	ND	0.083	mg/kg wet							
2,4-Dimethylphenol	ND	0.075	mg/kg wet							
2,4-Dinitrophenol	ND	0.557	mg/kg wet							
2,4-Dinitrotoluene	ND	0.107	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.094	mg/kg wet							
2-Methylnaphthalene	ND	0.072	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.167	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							



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8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

4-Chloroaniline	ND	0.167	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.167	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.090	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.089	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.051	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.056	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.084	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	0.667	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.081	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Pyridine	ND	1.67	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.46		mg/kg wet	3.333		74	30-130			
Surrogate: 2,4,6-Tribromophenol	4.47		mg/kg wet	5.000		89	30-130			
Surrogate: 2-Chlorophenol-d4	3.83		mg/kg wet	5.000		77	30-130			
Surrogate: 2-Fluorobiphenyl	2.50		mg/kg wet	3.333		75	30-130			
Surrogate: 2-Fluorophenol	3.66		mg/kg wet	5.000		73	30-130			
Surrogate: Nitrobenzene-d5	2.63		mg/kg wet	3.333		79	30-130			



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8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

Surrogate: Phenol-d6	3.82		mg/kg wet	5.000		76	30-130			
Surrogate: p-Terphenyl-d14	3.49		mg/kg wet	3.333		105	30-130			

LCS

1,2,4-Trichlorobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140			
1,2-Dichlorobenzene	2.40	0.333	mg/kg wet	3.333		72	40-140			
1,3-Dichlorobenzene	2.39	0.080	mg/kg wet	3.333		72	40-140			
1,4-Dichlorobenzene	2.37	0.084	mg/kg wet	3.333		71	40-140			
2,4,5-Trichlorophenol	3.19	0.333	mg/kg wet	3.333		96	30-130			
2,4,6-Trichlorophenol	3.06	0.082	mg/kg wet	3.333		92	30-130			
2,4-Dichlorophenol	2.78	0.083	mg/kg wet	3.333		84	30-130			
2,4-Dimethylphenol	2.79	0.075	mg/kg wet	3.333		84	30-130			
2,4-Dinitrophenol	4.22	0.557	mg/kg wet	3.333		126	30-130			
2,4-Dinitrotoluene	3.59	0.107	mg/kg wet	3.333		108	40-140			
2,6-Dinitrotoluene	3.08	0.333	mg/kg wet	3.333		92	40-140			
2-Chloronaphthalene	2.53	0.333	mg/kg wet	3.333		76	40-140			
2-Chlorophenol	2.55	0.094	mg/kg wet	3.333		77	30-130			
2-Methylnaphthalene	2.52	0.072	mg/kg wet	3.333		76	40-140			
2-Methylphenol	2.58	0.333	mg/kg wet	3.333		77	30-130			
2-Nitrophenol	2.67	0.333	mg/kg wet	3.333		80	30-130			
3,3'-Dichlorobenzidine	2.71	0.167	mg/kg wet	3.333		81	40-140			
3+4-Methylphenol	5.37	0.667	mg/kg wet	6.667		80	30-130			
4-Bromophenyl-phenylether	3.18	0.333	mg/kg wet	3.333		95	40-140			
4-Chloroaniline	1.46	0.167	mg/kg wet	3.333		44	40-140			
4-Nitrophenol	3.44	1.67	mg/kg wet	3.333		103	30-130			
Acenaphthene	2.70	0.333	mg/kg wet	3.333		81	40-140			
Acenaphthylene	2.48	0.167	mg/kg wet	3.333		75	40-140			
Acetophenone	2.41	0.667	mg/kg wet	3.333		72	40-140			
Aniline	1.74	1.67	mg/kg wet	3.333		52	40-140			
Anthracene	3.17	0.333	mg/kg wet	3.333		95	40-140			
Azobenzene	3.04	0.333	mg/kg wet	3.333		91	40-140			
Benzo(a)anthracene	3.35	0.333	mg/kg wet	3.333		100	40-140			
Benzo(a)pyrene	3.58	0.167	mg/kg wet	3.333		107	40-140			
Benzo(b)fluoranthene	3.89	0.333	mg/kg wet	3.333		117	40-140			
Benzo(g,h,i)perylene	3.45	0.333	mg/kg wet	3.333		104	40-140			
Benzo(k)fluoranthene	2.94	0.333	mg/kg wet	3.333		88	40-140			
bis(2-Chloroethoxy)methane	2.57	0.333	mg/kg wet	3.333		77	40-140			
bis(2-Chloroethyl)ether	2.55	0.090	mg/kg wet	3.333		77	40-140			
bis(2-chloroisopropyl)Ether	2.47	0.089	mg/kg wet	3.333		74	40-140			
bis(2-Ethylhexyl)phthalate	3.62	0.333	mg/kg wet	3.333		109	40-140			
Butylbenzylphthalate	3.60	0.333	mg/kg wet	3.333		108	40-140			
Chrysene	3.32	0.167	mg/kg wet	3.333		100	40-140			
Dibenzo(a,h)Anthracene	3.70	0.051	mg/kg wet	3.333		111	40-140			
Dibenzofuran	2.77	0.333	mg/kg wet	3.333		83	40-140			
Diethylphthalate	3.18	0.333	mg/kg wet	3.333		95	40-140			



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8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

Dimethylphthalate	3.05	0.333	mg/kg wet	3.333		91	40-140			
Di-n-butylphthalate	3.41	0.333	mg/kg wet	3.333		102	40-140			
Di-n-octylphthalate	3.48	0.333	mg/kg wet	3.333		104	40-140			
Fluoranthene	3.30	0.333	mg/kg wet	3.333		99	40-140			
Fluorene	3.09	0.333	mg/kg wet	3.333		93	40-140			
Hexachlorobenzene	3.15	0.056	mg/kg wet	3.333		95	40-140			
Hexachlorobutadiene	2.62	0.333	mg/kg wet	3.333		79	40-140			
Hexachloroethane	2.41	0.084	mg/kg wet	3.333		72	40-140			
Indeno(1,2,3-cd)Pyrene	3.61	0.333	mg/kg wet	3.333		108	40-140			
Isophorone	2.25	0.333	mg/kg wet	3.333		67	40-140			
Naphthalene	2.47	0.333	mg/kg wet	3.333		74	40-140			
Nitrobenzene	2.54	0.333	mg/kg wet	3.333		76	40-140			
N-Nitrosodimethylamine	2.22	0.333	mg/kg wet	3.333		67	40-140			
Pentachlorophenol	3.76	0.667	mg/kg wet	3.333		113	30-130			
Phenanthrene	3.09	0.333	mg/kg wet	3.333		93	40-140			
Phenol	2.76	0.081	mg/kg wet	3.333		83	30-130			
Pyrene	3.29	0.333	mg/kg wet	3.333		99	40-140			
Pyridine	1.94	1.67	mg/kg wet	3.333		58	40-140			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>2.49</i>		mg/kg wet	<i>3.333</i>		<i>75</i>	<i>30-130</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>5.39</i>		mg/kg wet	<i>5.000</i>		<i>108</i>	<i>30-130</i>			
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>3.94</i>		mg/kg wet	<i>5.000</i>		<i>79</i>	<i>30-130</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2.67</i>		mg/kg wet	<i>3.333</i>		<i>80</i>	<i>30-130</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>3.78</i>		mg/kg wet	<i>5.000</i>		<i>76</i>	<i>30-130</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>2.71</i>		mg/kg wet	<i>3.333</i>		<i>81</i>	<i>30-130</i>			
<i>Surrogate: Phenol-d6</i>	<i>3.98</i>		mg/kg wet	<i>5.000</i>		<i>80</i>	<i>30-130</i>			
<i>Surrogate: p-Terphenyl-d14</i>	<i>3.51</i>		mg/kg wet	<i>3.333</i>		<i>105</i>	<i>30-130</i>			

LCS Dup

1,2,4-Trichlorobenzene	2.26	0.333	mg/kg wet	3.333		68	40-140	9	30	
1,2-Dichlorobenzene	2.14	0.333	mg/kg wet	3.333		64	40-140	11	30	
1,3-Dichlorobenzene	2.12	0.080	mg/kg wet	3.333		64	40-140	12	30	
1,4-Dichlorobenzene	2.12	0.084	mg/kg wet	3.333		64	40-140	11	30	
2,4,5-Trichlorophenol	3.11	0.333	mg/kg wet	3.333		93	30-130	2	30	
2,4,6-Trichlorophenol	3.00	0.082	mg/kg wet	3.333		90	30-130	2	30	
2,4-Dichlorophenol	2.67	0.083	mg/kg wet	3.333		80	30-130	4	30	
2,4-Dimethylphenol	2.69	0.075	mg/kg wet	3.333		81	30-130	4	30	
2,4-Dinitrophenol	4.14	0.557	mg/kg wet	3.333		124	30-130	2	30	
2,4-Dinitrotoluene	3.52	0.107	mg/kg wet	3.333		106	40-140	2	30	
2,6-Dinitrotoluene	3.06	0.333	mg/kg wet	3.333		92	40-140	0.6	30	
2-Chloronaphthalene	2.46	0.333	mg/kg wet	3.333		74	40-140	3	30	
2-Chlorophenol	2.33	0.094	mg/kg wet	3.333		70	30-130	9	30	
2-Methylnaphthalene	2.42	0.072	mg/kg wet	3.333		73	40-140	4	30	
2-Methylphenol	2.41	0.333	mg/kg wet	3.333		72	30-130	7	30	
2-Nitrophenol	2.49	0.333	mg/kg wet	3.333		75	30-130	7	30	
3,3'-Dichlorobenzidine	2.83	0.167	mg/kg wet	3.333		85	40-140	4	30	
3+4-Methylphenol	5.18	0.667	mg/kg wet	6.667		78	30-130	4	30	



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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch DC01609 - 3546										
4-Bromophenyl-phenylether	3.13	0.333	mg/kg wet	3.333		94	40-140	2	30	
4-Chloroaniline	1.61	0.167	mg/kg wet	3.333		48	40-140	10	30	
4-Nitrophenol	3.37	1.67	mg/kg wet	3.333		101	30-130	2	30	
Acenaphthene	2.66	0.333	mg/kg wet	3.333		80	40-140	1	30	
Acenaphthylene	2.43	0.167	mg/kg wet	3.333		73	40-140	2	30	
Acetophenone	2.26	0.667	mg/kg wet	3.333		68	40-140	6	30	
Aniline	1.68	1.67	mg/kg wet	3.333		50	40-140	4	30	
Anthracene	3.12	0.333	mg/kg wet	3.333		94	40-140	2	30	
Azobenzene	2.98	0.333	mg/kg wet	3.333		89	40-140	2	30	
Benzo(a)anthracene	3.25	0.333	mg/kg wet	3.333		97	40-140	3	30	
Benzo(a)pyrene	3.55	0.167	mg/kg wet	3.333		106	40-140	1	30	
Benzo(b)fluoranthene	3.44	0.333	mg/kg wet	3.333		103	40-140	12	30	
Benzo(g,h,i)perylene	3.40	0.333	mg/kg wet	3.333		102	40-140	2	30	
Benzo(k)fluoranthene	3.34	0.333	mg/kg wet	3.333		100	40-140	13	30	
bis(2-Chloroethoxy)methane	2.44	0.333	mg/kg wet	3.333		73	40-140	5	30	
bis(2-Chloroethyl)ether	2.29	0.090	mg/kg wet	3.333		69	40-140	11	30	
bis(2-chloroisopropyl)Ether	2.23	0.089	mg/kg wet	3.333		67	40-140	10	30	
bis(2-Ethylhexyl)phthalate	3.56	0.333	mg/kg wet	3.333		107	40-140	2	30	
Butylbenzylphthalate	3.51	0.333	mg/kg wet	3.333		105	40-140	3	30	
Chrysene	3.23	0.167	mg/kg wet	3.333		97	40-140	3	30	
Dibenzo(a,h)Anthracene	3.63	0.051	mg/kg wet	3.333		109	40-140	2	30	
Dibenzofuran	2.74	0.333	mg/kg wet	3.333		82	40-140	1	30	
Diethylphthalate	3.16	0.333	mg/kg wet	3.333		95	40-140	0.6	30	
Dimethylphthalate	3.02	0.333	mg/kg wet	3.333		91	40-140	0.9	30	
Di-n-butylphthalate	3.35	0.333	mg/kg wet	3.333		101	40-140	2	30	
Di-n-octylphthalate	3.50	0.333	mg/kg wet	3.333		105	40-140	0.6	30	
Fluoranthene	3.20	0.333	mg/kg wet	3.333		96	40-140	3	30	
Fluorene	3.06	0.333	mg/kg wet	3.333		92	40-140	0.9	30	
Hexachlorobenzene	3.11	0.056	mg/kg wet	3.333		93	40-140	1	30	
Hexachlorobutadiene	2.36	0.333	mg/kg wet	3.333		71	40-140	11	30	
Hexachloroethane	2.14	0.084	mg/kg wet	3.333		64	40-140	12	30	
Indeno(1,2,3-cd)Pyrene	3.56	0.333	mg/kg wet	3.333		107	40-140	1	30	
Isophorone	2.16	0.333	mg/kg wet	3.333		65	40-140	4	30	
Naphthalene	2.30	0.333	mg/kg wet	3.333		69	40-140	7	30	
Nitrobenzene	2.33	0.333	mg/kg wet	3.333		70	40-140	8	30	
N-Nitrosodimethylamine	2.02	0.333	mg/kg wet	3.333		61	40-140	9	30	
Pentachlorophenol	3.67	0.667	mg/kg wet	3.333		110	30-130	2	30	
Phenanthrene	3.04	0.333	mg/kg wet	3.333		91	40-140	2	30	
Phenol	2.55	0.081	mg/kg wet	3.333		77	30-130	8	30	
Pyrene	3.21	0.333	mg/kg wet	3.333		96	40-140	2	30	
Pyridine	1.65	1.67	mg/kg wet	3.333		49	40-140	16	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.22		mg/kg wet	3.333		67	30-130			
Surrogate: 2,4,6-Tribromophenol	5.31		mg/kg wet	5.000		106	30-130			
Surrogate: 2-Chlorophenol-d4	3.61		mg/kg wet	5.000		72	30-130			
Surrogate: 2-Fluorobiphenyl	2.62		mg/kg wet	3.333		79	30-130			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

Surrogate: 2-Fluorophenol	3.44		mg/kg wet	5.000		69	30-130			
Surrogate: Nitrobenzene-d5	2.50		mg/kg wet	3.333		75	30-130			
Surrogate: Phenol-d6	3.71		mg/kg wet	5.000		74	30-130			
Surrogate: p-Terphenyl-d14	3.46		mg/kg wet	3.333		104	30-130			

Classical Chemistry

Batch DC01613 - General Preparation

Blank

Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							

LCS

Reactive Cyanide	3.8	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	ND	2.0	mg/kg	10.00		0	0-44			

Batch DC01620 - General Preparation

Reference

Flashpoint	81		°F	81.00		100	97.9-102.1			
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CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

Notes and Definitions

- Z18 Temperature is not within 23 +/-2 °C.
- Z-10a Soil pH measured in water at 19.6 °C.
- Z-10 Soil pH measured in water at 19.3 °C.
- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- EL Elevated Method Reporting Limits due to sample matrix (EL).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- CD- Continuing Calibration %Diff/Drift is below control limit (CD-).
- > Greater than.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20C0466

Shipped/Delivered Via: ESS Courier

Date Received: 3/13/2020

Project Due Date: 3/20/2020

Days for Project: 5 Day

- 1. Air bill manifest present? No
Air No.: NA
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
Temp: 3.6 Iced with: Ice
- 5. Was COC signed and dated by client? Yes

- 6. Does COC match bottles? No
- 7. Is COC complete and correct? Yes
- 8. Were samples received intact? Yes
- 9. Were labs informed about short holds & rushes? Yes / No / NA
- 10. Were any analyses received outside of hold time? Yes No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: _____
 Analysis: _____
 TAT: _____

12. Were VOAs received? Yes / No
 a. Air bubbles in aqueous VOAs? Yes / No
 b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
 b. Low Level VOA vials frozen: Date: 3/13/20 Time: 7029 By: NA

Sample Receiving Notes:

Lot1-DISP02-grab collection time coc=0850, Label=1130; Lot1-DISP02-Comp collection time coc=1130, label=0850

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	23707	Yes	N/A	Yes	VOA Vial	MeOH	
1	23709	Yes	N/A	Yes	VOA Vial	DI Water	
1	23710	Yes	N/A	Yes	VOA Vial	DI Water	
1	23713	Yes	N/A	Yes	8 oz jar	NP	
1	23714	Yes	N/A	Yes	8 oz jar	NP	
2	23708	Yes	N/A	Yes	VOA Vial	MeOH	
2	23711	Yes	N/A	Yes	VOA Vial	DI Water	
2	23712	Yes	N/A	Yes	VOA Vial	DI Water	
3	23717	Yes	N/A	Yes	8 oz jar	NP	
3	23718	Yes	N/A	Yes	8 oz jar	NP	

2nd Review

Were all containers scanned into storage/lab?

- Are barcode labels on correct containers?
- Are all Flashpoint stickers attached/container ID # circled?
- Are all Hex Chrome stickers attached?
- Are all QC stickers attached?
- Are VOA stickers attached if bubbles noted?

Initials GA
 Yes / No / NA
 Yes / No / NA / NA
 Yes / No / NA / NA
 Yes / No / NA / NA
 Yes / No / NA / NA

ESS Laboratory Sample and Cooler Receipt Checklist

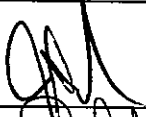
Client: GEI Consultants, Inc. - TB

ESS Project ID: 20C0466

Date Received: 3/13/2020

Completed

By:



Date & Time:

3/13/20 2012

Reviewed

By:



Date & Time:

3/13/20 2027

Delivered

By:



3/13/20 2027

Chain-of-Custody Record				Laboratory: ESS				Laboratory Job # 20C0466 (Lab use only)						
Project Information														
Project Name: Former Tombarello						Project Location: Lawrence MA								
Project Number: 1802441						Project Manager: L. Lombardo 339.221.3551								
Send Report to: Elise Farrington						Preservative								
Send EDD to: labdata@geiconsultants.com						MeOH		DI H2O		None		None		
MCP PRESUMPTIVE CERTAINTY REQUIRED:						Analysis								
YES <input checked="" type="radio"/> NO <input type="radio"/>						VOC(High Level)	VOC(Low Level)	SVOCs, RCRA 8 Metals**, Ignitability, Corrosivity, RCN/S	PCBs*	TPH (8100M) L Lombardo 3/24/2020				
If Yes, Are MCP Analytical Methods Required? YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/>														
If Yes, Are Drinking Water Samples Submitted? YES <input type="radio"/> NO <input checked="" type="radio"/> NA <input type="radio"/>														
If Yes, Have You Met Minimum Field QC Requirements? YES <input type="radio"/> NO <input type="radio"/> NA <input checked="" type="radio"/>														
Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	VOC(High Level)	VOC(Low Level)	SVOCs, RCRA 8 Metals**, Ignitability, Corrosivity, RCN/S	PCBs*	TPH (8100M) L Lombardo 3/24/2020	Sample Specific Remarks		
		Date	Time											
1	1802441-Lot1-DISP01	3/12/2020	8:40	SO	5	BRL	x	x	x	x	X			
2	1802441-Lot1-DISP02-Grab	3/12/2020	8:50	SO	3	BRL	x	x						
3	1802441-Lot1-DISP02-Comp	3/12/2020	11:30	SO	2	BRL			x	x	X			
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.						Turnaround Time (Business days):				Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.				
Relinquished by: (signature)		Date:	Time:	Received by: (signature)		Normal _____		Other _____						
1. <i>[Signature]</i>		3/13/20	1400	<i>[Signature]</i>		10-Day _____		7-Day _____						
2. <i>[Signature]</i>		3/13/20	1904	2. <i>[Signature]</i> 3/13/20		5-Day <u>X</u>		3-Day _____						
3. Relinquished by: (signature)						Additional Requirements/Comments/Remarks:								
4. Relinquished by: (signature)						* Manual Soxhlet Extraction for PCBs. Analysis must be performed in accordance with GEI's Site Specific QAPP.								
						**Run TCLP if 20x Rule Exceeded								


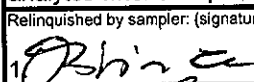
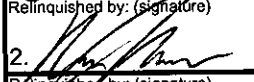
Sample Handling

Samples Field Filtered

YES NO NA

Sampled Shipped With Ice

YES NO

Chain-of-Custody Record				Laboratory: ESS				Laboratory Job # 20C0466 (Lab use only)						
Project Information												Page 1 of 8		
 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073				Project Name: Former Tombarello Project Number: 1802441 Send Report to: Elise Farrington Send EDD to: labdata@geiconsultants.com				Project Location: Lawrence MA Project Manager: L. Lombardo 339.221.3551				Sample Handling Samples Field Filtered YES NO <input checked="" type="radio"/> NA Sampled Shipped With Ice <input checked="" type="radio"/> YES NO		
MCP PRESUMPTIVE CERTAINTY REQUIRED: <input checked="" type="radio"/> YES NO				If Yes, Are MCP Analytical Methods Required? <input checked="" type="radio"/> YES NO NA If Yes, Are Drinking Water Samples Submitted? YES <input checked="" type="radio"/> NO NA If Yes, Have You Met Minimum Field QC Requirements? YES NO <input checked="" type="radio"/> NA				Preservative MeOH DI H2O None None					Analysis VOC(High Level) VOC (Low Level) SVOCs, RCRA 8 Metals** Ignitability, Corrosivity, RCN/IS PCBs*	
Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials								Sample Specific Remarks
		Date	Time											
1	1802441-Lot1-DISP01	3/12/2020	8:40	SO	5	BRL	x	x	x	x				
2	1802441-Lot1-DISP02-Grab	3/12/2020	8:50	SO	3	BRL	x	x						
3	1802441-Lot1-DISP02-Comp	3/12/2020	11:30	SO	2	BRL			x	x				
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.							Turnaround Time (Business days): Normal ____ Other ____ 10-Day ____ 7-Day ____ 5-Day <input checked="" type="checkbox"/> 3-Day ____				Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.			
Relinquished by: (signature) 1. 		Date:	Time:	Received by: (signature)		Additional Requirements/Comments/Remarks: * Manual Soxhlet Extraction for PCBs. Analysis must be performed in accordance with GEI's Site Specific QAPP. **Run TCLP if 20x Rule Exceeded								
Relinquished by: (signature) 2. 		Date:	Time:	Received by: (signature)										
Relinquished by: (signature) 3.		Date:	Time:	Received by: (signature)										
Relinquished by: (signature) 4.		Date:	Time:	Received by: (signature)										



ANALYTICAL REPORT

Lab Number:	L1940717
Client:	Crede Associates, LLC 776 Main Street Westbrook, ME 04092
ATTN:	Sean Gannon
Phone:	(207) 828-1272
Project Name:	TOMBARELLO SITE
Project Number:	17001426
Report Date:	09/20/19

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

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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-01	AS-5	SOLID	LAWRENCE, MA	09/03/19 11:05	09/06/19
L1940717-02	AS-6	SOLID	LAWRENCE, MA	09/03/19 11:15	09/06/19
L1940717-03	AS-7	SOLID	LAWRENCE, MA	09/03/19 11:20	09/06/19
L1940717-04	AS-8	SOLID	LAWRENCE, MA	09/03/19 11:25	09/06/19
L1940717-05	AS-1	SOLID	LAWRENCE, MA	09/03/19 11:45	09/06/19
L1940717-06	AS-2	SOLID	LAWRENCE, MA	09/03/19 11:50	09/06/19
L1940717-07	AS-3	SOLID	LAWRENCE, MA	09/03/19 11:55	09/06/19
L1940717-08	AS-4	SOLID	LAWRENCE, MA	09/03/19 12:05	09/06/19
L1940717-09	AS-DUP-1	SOLID	LAWRENCE, MA	09/03/19 00:00	09/06/19
L1940717-10	SB-4 (0-0.5)	SOIL	LAWRENCE, MA	09/04/19 08:30	09/06/19
L1940717-11	SB-4 (1-2)	SOIL	LAWRENCE, MA	09/04/19 08:50	09/06/19
L1940717-12	SB-4 (2-3)	SOIL	LAWRENCE, MA	09/04/19 08:40	09/06/19
L1940717-13	SB-4 (3-5)	SOIL	LAWRENCE, MA	09/04/19 09:05	09/06/19
L1940717-14	SB-4 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 09:10	09/06/19
L1940717-15	SB-4 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 09:10	09/06/19
L1940717-16	SB-3 (0-0.5)	SOIL	LAWRENCE, MA	09/04/19 09:20	09/06/19
L1940717-17	SB-3 (1-2)	SOIL	LAWRENCE, MA	09/04/19 09:25	09/06/19
L1940717-18	SB-3 (2-3)	SOIL	LAWRENCE, MA	09/04/19 09:30	09/06/19
L1940717-19	SB-3 (3-5)	SOIL	LAWRENCE, MA	09/04/19 09:35	09/06/19
L1940717-20	SB-3 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 09:40	09/06/19
L1940717-21	SB-3 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 09:40	09/06/19
L1940717-22	SB-2 (0-0.5)	SOIL	LAWRENCE, MA	09/04/19 10:00	09/06/19
L1940717-23	SB-2 (1-2)	SOIL	LAWRENCE, MA	09/04/19 10:05	09/06/19
L1940717-24	SB-2 (2-3)	SOIL	LAWRENCE, MA	09/04/19 10:07	09/06/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-25	SB-2 (3-5)	SOIL	LAWRENCE, MA	09/04/19 10:15	09/06/19
L1940717-26	SB-2 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 10:20	09/06/19
L1940717-27	SB-2 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 10:20	09/06/19
L1940717-28	E-07 (1-2)	SOIL	LAWRENCE, MA	09/04/19 11:00	09/06/19
L1940717-29	E-07 (2-3)	SOIL	LAWRENCE, MA	09/04/19 11:03	09/06/19
L1940717-30	E-07 (3-5)	SOIL	LAWRENCE, MA	09/04/19 11:06	09/06/19
L1940717-31	E-07 (5-7)	SOIL	LAWRENCE, MA	09/04/19 11:09	09/06/19
L1940717-32	E-08 (1-2)	SOIL	LAWRENCE, MA	09/04/19 11:25	09/06/19
L1940717-33	E-08 (2-3)	SOIL	LAWRENCE, MA	09/04/19 11:30	09/06/19
L1940717-34	E-08 (3-5)	SOIL	LAWRENCE, MA	09/04/19 11:35	09/06/19
L1940717-35	E-08 (5-7)	SOIL	LAWRENCE, MA	09/04/19 11:40	09/06/19
L1940717-36	D-08 (1-2)	SOIL	LAWRENCE, MA	09/04/19 11:53	09/06/19
L1940717-37	D-08 (2-3)	SOIL	LAWRENCE, MA	09/04/19 11:56	09/06/19
L1940717-38	D-08 (3-5)	SOIL	LAWRENCE, MA	09/04/19 11:59	09/06/19
L1940717-39	D-08 (5-7)	SOIL	LAWRENCE, MA	09/04/19 12:03	09/06/19
L1940717-40	D-07 (1-2)	SOIL	LAWRENCE, MA	09/04/19 12:12	09/06/19
L1940717-41	D-07 (2-3)	SOIL	LAWRENCE, MA	09/04/19 12:14	09/06/19
L1940717-42	D-07 (3-5)	SOIL	LAWRENCE, MA	09/04/19 12:20	09/06/19
L1940717-43	D-07 (5-7)	SOIL	LAWRENCE, MA	09/04/19 12:25	09/06/19
L1940717-44	D-07 (1-3)	SOIL	LAWRENCE, MA	09/04/19 12:16	09/06/19
L1940717-45	D-07 (7-9)	SOIL	LAWRENCE, MA	09/04/19 12:30	09/06/19
L1940717-46	D-06 (1-2)	SOIL	LAWRENCE, MA	09/04/19 12:50	09/06/19
L1940717-47	D-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 12:53	09/06/19
L1940717-48	D-06 (3-5)	SOIL	LAWRENCE, MA	09/04/19 12:56	09/06/19
L1940717-49	D-06 (5-7)	SOIL	LAWRENCE, MA	09/04/19 12:59	09/06/19
L1940717-50	SB-DUP-5	SOIL	LAWRENCE, MA	09/04/19 00:00	09/06/19
L1940717-51	E-06 (1-2)	SOIL	LAWRENCE, MA	09/04/19 13:22	09/06/19
L1940717-52	E-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 13:26	09/06/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-53	E-06 (3-5)	SOIL	LAWRENCE, MA	09/04/19 13:28	09/06/19
L1940717-54	E-06 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 13:35	09/06/19
L1940717-55	E-06 (1-3)	SOIL	LAWRENCE, MA	09/04/19 13:24	09/06/19
L1940717-56	E-06 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 13:35	09/06/19
L1940717-57	E-05 (1-2)	SOIL	LAWRENCE, MA	09/04/19 14:10	09/06/19
L1940717-58	E-05 (2-3)	SOIL	LAWRENCE, MA	09/04/19 14:12	09/06/19
L1940717-59	E-05 (3-5)	SOIL	LAWRENCE, MA	09/04/19 14:14	09/06/19
L1940717-60	E-05 (5-7)	SOIL	LAWRENCE, MA	09/04/19 14:16	09/06/19
L1940717-61	SB-DUP-6	SOIL	LAWRENCE, MA	09/04/19 00:00	09/06/19
L1940717-62	D-05 (1-2)	SOIL	LAWRENCE, MA	09/04/19 14:30	09/06/19
L1940717-63	D-05 (2-3)	SOIL	LAWRENCE, MA	09/04/19 14:33	09/06/19
L1940717-64	D-05 (3-5)	SOIL	LAWRENCE, MA	09/04/19 14:36	09/06/19
L1940717-65	D-05 (5-7)	SOIL	LAWRENCE, MA	09/04/19 14:39	09/06/19
L1940717-66	D-09 (1-2)	SOIL	LAWRENCE, MA	09/04/19 14:50	09/06/19
L1940717-67	D-09 (2-3)	SOIL	LAWRENCE, MA	09/04/19 14:53	09/06/19
L1940717-68	D-09 (3-5)	SOIL	LAWRENCE, MA	09/04/19 14:56	09/06/19
L1940717-69	D-09 (5-7)	SOIL	LAWRENCE, MA	09/04/19 14:59	09/06/19
L1940717-70	B-06 (1-2)	SOIL	LAWRENCE, MA	09/04/19 15:15	09/06/19
L1940717-71	B-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 15:18	09/06/19
L1940717-72	B-06 (3-5)	SOIL	LAWRENCE, MA	09/04/19 15:21	09/06/19
L1940717-73	B-06 (5-7)	SOIL	LAWRENCE, MA	09/04/19 15:24	09/06/19
L1940717-74	B-07 (1-2)	SOIL	LAWRENCE, MA	09/04/19 15:27	09/06/19
L1940717-75	B-07 (2-3)	SOIL	LAWRENCE, MA	09/04/19 15:29	09/06/19
L1940717-76	B-07 (3-5)	SOIL	LAWRENCE, MA	09/04/19 15:31	09/06/19
L1940717-77	B-07 (5-7)	SOIL	LAWRENCE, MA	09/04/19 15:33	09/06/19
L1940717-78	C-07 (1-2)	SOIL	LAWRENCE, MA	09/05/19 08:25	09/06/19
L1940717-79	C-07 (2-3)	SOIL	LAWRENCE, MA	09/05/19 08:30	09/06/19
L1940717-80	C-07 (3-5)	SOIL	LAWRENCE, MA	09/05/19 08:35	09/06/19



Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-81	C-07 (5-7)	SOIL	LAWRENCE, MA	09/05/19 08:40	09/06/19
L1940717-82	A-07 (1-2)	SOIL	LAWRENCE, MA	09/05/19 08:53	09/06/19
L1940717-83	A-07 (2-3)	SOIL	LAWRENCE, MA	09/05/19 08:56	09/06/19
L1940717-84	A-07 (3-5)	SOIL	LAWRENCE, MA	09/05/19 08:59	09/06/19
L1940717-85	A-07 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:02	09/06/19
L1940717-86	C-08 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:08	09/06/19
L1940717-87	C-08 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:11	09/06/19
L1940717-88	C-08 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:14	09/06/19
L1940717-89	C-08 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:17	09/06/19
L1940717-90	SB-DUP-4	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-91	B-08 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:28	09/06/19
L1940717-92	B-08 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:30	09/06/19
L1940717-93	B-08 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:32	09/06/19
L1940717-94	B-08 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:34	09/06/19
L1940717-95	C-09 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:40	09/06/19
L1940717-96	C-09 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:42	09/06/19
L1940717-97	C-09 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:44	09/06/19
L1940717-98	C-09 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:46	09/06/19
L1940717-99	B-09 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:53	09/06/19
L1940717-100	SB-DUP-3	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-101	B-09 (1-3)	SOIL	LAWRENCE, MA	09/05/19 09:54	09/06/19
L1940717-102	B-09 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:55	09/06/19
L1940717-103	B-09 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:57	09/06/19
L1940717-104	B-09 (5-7)-1	SOIL	LAWRENCE, MA	09/05/19 09:59	09/06/19
L1940717-105	B-09 (5-7)-2	SOIL	LAWRENCE, MA	09/05/19 10:02	09/06/19
L1940717-106	A-06 (1-2)	SOIL	LAWRENCE, MA	09/05/19 10:33	09/06/19
L1940717-107	A-06 (2-3)	SOIL	LAWRENCE, MA	09/05/19 10:36	09/06/19
L1940717-108	A-06 (3-5)	SOIL	LAWRENCE, MA	09/05/19 10:39	09/06/19



Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-109	A-06 (5-7)	SOIL	LAWRENCE, MA	09/05/19 10:42	09/06/19
L1940717-110	SB-DUP-2	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-111	B-05 (1-2)	SOIL	LAWRENCE, MA	09/05/19 10:48	09/06/19
L1940717-112	B-05 (2-3)	SOIL	LAWRENCE, MA	09/05/19 10:51	09/06/19
L1940717-113	B-05 (1-3)	SOIL	LAWRENCE, MA	09/05/19 10:54	09/06/19
L1940717-114	B-05 (3-5)-1	SOIL	LAWRENCE, MA	09/05/19 10:57	09/06/19
L1940717-115	B-05 (3-5)-2	SOIL	LAWRENCE, MA	09/05/19 10:57	09/06/19
L1940717-116	B-05 (5-7)	SOIL	LAWRENCE, MA	09/05/19 11:00	09/06/19
L1940717-117	C-05 (1-2)	SOIL	LAWRENCE, MA	09/05/19 11:12	09/06/19
L1940717-118	C-05 (2-3)	SOIL	LAWRENCE, MA	09/05/19 11:15	09/06/19
L1940717-119	C-05 (3-5)	SOIL	LAWRENCE, MA	09/05/19 11:18	09/06/19
L1940717-120	C-05 (5-7)	SOIL	LAWRENCE, MA	09/05/19 11:21	09/06/19
L1940717-121	C-06 (1-2)	SOIL	LAWRENCE, MA	09/05/19 11:32	09/06/19
L1940717-122	C-06 (2-3)	SOIL	LAWRENCE, MA	09/05/19 11:34	09/06/19
L1940717-123	C-06 (3-5)	SOIL	LAWRENCE, MA	09/05/19 11:36	09/06/19
L1940717-124	C-06 (5-7)	SOIL	LAWRENCE, MA	09/05/19 11:38	09/06/19
L1940717-125	A-05 (1-2)	SOIL	LAWRENCE, MA	09/05/19 12:12	09/06/19
L1940717-126	A-05 (2-3)	SOIL	LAWRENCE, MA	09/05/19 12:14	09/06/19
L1940717-127	A-05 (3-5)	SOIL	LAWRENCE, MA	09/05/19 12:16	09/06/19
L1940717-128	A-05 (5-7)	SOIL	LAWRENCE, MA	09/05/19 12:18	09/06/19
L1940717-129	E-02 (1-2)	SOIL	LAWRENCE, MA	09/05/19 13:05	09/06/19
L1940717-130	E-02 (2-3)	SOIL	LAWRENCE, MA	09/05/19 13:08	09/06/19
L1940717-131	E-02 (3-5)	SOIL	LAWRENCE, MA	09/05/19 13:11	09/06/19
L1940717-132	E-02 (5-7)	SOIL	LAWRENCE, MA	09/05/19 13:14	09/06/19
L1940717-133	B-04 (1-2)	SOIL	LAWRENCE, MA	09/05/19 13:20	09/06/19
L1940717-134	B-04 (2-3)	SOIL	LAWRENCE, MA	09/05/19 13:23	09/06/19
L1940717-135	B-04 (3-5)	SOIL	LAWRENCE, MA	09/05/19 13:26	09/06/19
L1940717-136	B-04 (5-7)	SOIL	LAWRENCE, MA	09/05/19 13:29	09/06/19



Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-137	SB-1 (0-0.5)	SOIL	LAWRENCE, MA	09/05/19 13:33	09/06/19
L1940717-138	SB-1 (1-2)	SOIL	LAWRENCE, MA	09/05/19 13:36	09/06/19
L1940717-139	SB-1 (2-3)	SOIL	LAWRENCE, MA	09/05/19 13:39	09/06/19
L1940717-140	SB-DUP-1	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-141	SB-1 (3-5)	SOIL	LAWRENCE, MA	09/05/19 13:42	09/06/19
L1940717-142	SB-1 (5-7)-1	SOIL	LAWRENCE, MA	09/05/19 13:45	09/06/19
L1940717-143	SB-1 (5-7)-2	SOIL	LAWRENCE, MA	09/05/19 13:48	09/06/19
L1940717-144	TRIP BLANK	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19



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MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	NO
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



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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.

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Case Narrative (continued)

Report Submission

September 20, 2019: This final report includes the results of all requested analyses.

September 17, 2019: This is a preliminary report.

MCP Related Narratives

Sample Receipt

In reference to question A:

L1940717-11, -12, -15, -17, -18, -21, -23, -24, -27, -44, -45, -50, -55, and -56: The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

Volatile Organics

L1940717-15, -27, -44, -138, and -143 were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

In reference to question G:

L1940717-12, -50, and -113: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1940717-23: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (33%) and the surrogate recovery for 1,2-dichloroethane-d4 (141%) were outside the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (34%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

The initial calibration, associated with L1940717-11, -12, -18, -27, -44, -45, -50, -55, -56, -101, -105, -

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Case Narrative (continued)

113, -115, -138, -139, -140, and -143 did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.0034), as well as the average response factor for 1,4-dioxane. The initial calibration, associated with L1940717-15, -17, -21, -23, and -24 did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0798) and 1,4-dioxane (0.0013), as well as the average response factor for 4-methyl-2-pentanone and 1,4-dioxane. In addition, the initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (175%). The continuing calibration standards, associated with L1940717-11, -12, -15, -17, -18, -21, -23, -24, -27, -44, -45, -50, -55, -56, -101, -105, -113, -115, -138, -139, -140, and -143, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

EPH

In reference to question G:

L1940717-17, -18, -21, -23, -27, -44, -50, -55, -56, -101, -105, -113, -138, -139, and -140: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1940717-27, -44, and -56: The surrogate recoveries are below the acceptance criteria for chlorooctadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L1940717-50: The surrogate recovery is outside the acceptance criteria for o-terphenyl (250%); however, the sample was not re-extracted due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report.

PCBs

L1940717-15: The sample has elevated detection limits due to limited sample volume available for analysis.

In reference to question G:

L1940717-16, -32, -40, -51, -57, -61, -66, -67, -86, -99, -100, -102, -105, -111, and -117: One or more

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Case Narrative (continued)

of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1940717-02, -32, -40, -51, -57, -61, -66, -67, -86, -99, and -100: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total Metals

In reference to question H:

The WG1284380-4/-5 MS/MSD recoveries, performed on L1940717-23, are outside the acceptance criteria for barium (65%/61%) and zinc (MSD 144%). Re-analysis of the MS yielded unacceptable recoveries for barium and zinc in the range of 30-74% or >125%. The LCS recoveries were within acceptance criteria for these analytes; therefore, no further action was taken.

The WG1284380-4/-5 MS/MSD recoveries, performed on L1940717-23, are outside the acceptance criteria for chromium (MSD 0%) and lead (0%/0%). Re-analysis of the MS yielded unacceptable recoveries for chromium and lead of <30%. The MS % recoveries are <30%, but the sample detections are above the RL. The LCS recoveries are acceptable; therefore, no further action was taken. The MS/MSD RPD for chromium (42%) is above the acceptance criteria.

The WG1284380-7/-8 MS/MSD recoveries, performed on L1940717-113, are outside the acceptance criteria for chromium (MS 70%), lead (46%/140%), and zinc (818%/64%). Re-analysis of the MS yielded unacceptable recoveries for chromium, lead, and zinc in the range of 30-74% or >125%. The LCS recoveries were within acceptance criteria for these analytes; therefore, no further action was taken. The MS/MSD RPD for zinc (77%) is above the acceptance criteria.

The WG1284469-5 MSD recovery, performed on L1940717-139, is outside the acceptance criteria for mercury (141%). Re-analysis of the MSD yielded an unacceptable recovery for mercury in the range of 30-74% or >125%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

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Case Narrative (continued)

The WG1284649-4/-5 MS/MSD recoveries, performed on L1940717-139, are outside the acceptance criteria for arsenic (149%/149%). Re-analysis of the MS yielded an unacceptable recovery for arsenic in the range of >125%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

The WG1284380-6 serial dilution analysis, associated with L1940717-23, had a %D above the acceptance criteria for barium (22%), lead (30%), and zinc (28%).

The WG1284380-9 serial dilution analysis, associated with L1940717-113, had a %D above the acceptance criteria for lead (26%) and zinc (28%).

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

Chromium, Hexavalent


LCS/LCSD SRM Lot#: ERA D101-192

In reference to question A:

L1940717-11, -12, -15, -17, -18, -21, -23, -24, -27, -44, -45, -50, -55, -56, -101, -105, -113, -115, -138, -139, -140, and -143: The analyses of pH and ORP were performed beyond the required 24hr holding time specified per the Sample Collection, Preservation, and Handling Procedures for Hexavalent Chromium (Cr(VI)) by WSC-CAM-VI B.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 09/20/19

QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 High - Westborough Lab								
8260C	Batch QC	WG1284521-3	Dichlorodifluoromethane	LCS	141	70-130	15	potential high bias
8260C	Batch QC	WG1284521-4	Dichlorodifluoromethane	LCSD	137	70-130	15	potential high bias
8260C	Batch QC	WG1284780-4	Acetone	LCSD	134	70-130	44	potential high bias
8260C	Batch QC	WG1284929-3	Chloromethane	LCS	137	70-130	138,143	potential high bias
8260C	Batch QC	WG1284929-3	Acetone	LCS	133	70-130	138,143	potential high bias
8260C	Batch QC	WG1284929-4	Chloromethane	LCSD	138	70-130	138,143	potential high bias
8260C	Batch QC	WG1284929-4	Acetone	LCSD	137	70-130	138,143	potential high bias
MCP Volatile Organics by EPA 5035 Low - Westborough Lab								
8260C	SB-2 (1-2)	L1940717-23	1,2-Dichloroethane-d4	Surrogate	141	70-130	-	potential high bias
8260C	Batch QC	WG1284397-3	Trichlorofluoromethane	LCS	132	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-3	1,2-Dichloroethane	LCS	135	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-3	Chloromethane	LCS	133	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-3	Dichlorodifluoromethane	LCS	152	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-4	1,2-Dichloroethane	LCSD	132	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-4	Chloromethane	LCSD	131	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-4	Dichlorodifluoromethane	LCSD	148	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284519-3	Dichlorodifluoromethane	LCS	141	70-130	21,23-24	potential high bias
8260C	Batch QC	WG1284519-4	Dichlorodifluoromethane	LCSD	137	70-130	21,23-24	potential high bias
8260C	Batch QC	WG1284781-4	Acetone	LCSD	134	70-130	18,105,140	potential high bias
Extractable Petroleum Hydrocarbons - Westborough Lab								
EPH-04-1.1	SB-2 (5-7)-2	L1940717-27 D	Chloro-Octadecane	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	SB-2 (5-7)-2	L1940717-27 D	o-Terphenyl	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	D-07 (1-3)	L1940717-44 D	Chloro-Octadecane	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	D-07 (1-3)	L1940717-44 D	o-Terphenyl	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	SB-DUP-5	L1940717-50 D	o-Terphenyl	Surrogate	250	40-140	-	potential high bias
EPH-04-1.1	E-06 (5-7)-2	L1940717-56 D	Chloro-Octadecane	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	E-06 (5-7)-2	L1940717-56 D	o-Terphenyl	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	Batch QC	WG1283558-3	C9-C18 Aliphatics	LCSD	27	25	45,50,55-56,143	non-directional bias



QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
EPH-04-1.1	Batch QC	WG1283558-3	Naphthalene	LCSD	29	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	2-Methylnaphthalene	LCSD	28	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Acenaphthylene	LCSD	27	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Acenaphthene	LCSD	27	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Nonane (C9)	LCSD	33	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Decane (C10)	LCSD	31	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Dodecane (C12)	LCSD	31	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Tetradecane (C14)	LCSD	30	25	45,50,55-56,143	non-directional bias
MCP Polychlorinated Biphenyls - Westborough Lab								
8082A	AS-6	L1940717-02 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	AS-6	L1940717-02 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	AS-6	L1940717-02 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	AS-6	L1940717-02 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (2-3)	L1940717-102 D	Decachlorobiphenyl (B)	Surrogate	181	30-150	-	potential high bias
8082A	B-09 (5-7)-2	L1940717-105 D	Decachlorobiphenyl (B)	Surrogate	167	30-150	-	potential high bias
8082A	A-05 (2-3)	L1940717-126	Decachlorobiphenyl (B)	Surrogate	158	30-150	-	potential high bias
8082A	SB-4 (5-7)-2	L1940717-15	Decachlorobiphenyl (A)	Surrogate	27	30-150	-	potential low bias
8082A	E-08 (1-2)	L1940717-32 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-08 (1-2)	L1940717-32 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-08 (1-2)	L1940717-32 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-08 (1-2)	L1940717-32 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --



QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8082A	D-07 (1-2)	L1940717-40 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-07 (1-2)	L1940717-40 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-07 (1-2)	L1940717-40 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-07 (1-2)	L1940717-40 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (2-3)	L1940717-52	Decachlorobiphenyl (B)	Surrogate	163	30-150	-	potential high bias
8082A	E-05 (1-2)	L1940717-57 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-05 (1-2)	L1940717-57 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-05 (1-2)	L1940717-57 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-05 (1-2)	L1940717-57 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --



QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8082A	C-08 (2-3)	L1940717-87	Decachlorobiphenyl (B)	Surrogate	153	30-150	-	potential high bias
8082A	SB-DUP-4	L1940717-90	Decachlorobiphenyl (B)	Surrogate	158	30-150	-	potential high bias
8082A	B-09 (1-2)	L1940717-99 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (1-2)	L1940717-99 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (1-2)	L1940717-99 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (1-2)	L1940717-99 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
MCP Total Metals - Mansfield Lab								
6010D	Batch QC (L1940717-23)	WG1284380-4	Barium, Total	MS	65	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-4	Lead, Total	MS	0	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Barium, Total	MSD	61	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Chromium, Total	MSD	0	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias



QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
6010D	Batch QC (L1940717-23)	WG1284380-5	Chromium, Total	MSD	42	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Lead, Total	MSD	0	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Zinc, Total	MSD	144	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential high bias
6010D	Batch QC (L1940717-23)	WG1284380-6	Barium, Total	SERDIL	22	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-23)	WG1284380-6	Lead, Total	SERDIL	30	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-23)	WG1284380-6	Zinc, Total	SERDIL	28	35	11-12,15,17-	non-directional bias



QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
6010D	Batch QC (L1940717-113)	WG1284380-7	Chromium, Total	MS	70	75-125	18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-113)	WG1284380-7	Lead, Total	MS	46	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-113)	WG1284380-7	Zinc, Total	MS	818	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential high bias
6010D	Batch QC (L1940717-113)	WG1284380-8	Lead, Total	MSD	140	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential high bias
6010D	Batch QC (L1940717-113)	WG1284380-8	Zinc, Total	MSD	64	75-125	11-12,15,17-18,21,23-24,27,44-	potential low bias



QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
6010D	Batch QC (L1940717-113)	WG1284380-8	Zinc, Total	MSD	77	35	45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-113)	WG1284380-9	Lead, Total	SERDIL	26	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-113)	WG1284380-9	Zinc, Total	SERDIL	28	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-139)	WG1284649-4	Arsenic, Total	MS	149	75-125	139,143	potential high bias
6010D	Batch QC (L1940717-139)	WG1284649-5	Arsenic, Total	MSD	149	75-125	139,143	potential high bias
7471B	Batch QC (L1940717-139)	WG1284469-5	Mercury, Total	MSD	141	75-125	139	potential high bias



ORGANICS

VOLATILES

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
 Client ID: SB-4 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 20:33
 Analyst: NLK
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.74	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	0.74	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	--	1
Tetrachloroethene	ND		ug/kg	0.37	--	1
Chlorobenzene	ND		ug/kg	0.37	--	1
Trichlorofluoromethane	ND		ug/kg	3.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	--	1
Bromodichloromethane	ND		ug/kg	0.37	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.37	--	1
1,1-Dichloropropene	ND		ug/kg	0.37	--	1
Bromoform	ND		ug/kg	3.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Benzene	ND		ug/kg	0.37	--	1
Toluene	ND		ug/kg	0.74	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	3.0	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	0.74	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11

Date Collected: 09/04/19 08:50

Client ID: SB-4 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.37	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	7.4	--	1
o-Xylene	ND		ug/kg	0.74	--	1
Xylenes, Total	ND		ug/kg	0.74	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	1.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.5	--	1
Styrene	ND		ug/kg	0.74	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	100		ug/kg	7.4	--	1
Carbon disulfide	ND		ug/kg	7.4	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	1.5	--	1
Tetrahydrofuran	ND		ug/kg	3.0	--	1
2,2-Dichloropropane	ND		ug/kg	1.5	--	1
1,2-Dibromoethane	ND		ug/kg	0.74	--	1
1,3-Dichloropropane	ND		ug/kg	1.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Bromobenzene	ND		ug/kg	1.5	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	1.5	--	1
o-Chlorotoluene	ND		ug/kg	1.5	--	1
p-Chlorotoluene	ND		ug/kg	1.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	3.0	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	3.0	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
Client ID: SB-4 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	--	1
Diethyl ether	ND		ug/kg	1.5	--	1
Diisopropyl Ether	ND		ug/kg	1.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.5	--	1
1,4-Dioxane	ND		ug/kg	1.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
Client ID: SB-4 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/15/19 19:20
Analyst: NLK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	260	--	1
1,1-Dichloroethane	ND		ug/kg	52	--	1
Chloroform	ND		ug/kg	78	--	1
Carbon tetrachloride	ND		ug/kg	52	--	1
1,2-Dichloropropane	ND		ug/kg	52	--	1
Dibromochloromethane	ND		ug/kg	52	--	1
1,1,2-Trichloroethane	ND		ug/kg	52	--	1
Tetrachloroethene	ND		ug/kg	26	--	1
Chlorobenzene	ND		ug/kg	26	--	1
Trichlorofluoromethane	ND		ug/kg	210	--	1
1,2-Dichloroethane	ND		ug/kg	52	--	1
1,1,1-Trichloroethane	ND		ug/kg	26	--	1
Bromodichloromethane	ND		ug/kg	26	--	1
trans-1,3-Dichloropropene	ND		ug/kg	52	--	1
cis-1,3-Dichloropropene	ND		ug/kg	26	--	1
1,3-Dichloropropene, Total	ND		ug/kg	26	--	1
1,1-Dichloropropene	ND		ug/kg	26	--	1
Bromoform	ND		ug/kg	210	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	26	--	1
Benzene	ND		ug/kg	26	--	1
Toluene	ND		ug/kg	52	--	1
Ethylbenzene	ND		ug/kg	52	--	1
Chloromethane	ND		ug/kg	210	--	1
Bromomethane	ND		ug/kg	100	--	1
Vinyl chloride	ND		ug/kg	52	--	1
Chloroethane	ND		ug/kg	100	--	1
1,1-Dichloroethene	ND		ug/kg	52	--	1
trans-1,2-Dichloroethene	ND		ug/kg	78	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-12

Date Collected: 09/04/19 08:40

Client ID: SB-4 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	100		ug/kg	26	--	1
1,2-Dichlorobenzene	ND		ug/kg	100	--	1
1,3-Dichlorobenzene	ND		ug/kg	100	--	1
1,4-Dichlorobenzene	ND		ug/kg	100	--	1
Methyl tert butyl ether	ND		ug/kg	100	--	1
p/m-Xylene	ND		ug/kg	100	--	1
o-Xylene	ND		ug/kg	52	--	1
Xylenes, Total	ND		ug/kg	52	--	1
cis-1,2-Dichloroethene	ND		ug/kg	52	--	1
1,2-Dichloroethene, Total	ND		ug/kg	52	--	1
Dibromomethane	ND		ug/kg	100	--	1
1,2,3-Trichloropropane	ND		ug/kg	100	--	1
Styrene	ND		ug/kg	52	--	1
Dichlorodifluoromethane	ND		ug/kg	520	--	1
Acetone	ND		ug/kg	520	--	1
Carbon disulfide	ND		ug/kg	520	--	1
Methyl ethyl ketone	ND		ug/kg	520	--	1
Methyl isobutyl ketone	ND		ug/kg	520	--	1
2-Hexanone	ND		ug/kg	520	--	1
Bromochloromethane	ND		ug/kg	100	--	1
Tetrahydrofuran	ND		ug/kg	210	--	1
2,2-Dichloropropane	ND		ug/kg	100	--	1
1,2-Dibromoethane	ND		ug/kg	52	--	1
1,3-Dichloropropane	ND		ug/kg	100	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	26	--	1
Bromobenzene	ND		ug/kg	100	--	1
n-Butylbenzene	ND		ug/kg	52	--	1
sec-Butylbenzene	ND		ug/kg	52	--	1
tert-Butylbenzene	ND		ug/kg	100	--	1
o-Chlorotoluene	ND		ug/kg	100	--	1
p-Chlorotoluene	ND		ug/kg	100	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Isopropylbenzene	ND		ug/kg	52	--	1
p-Isopropyltoluene	ND		ug/kg	52	--	1
Naphthalene	ND		ug/kg	210	--	1
n-Propylbenzene	ND		ug/kg	52	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
Client ID: SB-4 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	100	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	100	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	100	--	1
Diethyl ether	ND		ug/kg	100	--	1
Diisopropyl Ether	ND		ug/kg	100	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--	1
1,4-Dioxane	ND		ug/kg	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/14/19 13:27
 Analyst: KJD
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.9	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.62	--	1
Chlorobenzene	ND		ug/kg	0.62	--	1
Trichlorofluoromethane	ND		ug/kg	5.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	--	1
Bromodichloromethane	ND		ug/kg	0.62	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	--	1
1,1-Dichloropropene	ND		ug/kg	0.62	--	1
Bromoform	ND		ug/kg	5.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Benzene	ND		ug/kg	0.62	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	5.0	--	1
Bromomethane	ND		ug/kg	2.5	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.5	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15

Date Collected: 09/04/19 09:10

Client ID: SB-4 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	--	1
Methyl tert butyl ether	ND		ug/kg	2.5	--	1
p/m-Xylene	ND		ug/kg	2.5	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	480	E	ug/kg	12	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.5	--	1
Tetrahydrofuran	ND		ug/kg	5.0	--	1
2,2-Dichloropropane	ND		ug/kg	2.5	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Bromobenzene	ND		ug/kg	2.5	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.5	--	1
o-Chlorotoluene	ND		ug/kg	2.5	--	1
p-Chlorotoluene	ND		ug/kg	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	--	1
Hexachlorobutadiene	ND		ug/kg	5.0	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	5.0	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
Client ID: SB-4 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	--	1
Diethyl ether	ND		ug/kg	2.5	--	1
Diisopropyl Ether	ND		ug/kg	2.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.5	--	1
1,4-Dioxane	ND		ug/kg	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	109		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 17:18
 Analyst: NLK
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	610	--	1
1,1-Dichloroethane	ND		ug/kg	120	--	1
Chloroform	ND		ug/kg	180	--	1
Carbon tetrachloride	ND		ug/kg	120	--	1
1,2-Dichloropropane	ND		ug/kg	120	--	1
Dibromochloromethane	ND		ug/kg	120	--	1
1,1,2-Trichloroethane	ND		ug/kg	120	--	1
Tetrachloroethene	ND		ug/kg	61	--	1
Chlorobenzene	ND		ug/kg	61	--	1
Trichlorofluoromethane	ND		ug/kg	490	--	1
1,2-Dichloroethane	ND		ug/kg	120	--	1
1,1,1-Trichloroethane	ND		ug/kg	61	--	1
Bromodichloromethane	ND		ug/kg	61	--	1
trans-1,3-Dichloropropene	ND		ug/kg	120	--	1
cis-1,3-Dichloropropene	ND		ug/kg	61	--	1
1,3-Dichloropropene, Total	ND		ug/kg	61	--	1
1,1-Dichloropropene	ND		ug/kg	61	--	1
Bromoform	ND		ug/kg	490	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	61	--	1
Benzene	ND		ug/kg	61	--	1
Toluene	ND		ug/kg	120	--	1
Ethylbenzene	ND		ug/kg	120	--	1
Chloromethane	ND		ug/kg	490	--	1
Bromomethane	ND		ug/kg	240	--	1
Vinyl chloride	ND		ug/kg	120	--	1
Chloroethane	ND		ug/kg	240	--	1
1,1-Dichloroethene	ND		ug/kg	120	--	1
trans-1,2-Dichloroethene	ND		ug/kg	180	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	61	--	1
1,2-Dichlorobenzene	ND		ug/kg	240	--	1
1,3-Dichlorobenzene	ND		ug/kg	240	--	1
1,4-Dichlorobenzene	ND		ug/kg	240	--	1
Methyl tert butyl ether	ND		ug/kg	240	--	1
p/m-Xylene	ND		ug/kg	240	--	1
o-Xylene	ND		ug/kg	120	--	1
Xylenes, Total	ND		ug/kg	120	--	1
cis-1,2-Dichloroethene	ND		ug/kg	120	--	1
1,2-Dichloroethene, Total	ND		ug/kg	120	--	1
Dibromomethane	ND		ug/kg	240	--	1
1,2,3-Trichloropropane	ND		ug/kg	240	--	1
Styrene	ND		ug/kg	120	--	1
Dichlorodifluoromethane	ND		ug/kg	1200	--	1
Acetone	ND		ug/kg	1200	--	1
Carbon disulfide	ND		ug/kg	1200	--	1
Methyl ethyl ketone	ND		ug/kg	1200	--	1
Methyl isobutyl ketone	ND		ug/kg	1200	--	1
2-Hexanone	ND		ug/kg	1200	--	1
Bromochloromethane	ND		ug/kg	240	--	1
Tetrahydrofuran	ND		ug/kg	490	--	1
2,2-Dichloropropane	ND		ug/kg	240	--	1
1,2-Dibromoethane	ND		ug/kg	120	--	1
1,3-Dichloropropane	ND		ug/kg	240	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	61	--	1
Bromobenzene	ND		ug/kg	240	--	1
n-Butylbenzene	ND		ug/kg	120	--	1
sec-Butylbenzene	ND		ug/kg	120	--	1
tert-Butylbenzene	ND		ug/kg	240	--	1
o-Chlorotoluene	ND		ug/kg	240	--	1
p-Chlorotoluene	ND		ug/kg	240	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	--	1
Hexachlorobutadiene	ND		ug/kg	490	--	1
Isopropylbenzene	ND		ug/kg	120	--	1
p-Isopropyltoluene	ND		ug/kg	120	--	1
Naphthalene	ND		ug/kg	490	--	1
n-Propylbenzene	ND		ug/kg	120	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
Client ID: SB-4 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	240	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	240	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	240	--	1
Diethyl ether	ND		ug/kg	240	--	1
Diisopropyl Ether	ND		ug/kg	240	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	240	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	240	--	1
1,4-Dioxane	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	106		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
 Client ID: SB-3 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/14/19 13:53
 Analyst: KJD
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.74	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	0.74	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	--	1
Tetrachloroethene	ND		ug/kg	0.37	--	1
Chlorobenzene	ND		ug/kg	0.37	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	--	1
Bromodichloromethane	ND		ug/kg	0.37	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.37	--	1
1,1-Dichloropropene	ND		ug/kg	0.37	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Benzene	ND		ug/kg	0.37	--	1
Toluene	ND		ug/kg	0.74	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	0.74	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
 Client ID: SB-3 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.5		ug/kg	0.37	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	7.4	--	1
o-Xylene	ND		ug/kg	0.74	--	1
Xylenes, Total	ND		ug/kg	0.74	--	1
cis-1,2-Dichloroethene	1.4		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	1.4		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	1.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.5	--	1
Styrene	ND		ug/kg	0.74	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	140		ug/kg	7.4	--	1
Carbon disulfide	ND		ug/kg	7.4	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	1.5	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.5	--	1
1,2-Dibromoethane	ND		ug/kg	0.74	--	1
1,3-Dichloropropane	ND		ug/kg	1.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Bromobenzene	ND		ug/kg	1.5	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	1.5	--	1
o-Chlorotoluene	ND		ug/kg	1.5	--	1
p-Chlorotoluene	ND		ug/kg	1.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
Client ID: SB-3 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	--	1
Diethyl ether	ND		ug/kg	1.5	--	1
Diisopropyl Ether	ND		ug/kg	1.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.5	--	1
1,4-Dioxane	ND		ug/kg	1.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18
 Client ID: SB-3 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 09:45
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.72	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	0.72	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.72	--	1
Tetrachloroethene	0.8		ug/kg	0.36	--	1
Chlorobenzene	ND		ug/kg	0.36	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	--	1
Bromodichloromethane	ND		ug/kg	0.36	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	--	1
1,1-Dichloropropene	ND		ug/kg	0.36	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Benzene	ND		ug/kg	0.36	--	1
Toluene	ND		ug/kg	0.72	--	1
Ethylbenzene	ND		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	0.72	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18
Client ID: SB-3 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.79		ug/kg	0.36	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	0.72	--	1
Xylenes, Total	ND		ug/kg	0.72	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	1.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	--	1
Styrene	ND		ug/kg	0.72	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	100		ug/kg	7.2	--	1
Carbon disulfide	ND		ug/kg	7.2	--	1
Methyl ethyl ketone	ND		ug/kg	7.2	--	1
Methyl isobutyl ketone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	1.4	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.4	--	1
1,2-Dibromoethane	ND		ug/kg	0.72	--	1
1,3-Dichloropropane	ND		ug/kg	1.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Bromobenzene	ND		ug/kg	1.4	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	1.4	--	1
o-Chlorotoluene	ND		ug/kg	1.4	--	1
p-Chlorotoluene	ND		ug/kg	1.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18
Client ID: SB-3 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	--	1
Diethyl ether	ND		ug/kg	1.4	--	1
Diisopropyl Ether	ND		ug/kg	1.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	--	1
1,4-Dioxane	ND		ug/kg	1.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
Client ID: SB-3 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/15/19 15:33
Analyst: NLK
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.95	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.95	--	1
1,2-Dichloropropane	ND		ug/kg	0.95	--	1
Dibromochloromethane	ND		ug/kg	0.95	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	--	1
Tetrachloroethene	ND		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.95	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.95	--	1
Ethylbenzene	ND		ug/kg	0.95	--	1
Chloromethane	ND		ug/kg	3.8	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.95	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.95	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-21

Date Collected: 09/04/19 09:40

Client ID: SB-3 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.9		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.95	--	1
Xylenes, Total	ND		ug/kg	0.95	--	1
cis-1,2-Dichloroethene	4.0		ug/kg	0.95	--	1
1,2-Dichloroethene, Total	4.0		ug/kg	0.95	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.95	--	1
Dichlorodifluoromethane	ND		ug/kg	9.5	--	1
Acetone	260		ug/kg	9.5	--	1
Carbon disulfide	ND		ug/kg	9.5	--	1
Methyl ethyl ketone	ND		ug/kg	9.5	--	1
Methyl isobutyl ketone	ND		ug/kg	9.5	--	1
2-Hexanone	ND		ug/kg	9.5	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.95	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.95	--	1
sec-Butylbenzene	ND		ug/kg	0.95	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.95	--	1
p-Isopropyltoluene	ND		ug/kg	0.95	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.95	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
Client ID: SB-3 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	111		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/14/19 15:11
Analyst: KJD
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	1.0	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	ND		ug/kg	0.52	--	1
Chlorobenzene	ND		ug/kg	0.52	--	1
Trichlorofluoromethane	ND		ug/kg	4.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	--	1
Bromodichloromethane	ND		ug/kg	0.52	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	--	1
1,1-Dichloropropene	ND		ug/kg	0.52	--	1
Bromoform	ND		ug/kg	4.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	--	1
Benzene	ND		ug/kg	0.52	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.2	--	1
Bromomethane	ND		ug/kg	2.1	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	2.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23

Date Collected: 09/04/19 10:05

Client ID: SB-2 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	--	1
Methyl tert butyl ether	ND		ug/kg	2.1	--	1
p/m-Xylene	ND		ug/kg	2.1	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	2.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	ND		ug/kg	10	--	1
Carbon disulfide	ND		ug/kg	10	--	1
Methyl ethyl ketone	ND		ug/kg	10	--	1
Methyl isobutyl ketone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	2.1	--	1
Tetrahydrofuran	ND		ug/kg	4.2	--	1
2,2-Dichloropropane	ND		ug/kg	2.1	--	1
1,2-Dibromoethane	ND		ug/kg	1.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	--	1
Bromobenzene	ND		ug/kg	2.1	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	2.1	--	1
o-Chlorotoluene	ND		ug/kg	2.1	--	1
p-Chlorotoluene	ND		ug/kg	2.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	4.2	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.2	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	--	1
Diethyl ether	ND		ug/kg	2.1	--	1
Diisopropyl Ether	ND		ug/kg	2.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.1	--	1
1,4-Dioxane	ND		ug/kg	33	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	141	Q	70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	114		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 R
 Client ID: SB-2 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 15:59
 Analyst: NLK
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.85	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.85	--	1
1,2-Dichloropropane	ND		ug/kg	0.85	--	1
Dibromochloromethane	ND		ug/kg	0.85	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.85	--	1
Tetrachloroethene	ND		ug/kg	0.42	--	1
Chlorobenzene	ND		ug/kg	0.42	--	1
Trichlorofluoromethane	ND		ug/kg	3.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.85	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	--	1
Bromodichloromethane	ND		ug/kg	0.42	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	--	1
1,1-Dichloropropene	ND		ug/kg	0.42	--	1
Bromoform	ND		ug/kg	3.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Benzene	ND		ug/kg	0.42	--	1
Toluene	ND		ug/kg	0.85	--	1
Ethylbenzene	ND		ug/kg	0.85	--	1
Chloromethane	ND		ug/kg	3.4	--	1
Bromomethane	ND		ug/kg	1.7	--	1
Vinyl chloride	ND		ug/kg	0.85	--	1
Chloroethane	ND		ug/kg	1.7	--	1
1,1-Dichloroethene	ND		ug/kg	0.85	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 R

Date Collected: 09/04/19 10:05

Client ID: SB-2 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.7	--	1
p/m-Xylene	ND		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	0.85	--	1
Xylenes, Total	ND		ug/kg	0.85	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.85	--	1
Dibromomethane	ND		ug/kg	1.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	--	1
Styrene	ND		ug/kg	0.85	--	1
Dichlorodifluoromethane	ND		ug/kg	8.5	--	1
Acetone	19		ug/kg	8.5	--	1
Carbon disulfide	ND		ug/kg	8.5	--	1
Methyl ethyl ketone	ND		ug/kg	8.5	--	1
Methyl isobutyl ketone	ND		ug/kg	8.5	--	1
2-Hexanone	ND		ug/kg	8.5	--	1
Bromochloromethane	ND		ug/kg	1.7	--	1
Tetrahydrofuran	ND		ug/kg	3.4	--	1
2,2-Dichloropropane	ND		ug/kg	1.7	--	1
1,2-Dibromoethane	ND		ug/kg	0.85	--	1
1,3-Dichloropropane	ND		ug/kg	1.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Bromobenzene	ND		ug/kg	1.7	--	1
n-Butylbenzene	ND		ug/kg	0.85	--	1
sec-Butylbenzene	ND		ug/kg	0.85	--	1
tert-Butylbenzene	ND		ug/kg	1.7	--	1
o-Chlorotoluene	ND		ug/kg	1.7	--	1
p-Chlorotoluene	ND		ug/kg	1.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	--	1
Hexachlorobutadiene	ND		ug/kg	3.4	--	1
Isopropylbenzene	ND		ug/kg	0.85	--	1
p-Isopropyltoluene	ND		ug/kg	0.85	--	1
Naphthalene	24		ug/kg	3.4	--	1
n-Propylbenzene	ND		ug/kg	0.85	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 R
Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	--	1
Diethyl ether	ND		ug/kg	1.7	--	1
Diisopropyl Ether	ND		ug/kg	1.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.7	--	1
1,4-Dioxane	ND		ug/kg	1.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	110		70-130

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
Client ID: SB-2 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/15/19 15:07
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.97	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.97	--	1
1,2-Dichloropropane	ND		ug/kg	0.97	--	1
Dibromochloromethane	ND		ug/kg	0.97	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	--	1
Tetrachloroethene	0.61		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.97	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.97	--	1
Ethylbenzene	ND		ug/kg	0.97	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.97	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.97	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
Client ID: SB-2 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.97	--	1
Xylenes, Total	ND		ug/kg	0.97	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.97	--	1
Dichlorodifluoromethane	ND		ug/kg	9.7	--	1
Acetone	120		ug/kg	9.7	--	1
Carbon disulfide	ND		ug/kg	9.7	--	1
Methyl ethyl ketone	ND		ug/kg	9.7	--	1
Methyl isobutyl ketone	ND		ug/kg	9.7	--	1
2-Hexanone	ND		ug/kg	9.7	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.97	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.97	--	1
sec-Butylbenzene	ND		ug/kg	0.97	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1
Isopropylbenzene	ND		ug/kg	0.97	--	1
p-Isopropyltoluene	ND		ug/kg	0.97	--	1
Naphthalene	ND		ug/kg	3.9	--	1
n-Propylbenzene	ND		ug/kg	0.97	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
Client ID: SB-2 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	109		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/14/19 16:15
 Analyst: JC
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.3	--	1
Chloroform	ND		ug/kg	2.0	--	1
Carbon tetrachloride	ND		ug/kg	1.3	--	1
1,2-Dichloropropane	ND		ug/kg	1.3	--	1
Dibromochloromethane	ND		ug/kg	1.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	--	1
Tetrachloroethene	ND		ug/kg	0.66	--	1
Chlorobenzene	ND		ug/kg	0.66	--	1
Trichlorofluoromethane	ND		ug/kg	5.3	--	1
1,2-Dichloroethane	ND		ug/kg	1.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	--	1
Bromodichloromethane	ND		ug/kg	0.66	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	--	1
1,1-Dichloropropene	ND		ug/kg	0.66	--	1
Bromoform	ND		ug/kg	5.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Benzene	ND		ug/kg	0.66	--	1
Toluene	ND		ug/kg	1.3	--	1
Ethylbenzene	ND		ug/kg	1.3	--	1
Chloromethane	ND		ug/kg	5.3	--	1
Bromomethane	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	1.3	--	1
Chloroethane	ND		ug/kg	2.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	7.0		ug/kg	0.66	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	--	1
Methyl tert butyl ether	ND		ug/kg	2.6	--	1
p/m-Xylene	ND		ug/kg	2.6	--	1
o-Xylene	ND		ug/kg	1.3	--	1
Xylenes, Total	ND		ug/kg	1.3	--	1
cis-1,2-Dichloroethene	4.8		ug/kg	1.3	--	1
1,2-Dichloroethene, Total	4.8		ug/kg	1.3	--	1
Dibromomethane	ND		ug/kg	2.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	--	1
Styrene	ND		ug/kg	1.3	--	1
Dichlorodifluoromethane	ND		ug/kg	13	--	1
Acetone	440	E	ug/kg	13	--	1
Carbon disulfide	ND		ug/kg	13	--	1
Methyl ethyl ketone	ND		ug/kg	13	--	1
Methyl isobutyl ketone	ND		ug/kg	13	--	1
2-Hexanone	ND		ug/kg	13	--	1
Bromochloromethane	ND		ug/kg	2.6	--	1
Tetrahydrofuran	ND		ug/kg	5.3	--	1
2,2-Dichloropropane	ND		ug/kg	2.6	--	1
1,2-Dibromoethane	ND		ug/kg	1.3	--	1
1,3-Dichloropropane	ND		ug/kg	2.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Bromobenzene	ND		ug/kg	2.6	--	1
n-Butylbenzene	ND		ug/kg	1.3	--	1
sec-Butylbenzene	ND		ug/kg	1.3	--	1
tert-Butylbenzene	ND		ug/kg	2.6	--	1
o-Chlorotoluene	ND		ug/kg	2.6	--	1
p-Chlorotoluene	ND		ug/kg	2.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	--	1
Hexachlorobutadiene	ND		ug/kg	5.3	--	1
Isopropylbenzene	ND		ug/kg	1.3	--	1
p-Isopropyltoluene	ND		ug/kg	1.3	--	1
Naphthalene	ND		ug/kg	5.3	--	1
n-Propylbenzene	ND		ug/kg	1.3	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	--	1
Diethyl ether	ND		ug/kg	2.6	--	1
Diisopropyl Ether	ND		ug/kg	2.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.6	--	1
1,4-Dioxane	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/17/19 12:15
 Analyst: NLK
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	520	--	1
1,1-Dichloroethane	ND		ug/kg	100	--	1
Chloroform	ND		ug/kg	150	--	1
Carbon tetrachloride	ND		ug/kg	100	--	1
1,2-Dichloropropane	ND		ug/kg	100	--	1
Dibromochloromethane	ND		ug/kg	100	--	1
1,1,2-Trichloroethane	ND		ug/kg	100	--	1
Tetrachloroethene	ND		ug/kg	52	--	1
Chlorobenzene	ND		ug/kg	52	--	1
Trichlorofluoromethane	ND		ug/kg	410	--	1
1,2-Dichloroethane	ND		ug/kg	100	--	1
1,1,1-Trichloroethane	ND		ug/kg	52	--	1
Bromodichloromethane	ND		ug/kg	52	--	1
trans-1,3-Dichloropropene	ND		ug/kg	100	--	1
cis-1,3-Dichloropropene	ND		ug/kg	52	--	1
1,3-Dichloropropene, Total	ND		ug/kg	52	--	1
1,1-Dichloropropene	ND		ug/kg	52	--	1
Bromoform	ND		ug/kg	410	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	52	--	1
Benzene	ND		ug/kg	52	--	1
Toluene	ND		ug/kg	100	--	1
Ethylbenzene	ND		ug/kg	100	--	1
Chloromethane	ND		ug/kg	410	--	1
Bromomethane	ND		ug/kg	210	--	1
Vinyl chloride	ND		ug/kg	100	--	1
Chloroethane	ND		ug/kg	210	--	1
1,1-Dichloroethene	ND		ug/kg	100	--	1
trans-1,2-Dichloroethene	ND		ug/kg	150	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
Client ID: SB-2 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	130		ug/kg	52	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
Methyl tert butyl ether	ND		ug/kg	210	--	1
p/m-Xylene	ND		ug/kg	210	--	1
o-Xylene	ND		ug/kg	100	--	1
Xylenes, Total	ND		ug/kg	100	--	1
cis-1,2-Dichloroethene	130		ug/kg	100	--	1
1,2-Dichloroethene, Total	130		ug/kg	100	--	1
Dibromomethane	ND		ug/kg	210	--	1
1,2,3-Trichloropropane	ND		ug/kg	210	--	1
Styrene	ND		ug/kg	100	--	1
Dichlorodifluoromethane	ND		ug/kg	1000	--	1
Acetone	ND		ug/kg	1000	--	1
Carbon disulfide	ND		ug/kg	1000	--	1
Methyl ethyl ketone	ND		ug/kg	1000	--	1
Methyl isobutyl ketone	ND		ug/kg	1000	--	1
2-Hexanone	ND		ug/kg	1000	--	1
Bromochloromethane	ND		ug/kg	210	--	1
Tetrahydrofuran	ND		ug/kg	410	--	1
2,2-Dichloropropane	ND		ug/kg	210	--	1
1,2-Dibromoethane	ND		ug/kg	100	--	1
1,3-Dichloropropane	ND		ug/kg	210	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	52	--	1
Bromobenzene	ND		ug/kg	210	--	1
n-Butylbenzene	ND		ug/kg	100	--	1
sec-Butylbenzene	ND		ug/kg	100	--	1
tert-Butylbenzene	ND		ug/kg	210	--	1
o-Chlorotoluene	ND		ug/kg	210	--	1
p-Chlorotoluene	ND		ug/kg	210	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	310	--	1
Hexachlorobutadiene	ND		ug/kg	410	--	1
Isopropylbenzene	ND		ug/kg	100	--	1
p-Isopropyltoluene	ND		ug/kg	100	--	1
Naphthalene	ND		ug/kg	410	--	1
n-Propylbenzene	ND		ug/kg	100	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
Client ID: SB-2 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	210	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	210	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	210	--	1
Diethyl ether	ND		ug/kg	210	--	1
Diisopropyl Ether	ND		ug/kg	210	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	210	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	210	--	1
1,4-Dioxane	ND		ug/kg	200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	94		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
Client ID: D-07 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/14/19 16:39
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	--	1
1,1-Dichloroethane	ND		ug/kg	0.88	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.88	--	1
1,2-Dichloropropane	ND		ug/kg	0.88	--	1
Dibromochloromethane	ND		ug/kg	0.88	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	--	1
Tetrachloroethene	ND		ug/kg	0.44	--	1
Chlorobenzene	ND		ug/kg	0.44	--	1
Trichlorofluoromethane	ND		ug/kg	3.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.88	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	--	1
Bromodichloromethane	ND		ug/kg	0.44	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	--	1
1,1-Dichloropropene	ND		ug/kg	0.44	--	1
Bromoform	ND		ug/kg	3.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Benzene	ND		ug/kg	0.44	--	1
Toluene	ND		ug/kg	0.88	--	1
Ethylbenzene	ND		ug/kg	0.88	--	1
Chloromethane	ND		ug/kg	3.5	--	1
Bromomethane	ND		ug/kg	1.8	--	1
Vinyl chloride	ND		ug/kg	0.88	--	1
Chloroethane	ND		ug/kg	1.8	--	1
1,1-Dichloroethene	ND		ug/kg	0.88	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
 Client ID: D-07 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	--	1
Methyl tert butyl ether	ND		ug/kg	1.8	--	1
p/m-Xylene	ND		ug/kg	1.8	--	1
o-Xylene	ND		ug/kg	0.88	--	1
Xylenes, Total	ND		ug/kg	0.88	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	--	1
Dibromomethane	ND		ug/kg	1.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	--	1
Styrene	ND		ug/kg	0.88	--	1
Dichlorodifluoromethane	ND		ug/kg	8.8	--	1
Acetone	350	E	ug/kg	8.8	--	1
Carbon disulfide	ND		ug/kg	8.8	--	1
Methyl ethyl ketone	ND		ug/kg	8.8	--	1
Methyl isobutyl ketone	ND		ug/kg	8.8	--	1
2-Hexanone	ND		ug/kg	8.8	--	1
Bromochloromethane	ND		ug/kg	1.8	--	1
Tetrahydrofuran	ND		ug/kg	3.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.8	--	1
1,2-Dibromoethane	ND		ug/kg	0.88	--	1
1,3-Dichloropropane	ND		ug/kg	1.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Bromobenzene	ND		ug/kg	1.8	--	1
n-Butylbenzene	ND		ug/kg	0.88	--	1
sec-Butylbenzene	ND		ug/kg	0.88	--	1
tert-Butylbenzene	ND		ug/kg	1.8	--	1
o-Chlorotoluene	ND		ug/kg	1.8	--	1
p-Chlorotoluene	ND		ug/kg	1.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.5	--	1
Isopropylbenzene	ND		ug/kg	0.88	--	1
p-Isopropyltoluene	ND		ug/kg	0.88	--	1
Naphthalene	13		ug/kg	3.5	--	1
n-Propylbenzene	ND		ug/kg	0.88	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
Client ID: D-07 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	--	1
Diethyl ether	ND		ug/kg	1.8	--	1
Diisopropyl Ether	ND		ug/kg	1.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.8	--	1
1,4-Dioxane	ND		ug/kg	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
 Client ID: D-07 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 09:21
 Analyst: JC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	270	--	1
1,1-Dichloroethane	ND		ug/kg	54	--	1
Chloroform	ND		ug/kg	81	--	1
Carbon tetrachloride	ND		ug/kg	54	--	1
1,2-Dichloropropane	ND		ug/kg	54	--	1
Dibromochloromethane	ND		ug/kg	54	--	1
1,1,2-Trichloroethane	ND		ug/kg	54	--	1
Tetrachloroethene	ND		ug/kg	27	--	1
Chlorobenzene	ND		ug/kg	27	--	1
Trichlorofluoromethane	ND		ug/kg	220	--	1
1,2-Dichloroethane	ND		ug/kg	54	--	1
1,1,1-Trichloroethane	ND		ug/kg	27	--	1
Bromodichloromethane	ND		ug/kg	27	--	1
trans-1,3-Dichloropropene	ND		ug/kg	54	--	1
cis-1,3-Dichloropropene	ND		ug/kg	27	--	1
1,3-Dichloropropene, Total	ND		ug/kg	27	--	1
1,1-Dichloropropene	ND		ug/kg	27	--	1
Bromoform	ND		ug/kg	220	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	--	1
Benzene	ND		ug/kg	27	--	1
Toluene	ND		ug/kg	54	--	1
Ethylbenzene	ND		ug/kg	54	--	1
Chloromethane	ND		ug/kg	220	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	54	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	54	--	1
trans-1,2-Dichloroethene	ND		ug/kg	81	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-44
 Client ID: D-07 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	27	--	1
1,2-Dichlorobenzene	ND		ug/kg	110	--	1
1,3-Dichlorobenzene	ND		ug/kg	110	--	1
1,4-Dichlorobenzene	ND		ug/kg	110	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	ND		ug/kg	110	--	1
o-Xylene	ND		ug/kg	54	--	1
Xylenes, Total	ND		ug/kg	54	--	1
cis-1,2-Dichloroethene	ND		ug/kg	54	--	1
1,2-Dichloroethene, Total	ND		ug/kg	54	--	1
Dibromomethane	ND		ug/kg	110	--	1
1,2,3-Trichloropropane	ND		ug/kg	110	--	1
Styrene	ND		ug/kg	54	--	1
Dichlorodifluoromethane	ND		ug/kg	540	--	1
Acetone	ND		ug/kg	540	--	1
Carbon disulfide	ND		ug/kg	540	--	1
Methyl ethyl ketone	ND		ug/kg	540	--	1
Methyl isobutyl ketone	ND		ug/kg	540	--	1
2-Hexanone	ND		ug/kg	540	--	1
Bromochloromethane	ND		ug/kg	110	--	1
Tetrahydrofuran	ND		ug/kg	220	--	1
2,2-Dichloropropane	ND		ug/kg	110	--	1
1,2-Dibromoethane	ND		ug/kg	54	--	1
1,3-Dichloropropane	ND		ug/kg	110	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	--	1
Bromobenzene	ND		ug/kg	110	--	1
n-Butylbenzene	ND		ug/kg	54	--	1
sec-Butylbenzene	ND		ug/kg	54	--	1
tert-Butylbenzene	ND		ug/kg	110	--	1
o-Chlorotoluene	ND		ug/kg	110	--	1
p-Chlorotoluene	ND		ug/kg	110	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Isopropylbenzene	ND		ug/kg	54	--	1
p-Isopropyltoluene	ND		ug/kg	54	--	1
Naphthalene	4400		ug/kg	220	--	1
n-Propylbenzene	ND		ug/kg	54	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
Client ID: D-07 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	110	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	--	1
Diethyl ether	ND		ug/kg	110	--	1
Diisopropyl Ether	ND		ug/kg	110	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	110	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	110	--	1
1,4-Dioxane	ND		ug/kg	300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
Client ID: D-07 (7-9)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/14/19 17:03
Analyst: JC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.83	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.83	--	1
1,2-Dichloropropane	ND		ug/kg	0.83	--	1
Dibromochloromethane	ND		ug/kg	0.83	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.83	--	1
Tetrachloroethene	ND		ug/kg	0.42	--	1
Chlorobenzene	ND		ug/kg	0.42	--	1
Trichlorofluoromethane	ND		ug/kg	3.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.83	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	--	1
Bromodichloromethane	ND		ug/kg	0.42	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	--	1
1,1-Dichloropropene	ND		ug/kg	0.42	--	1
Bromoform	ND		ug/kg	3.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Benzene	ND		ug/kg	0.42	--	1
Toluene	ND		ug/kg	0.83	--	1
Ethylbenzene	ND		ug/kg	0.83	--	1
Chloromethane	ND		ug/kg	3.3	--	1
Bromomethane	ND		ug/kg	1.7	--	1
Vinyl chloride	ND		ug/kg	0.83	--	1
Chloroethane	ND		ug/kg	1.7	--	1
1,1-Dichloroethene	ND		ug/kg	0.83	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
Client ID: D-07 (7-9)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.7	--	1
p/m-Xylene	ND		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	0.83	--	1
Xylenes, Total	ND		ug/kg	0.83	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.83	--	1
Dibromomethane	ND		ug/kg	1.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	--	1
Styrene	ND		ug/kg	0.83	--	1
Dichlorodifluoromethane	ND		ug/kg	8.3	--	1
Acetone	49		ug/kg	8.3	--	1
Carbon disulfide	ND		ug/kg	8.3	--	1
Methyl ethyl ketone	ND		ug/kg	8.3	--	1
Methyl isobutyl ketone	ND		ug/kg	8.3	--	1
2-Hexanone	ND		ug/kg	8.3	--	1
Bromochloromethane	ND		ug/kg	1.7	--	1
Tetrahydrofuran	ND		ug/kg	3.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.7	--	1
1,2-Dibromoethane	ND		ug/kg	0.83	--	1
1,3-Dichloropropane	ND		ug/kg	1.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Bromobenzene	ND		ug/kg	1.7	--	1
n-Butylbenzene	ND		ug/kg	0.83	--	1
sec-Butylbenzene	ND		ug/kg	0.83	--	1
tert-Butylbenzene	ND		ug/kg	1.7	--	1
o-Chlorotoluene	ND		ug/kg	1.7	--	1
p-Chlorotoluene	ND		ug/kg	1.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	--	1
Hexachlorobutadiene	ND		ug/kg	3.3	--	1
Isopropylbenzene	ND		ug/kg	0.83	--	1
p-Isopropyltoluene	ND		ug/kg	0.83	--	1
Naphthalene	ND		ug/kg	3.3	--	1
n-Propylbenzene	ND		ug/kg	0.83	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
Client ID: D-07 (7-9)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	--	1
Diethyl ether	ND		ug/kg	1.7	--	1
Diisopropyl Ether	ND		ug/kg	1.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.7	--	1
1,4-Dioxane	ND		ug/kg	1.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
 Client ID: SB-DUP-5
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 19:44
 Analyst: NLK
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	240	--	1
1,1-Dichloroethane	ND		ug/kg	49	--	1
Chloroform	ND		ug/kg	73	--	1
Carbon tetrachloride	ND		ug/kg	49	--	1
1,2-Dichloropropane	ND		ug/kg	49	--	1
Dibromochloromethane	ND		ug/kg	49	--	1
1,1,2-Trichloroethane	ND		ug/kg	49	--	1
Tetrachloroethene	ND		ug/kg	24	--	1
Chlorobenzene	ND		ug/kg	24	--	1
Trichlorofluoromethane	ND		ug/kg	200	--	1
1,2-Dichloroethane	ND		ug/kg	49	--	1
1,1,1-Trichloroethane	ND		ug/kg	24	--	1
Bromodichloromethane	ND		ug/kg	24	--	1
trans-1,3-Dichloropropene	ND		ug/kg	49	--	1
cis-1,3-Dichloropropene	ND		ug/kg	24	--	1
1,3-Dichloropropene, Total	ND		ug/kg	24	--	1
1,1-Dichloropropene	ND		ug/kg	24	--	1
Bromoform	ND		ug/kg	200	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	24	--	1
Benzene	ND		ug/kg	24	--	1
Toluene	ND		ug/kg	49	--	1
Ethylbenzene	ND		ug/kg	49	--	1
Chloromethane	ND		ug/kg	200	--	1
Bromomethane	ND		ug/kg	98	--	1
Vinyl chloride	ND		ug/kg	49	--	1
Chloroethane	ND		ug/kg	98	--	1
1,1-Dichloroethene	ND		ug/kg	49	--	1
trans-1,2-Dichloroethene	ND		ug/kg	73	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
Client ID: SB-DUP-5
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	24	--	1
1,2-Dichlorobenzene	ND		ug/kg	98	--	1
1,3-Dichlorobenzene	ND		ug/kg	98	--	1
1,4-Dichlorobenzene	ND		ug/kg	98	--	1
Methyl tert butyl ether	ND		ug/kg	98	--	1
p/m-Xylene	ND		ug/kg	98	--	1
o-Xylene	ND		ug/kg	49	--	1
Xylenes, Total	ND		ug/kg	49	--	1
cis-1,2-Dichloroethene	ND		ug/kg	49	--	1
1,2-Dichloroethene, Total	ND		ug/kg	49	--	1
Dibromomethane	ND		ug/kg	98	--	1
1,2,3-Trichloropropane	ND		ug/kg	98	--	1
Styrene	ND		ug/kg	49	--	1
Dichlorodifluoromethane	ND		ug/kg	490	--	1
Acetone	ND		ug/kg	490	--	1
Carbon disulfide	ND		ug/kg	490	--	1
Methyl ethyl ketone	ND		ug/kg	490	--	1
Methyl isobutyl ketone	ND		ug/kg	490	--	1
2-Hexanone	ND		ug/kg	490	--	1
Bromochloromethane	ND		ug/kg	98	--	1
Tetrahydrofuran	ND		ug/kg	200	--	1
2,2-Dichloropropane	ND		ug/kg	98	--	1
1,2-Dibromoethane	ND		ug/kg	49	--	1
1,3-Dichloropropane	ND		ug/kg	98	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	24	--	1
Bromobenzene	ND		ug/kg	98	--	1
n-Butylbenzene	ND		ug/kg	49	--	1
sec-Butylbenzene	ND		ug/kg	49	--	1
tert-Butylbenzene	ND		ug/kg	98	--	1
o-Chlorotoluene	ND		ug/kg	98	--	1
p-Chlorotoluene	ND		ug/kg	98	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Isopropylbenzene	ND		ug/kg	49	--	1
p-Isopropyltoluene	ND		ug/kg	49	--	1
Naphthalene	2500		ug/kg	200	--	1
n-Propylbenzene	ND		ug/kg	49	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
Client ID: SB-DUP-5
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	98	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	98	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	98	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	98	--	1
Diethyl ether	ND		ug/kg	98	--	1
Diisopropyl Ether	ND		ug/kg	98	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	98	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	98	--	1
1,4-Dioxane	ND		ug/kg	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55
 Client ID: E-06 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 21:45
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.95	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.95	--	1
1,2-Dichloropropane	ND		ug/kg	0.95	--	1
Dibromochloromethane	ND		ug/kg	0.95	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	--	1
Tetrachloroethene	1.9		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.95	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.95	--	1
Ethylbenzene	ND		ug/kg	0.95	--	1
Chloromethane	ND		ug/kg	3.8	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.95	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.95	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55
Client ID: E-06 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.8		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.95	--	1
Xylenes, Total	ND		ug/kg	0.95	--	1
cis-1,2-Dichloroethene	1.2		ug/kg	0.95	--	1
1,2-Dichloroethene, Total	1.2		ug/kg	0.95	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.95	--	1
Dichlorodifluoromethane	ND		ug/kg	9.5	--	1
Acetone	270		ug/kg	9.5	--	1
Carbon disulfide	ND		ug/kg	9.5	--	1
Methyl ethyl ketone	ND		ug/kg	9.5	--	1
Methyl isobutyl ketone	ND		ug/kg	9.5	--	1
2-Hexanone	ND		ug/kg	9.5	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.95	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.95	--	1
sec-Butylbenzene	ND		ug/kg	0.95	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.95	--	1
p-Isopropyltoluene	ND		ug/kg	0.95	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.95	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55
Client ID: E-06 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
Client ID: E-06 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/15/19 22:09
Analyst: NLK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.97	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.97	--	1
1,2-Dichloropropane	ND		ug/kg	0.97	--	1
Dibromochloromethane	ND		ug/kg	0.97	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	--	1
Tetrachloroethene	ND		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.97	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.97	--	1
Ethylbenzene	ND		ug/kg	0.97	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.97	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.97	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56

Date Collected: 09/04/19 13:35

Client ID: E-06 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.97	--	1
Xylenes, Total	ND		ug/kg	0.97	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.97	--	1
Dichlorodifluoromethane	ND		ug/kg	9.7	--	1
Acetone	250		ug/kg	9.7	--	1
Carbon disulfide	ND		ug/kg	9.7	--	1
Methyl ethyl ketone	ND		ug/kg	9.7	--	1
Methyl isobutyl ketone	ND		ug/kg	9.7	--	1
2-Hexanone	ND		ug/kg	9.7	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.97	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.97	--	1
sec-Butylbenzene	ND		ug/kg	0.97	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1
Isopropylbenzene	ND		ug/kg	0.97	--	1
p-Isopropyltoluene	ND		ug/kg	0.97	--	1
Naphthalene	13		ug/kg	3.9	--	1
n-Propylbenzene	ND		ug/kg	0.97	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
Client ID: E-06 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
Client ID: B-09 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:54
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/16/19 01:46
Analyst: NLK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.73	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.73	--	1
1,2-Dichloropropane	ND		ug/kg	0.73	--	1
Dibromochloromethane	ND		ug/kg	0.73	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.73	--	1
Tetrachloroethene	ND		ug/kg	0.36	--	1
Chlorobenzene	ND		ug/kg	0.36	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.73	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	--	1
Bromodichloromethane	ND		ug/kg	0.36	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.73	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	--	1
1,1-Dichloropropene	ND		ug/kg	0.36	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Benzene	ND		ug/kg	0.36	--	1
Toluene	ND		ug/kg	0.73	--	1
Ethylbenzene	ND		ug/kg	0.73	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	0.73	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.73	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-101

Date Collected: 09/05/19 09:54

Client ID: B-09 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.36	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	0.73	--	1
Xylenes, Total	ND		ug/kg	0.73	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.73	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.73	--	1
Dibromomethane	ND		ug/kg	1.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	--	1
Styrene	ND		ug/kg	0.73	--	1
Dichlorodifluoromethane	ND		ug/kg	7.3	--	1
Acetone	18		ug/kg	7.3	--	1
Carbon disulfide	ND		ug/kg	7.3	--	1
Methyl ethyl ketone	ND		ug/kg	7.3	--	1
Methyl isobutyl ketone	ND		ug/kg	7.3	--	1
2-Hexanone	ND		ug/kg	7.3	--	1
Bromochloromethane	ND		ug/kg	1.4	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.4	--	1
1,2-Dibromoethane	ND		ug/kg	0.73	--	1
1,3-Dichloropropane	ND		ug/kg	1.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Bromobenzene	ND		ug/kg	1.4	--	1
n-Butylbenzene	ND		ug/kg	0.73	--	1
sec-Butylbenzene	ND		ug/kg	0.73	--	1
tert-Butylbenzene	ND		ug/kg	1.4	--	1
o-Chlorotoluene	ND		ug/kg	1.4	--	1
p-Chlorotoluene	ND		ug/kg	1.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.73	--	1
p-Isopropyltoluene	ND		ug/kg	0.73	--	1
Naphthalene	6.1		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.73	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
Client ID: B-09 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:54
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	--	1
Diethyl ether	ND		ug/kg	1.4	--	1
Diisopropyl Ether	ND		ug/kg	1.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	--	1
1,4-Dioxane	ND		ug/kg	1.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-105
 Client ID: B-09 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:02
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 10:09
 Analyst: JC
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	1.1	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.53	--	1
Chlorobenzene	ND		ug/kg	0.53	--	1
Trichlorofluoromethane	ND		ug/kg	4.3	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	--	1
Bromodichloromethane	ND		ug/kg	0.53	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	--	1
1,1-Dichloropropene	ND		ug/kg	0.53	--	1
Bromoform	ND		ug/kg	4.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	--	1
Benzene	ND		ug/kg	0.53	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	4.3	--	1
Bromomethane	ND		ug/kg	2.1	--	1
Vinyl chloride	ND		ug/kg	1.1	--	1
Chloroethane	ND		ug/kg	2.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-105

Date Collected: 09/05/19 10:02

Client ID: B-09 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.53	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	--	1
Methyl tert butyl ether	ND		ug/kg	2.1	--	1
p/m-Xylene	ND		ug/kg	2.1	--	1
o-Xylene	ND		ug/kg	1.1	--	1
Xylenes, Total	ND		ug/kg	1.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	--	1
Dibromomethane	ND		ug/kg	2.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	--	1
Styrene	ND		ug/kg	1.1	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	210		ug/kg	11	--	1
Carbon disulfide	ND		ug/kg	11	--	1
Methyl ethyl ketone	ND		ug/kg	11	--	1
Methyl isobutyl ketone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Bromochloromethane	ND		ug/kg	2.1	--	1
Tetrahydrofuran	ND		ug/kg	4.3	--	1
2,2-Dichloropropane	ND		ug/kg	2.1	--	1
1,2-Dibromoethane	ND		ug/kg	1.1	--	1
1,3-Dichloropropane	ND		ug/kg	2.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	--	1
Bromobenzene	ND		ug/kg	2.1	--	1
n-Butylbenzene	ND		ug/kg	1.1	--	1
sec-Butylbenzene	ND		ug/kg	1.1	--	1
tert-Butylbenzene	ND		ug/kg	2.1	--	1
o-Chlorotoluene	ND		ug/kg	2.1	--	1
p-Chlorotoluene	ND		ug/kg	2.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	--	1
Hexachlorobutadiene	ND		ug/kg	4.3	--	1
Isopropylbenzene	ND		ug/kg	1.1	--	1
p-Isopropyltoluene	ND		ug/kg	1.1	--	1
Naphthalene	ND		ug/kg	4.3	--	1
n-Propylbenzene	ND		ug/kg	1.1	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-105
Client ID: B-09 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:02
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	--	1
Diethyl ether	ND		ug/kg	2.1	--	1
Diisopropyl Ether	ND		ug/kg	2.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.1	--	1
1,4-Dioxane	ND		ug/kg	2.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	100		70-130

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113
Client ID: B-05 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:54
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/15/19 18:32
Analyst: NLK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	--	1
1,1-Dichloroethane	ND		ug/kg	68	--	1
Chloroform	ND		ug/kg	100	--	1
Carbon tetrachloride	ND		ug/kg	68	--	1
1,2-Dichloropropane	ND		ug/kg	68	--	1
Dibromochloromethane	ND		ug/kg	68	--	1
1,1,2-Trichloroethane	ND		ug/kg	68	--	1
Tetrachloroethene	ND		ug/kg	34	--	1
Chlorobenzene	ND		ug/kg	34	--	1
Trichlorofluoromethane	ND		ug/kg	270	--	1
1,2-Dichloroethane	ND		ug/kg	68	--	1
1,1,1-Trichloroethane	ND		ug/kg	34	--	1
Bromodichloromethane	ND		ug/kg	34	--	1
trans-1,3-Dichloropropene	ND		ug/kg	68	--	1
cis-1,3-Dichloropropene	ND		ug/kg	34	--	1
1,3-Dichloropropene, Total	ND		ug/kg	34	--	1
1,1-Dichloropropene	ND		ug/kg	34	--	1
Bromoform	ND		ug/kg	270	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	--	1
Benzene	ND		ug/kg	34	--	1
Toluene	ND		ug/kg	68	--	1
Ethylbenzene	ND		ug/kg	68	--	1
Chloromethane	ND		ug/kg	270	--	1
Bromomethane	ND		ug/kg	140	--	1
Vinyl chloride	ND		ug/kg	68	--	1
Chloroethane	ND		ug/kg	140	--	1
1,1-Dichloroethene	ND		ug/kg	68	--	1
trans-1,2-Dichloroethene	ND		ug/kg	100	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113
Client ID: B-05 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:54
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	490		ug/kg	34	--	1
1,2-Dichlorobenzene	ND		ug/kg	140	--	1
1,3-Dichlorobenzene	ND		ug/kg	140	--	1
1,4-Dichlorobenzene	ND		ug/kg	140	--	1
Methyl tert butyl ether	ND		ug/kg	140	--	1
p/m-Xylene	ND		ug/kg	140	--	1
o-Xylene	ND		ug/kg	68	--	1
Xylenes, Total	ND		ug/kg	68	--	1
cis-1,2-Dichloroethene	ND		ug/kg	68	--	1
1,2-Dichloroethene, Total	ND		ug/kg	68	--	1
Dibromomethane	ND		ug/kg	140	--	1
1,2,3-Trichloropropane	ND		ug/kg	140	--	1
Styrene	ND		ug/kg	68	--	1
Dichlorodifluoromethane	ND		ug/kg	680	--	1
Acetone	ND		ug/kg	680	--	1
Carbon disulfide	ND		ug/kg	680	--	1
Methyl ethyl ketone	ND		ug/kg	680	--	1
Methyl isobutyl ketone	ND		ug/kg	680	--	1
2-Hexanone	ND		ug/kg	680	--	1
Bromochloromethane	ND		ug/kg	140	--	1
Tetrahydrofuran	ND		ug/kg	270	--	1
2,2-Dichloropropane	ND		ug/kg	140	--	1
1,2-Dibromoethane	ND		ug/kg	68	--	1
1,3-Dichloropropane	ND		ug/kg	140	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	--	1
Bromobenzene	ND		ug/kg	140	--	1
n-Butylbenzene	ND		ug/kg	68	--	1
sec-Butylbenzene	ND		ug/kg	68	--	1
tert-Butylbenzene	ND		ug/kg	140	--	1
o-Chlorotoluene	ND		ug/kg	140	--	1
p-Chlorotoluene	ND		ug/kg	140	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--	1
Hexachlorobutadiene	ND		ug/kg	270	--	1
Isopropylbenzene	ND		ug/kg	68	--	1
p-Isopropyltoluene	ND		ug/kg	68	--	1
Naphthalene	1000		ug/kg	270	--	1
n-Propylbenzene	ND		ug/kg	68	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113
Client ID: B-05 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:54
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	140	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	--	1
Diethyl ether	ND		ug/kg	140	--	1
Diisopropyl Ether	ND		ug/kg	140	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	140	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	140	--	1
1,4-Dioxane	ND		ug/kg	140	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	91		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
Client ID: B-05 (3-5)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/15/19 22:57
Analyst: NLK
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	1.0	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	0.2		ug/kg	0.51	--	1
Chlorobenzene	ND		ug/kg	0.51	--	1
Trichlorofluoromethane	ND		ug/kg	4.1	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	--	1
Bromodichloromethane	ND		ug/kg	0.51	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	--	1
1,1-Dichloropropene	ND		ug/kg	0.51	--	1
Bromoform	ND		ug/kg	4.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	--	1
Benzene	ND		ug/kg	0.51	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.1	--	1
Bromomethane	ND		ug/kg	2.0	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	2.0	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115

Date Collected: 09/05/19 10:57

Client ID: B-05 (3-5)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	--	1
Methyl tert butyl ether	ND		ug/kg	2.0	--	1
p/m-Xylene	ND		ug/kg	2.0	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	2.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	120		ug/kg	10	--	1
Carbon disulfide	ND		ug/kg	10	--	1
Methyl ethyl ketone	ND		ug/kg	10	--	1
Methyl isobutyl ketone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	4.1	--	1
2,2-Dichloropropane	ND		ug/kg	2.0	--	1
1,2-Dibromoethane	ND		ug/kg	1.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	--	1
Bromobenzene	ND		ug/kg	2.0	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	2.0	--	1
o-Chlorotoluene	ND		ug/kg	2.0	--	1
p-Chlorotoluene	ND		ug/kg	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	4.1	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.1	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
Client ID: B-05 (3-5)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--	1
Diethyl ether	ND		ug/kg	2.0	--	1
Diisopropyl Ether	ND		ug/kg	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--	1
1,4-Dioxane	ND		ug/kg	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/15/19 20:57
Analyst: NLK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.93	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.93	--	1
1,2-Dichloropropane	ND		ug/kg	0.93	--	1
Dibromochloromethane	ND		ug/kg	0.93	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	--	1
Tetrachloroethene	0.91		ug/kg	0.46	--	1
Chlorobenzene	ND		ug/kg	0.46	--	1
Trichlorofluoromethane	ND		ug/kg	3.7	--	1
1,2-Dichloroethane	ND		ug/kg	0.93	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	--	1
Bromodichloromethane	ND		ug/kg	0.46	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	--	1
1,1-Dichloropropene	ND		ug/kg	0.46	--	1
Bromoform	ND		ug/kg	3.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	--	1
Benzene	ND		ug/kg	0.46	--	1
Toluene	ND		ug/kg	0.93	--	1
Ethylbenzene	ND		ug/kg	0.93	--	1
Chloromethane	ND		ug/kg	3.7	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.93	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.93	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

NOT APPLICABLE

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138

Date Collected: 09/05/19 13:36

Client ID: SB-1 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.93	--	1
Xylenes, Total	ND		ug/kg	0.93	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.93	--	1
Dichlorodifluoromethane	ND		ug/kg	9.3	--	1
Acetone	280	E	ug/kg	9.3	--	1
Carbon disulfide	ND		ug/kg	9.3	--	1
Methyl ethyl ketone	ND		ug/kg	9.3	--	1
Methyl isobutyl ketone	ND		ug/kg	9.3	--	1
2-Hexanone	ND		ug/kg	9.3	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.7	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.93	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.93	--	1
sec-Butylbenzene	ND		ug/kg	0.93	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.7	--	1
Isopropylbenzene	ND		ug/kg	0.93	--	1
p-Isopropyltoluene	ND		ug/kg	0.93	--	1
Naphthalene	ND		ug/kg	3.7	--	1
n-Propylbenzene	ND		ug/kg	0.93	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	100		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/16/19 20:46
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	270	--	1
1,1-Dichloroethane	ND		ug/kg	54	--	1
Chloroform	ND		ug/kg	81	--	1
Carbon tetrachloride	ND		ug/kg	54	--	1
1,2-Dichloropropane	ND		ug/kg	54	--	1
Dibromochloromethane	ND		ug/kg	54	--	1
1,1,2-Trichloroethane	ND		ug/kg	54	--	1
Tetrachloroethene	ND		ug/kg	27	--	1
Chlorobenzene	ND		ug/kg	27	--	1
Trichlorofluoromethane	ND		ug/kg	220	--	1
1,2-Dichloroethane	ND		ug/kg	54	--	1
1,1,1-Trichloroethane	ND		ug/kg	27	--	1
Bromodichloromethane	ND		ug/kg	27	--	1
trans-1,3-Dichloropropene	ND		ug/kg	54	--	1
cis-1,3-Dichloropropene	ND		ug/kg	27	--	1
1,3-Dichloropropene, Total	ND		ug/kg	27	--	1
1,1-Dichloropropene	ND		ug/kg	27	--	1
Bromoform	ND		ug/kg	220	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	--	1
Benzene	ND		ug/kg	27	--	1
Toluene	ND		ug/kg	54	--	1
Ethylbenzene	ND		ug/kg	54	--	1
Chloromethane	ND		ug/kg	220	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	54	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	54	--	1
trans-1,2-Dichloroethene	ND		ug/kg	81	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	27	--	1
1,2-Dichlorobenzene	ND		ug/kg	110	--	1
1,3-Dichlorobenzene	ND		ug/kg	110	--	1
1,4-Dichlorobenzene	ND		ug/kg	110	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	ND		ug/kg	110	--	1
o-Xylene	ND		ug/kg	54	--	1
Xylenes, Total	ND		ug/kg	54	--	1
cis-1,2-Dichloroethene	ND		ug/kg	54	--	1
1,2-Dichloroethene, Total	ND		ug/kg	54	--	1
Dibromomethane	ND		ug/kg	110	--	1
1,2,3-Trichloropropane	ND		ug/kg	110	--	1
Styrene	ND		ug/kg	54	--	1
Dichlorodifluoromethane	ND		ug/kg	540	--	1
Acetone	ND		ug/kg	540	--	1
Carbon disulfide	ND		ug/kg	540	--	1
Methyl ethyl ketone	ND		ug/kg	540	--	1
Methyl isobutyl ketone	ND		ug/kg	540	--	1
2-Hexanone	ND		ug/kg	540	--	1
Bromochloromethane	ND		ug/kg	110	--	1
Tetrahydrofuran	ND		ug/kg	220	--	1
2,2-Dichloropropane	ND		ug/kg	110	--	1
1,2-Dibromoethane	ND		ug/kg	54	--	1
1,3-Dichloropropane	ND		ug/kg	110	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	--	1
Bromobenzene	ND		ug/kg	110	--	1
n-Butylbenzene	ND		ug/kg	54	--	1
sec-Butylbenzene	ND		ug/kg	54	--	1
tert-Butylbenzene	ND		ug/kg	110	--	1
o-Chlorotoluene	ND		ug/kg	110	--	1
p-Chlorotoluene	ND		ug/kg	110	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Isopropylbenzene	ND		ug/kg	54	--	1
p-Isopropyltoluene	ND		ug/kg	54	--	1
Naphthalene	ND		ug/kg	220	--	1
n-Propylbenzene	ND		ug/kg	54	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	110	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	--	1
Diethyl ether	ND		ug/kg	110	--	1
Diisopropyl Ether	ND		ug/kg	110	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	110	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	110	--	1
1,4-Dioxane	ND		ug/kg	300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
Client ID: SB-1 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/15/19 21:21
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.0	--	1
1,1-Dichloroethane	ND		ug/kg	0.79	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.79	--	1
1,2-Dichloropropane	ND		ug/kg	0.79	--	1
Dibromochloromethane	ND		ug/kg	0.79	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.79	--	1
Tetrachloroethene	0.61		ug/kg	0.40	--	1
Chlorobenzene	ND		ug/kg	0.40	--	1
Trichlorofluoromethane	ND		ug/kg	3.2	--	1
1,2-Dichloroethane	ND		ug/kg	0.79	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.40	--	1
Bromodichloromethane	ND		ug/kg	0.40	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.79	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.40	--	1
1,1-Dichloropropene	ND		ug/kg	0.40	--	1
Bromoform	ND		ug/kg	3.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.40	--	1
Benzene	ND		ug/kg	0.40	--	1
Toluene	ND		ug/kg	0.79	--	1
Ethylbenzene	ND		ug/kg	0.79	--	1
Chloromethane	ND		ug/kg	3.2	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	0.79	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.79	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
Client ID: SB-1 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.40	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	0.79	--	1
Xylenes, Total	ND		ug/kg	0.79	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.79	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.79	--	1
Dibromomethane	ND		ug/kg	1.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	--	1
Styrene	ND		ug/kg	0.79	--	1
Dichlorodifluoromethane	ND		ug/kg	7.9	--	1
Acetone	130		ug/kg	7.9	--	1
Carbon disulfide	ND		ug/kg	7.9	--	1
Methyl ethyl ketone	ND		ug/kg	7.9	--	1
Methyl isobutyl ketone	ND		ug/kg	7.9	--	1
2-Hexanone	ND		ug/kg	7.9	--	1
Bromochloromethane	ND		ug/kg	1.6	--	1
Tetrahydrofuran	ND		ug/kg	3.2	--	1
2,2-Dichloropropane	ND		ug/kg	1.6	--	1
1,2-Dibromoethane	ND		ug/kg	0.79	--	1
1,3-Dichloropropane	ND		ug/kg	1.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.40	--	1
Bromobenzene	ND		ug/kg	1.6	--	1
n-Butylbenzene	ND		ug/kg	0.79	--	1
sec-Butylbenzene	ND		ug/kg	0.79	--	1
tert-Butylbenzene	ND		ug/kg	1.6	--	1
o-Chlorotoluene	ND		ug/kg	1.6	--	1
p-Chlorotoluene	ND		ug/kg	1.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	--	1
Hexachlorobutadiene	ND		ug/kg	3.2	--	1
Isopropylbenzene	ND		ug/kg	0.79	--	1
p-Isopropyltoluene	ND		ug/kg	0.79	--	1
Naphthalene	ND		ug/kg	3.2	--	1
n-Propylbenzene	ND		ug/kg	0.79	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
Client ID: SB-1 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	--	1
Diethyl ether	ND		ug/kg	1.6	--	1
Diisopropyl Ether	ND		ug/kg	1.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.6	--	1
1,4-Dioxane	ND		ug/kg	1.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
 Client ID: SB-DUP-1
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 10:33
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.72	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	0.72	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.72	--	1
Tetrachloroethene	0.66		ug/kg	0.36	--	1
Chlorobenzene	ND		ug/kg	0.36	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	--	1
Bromodichloromethane	ND		ug/kg	0.36	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	--	1
1,1-Dichloropropene	ND		ug/kg	0.36	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Benzene	ND		ug/kg	0.36	--	1
Toluene	ND		ug/kg	0.72	--	1
Ethylbenzene	ND		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	0.72	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
Client ID: SB-DUP-1
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.36	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	0.72	--	1
Xylenes, Total	ND		ug/kg	0.72	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	1.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	--	1
Styrene	ND		ug/kg	0.72	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	ND		ug/kg	7.2	--	1
Carbon disulfide	ND		ug/kg	7.2	--	1
Methyl ethyl ketone	ND		ug/kg	7.2	--	1
Methyl isobutyl ketone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	1.4	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.4	--	1
1,2-Dibromoethane	ND		ug/kg	0.72	--	1
1,3-Dichloropropane	ND		ug/kg	1.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Bromobenzene	ND		ug/kg	1.4	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	1.4	--	1
o-Chlorotoluene	ND		ug/kg	1.4	--	1
p-Chlorotoluene	ND		ug/kg	1.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
Client ID: SB-DUP-1
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	--	1
Diethyl ether	ND		ug/kg	1.4	--	1
Diisopropyl Ether	ND		ug/kg	1.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	--	1
1,4-Dioxane	ND		ug/kg	1.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
 Client ID: SB-1 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 22:33
 Analyst: NLK
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.6	--	1
Chloroform	ND		ug/kg	2.4	--	1
Carbon tetrachloride	ND		ug/kg	1.6	--	1
1,2-Dichloropropane	ND		ug/kg	1.6	--	1
Dibromochloromethane	ND		ug/kg	1.6	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	--	1
Tetrachloroethene	ND		ug/kg	0.81	--	1
Chlorobenzene	ND		ug/kg	0.81	--	1
Trichlorofluoromethane	ND		ug/kg	6.5	--	1
1,2-Dichloroethane	ND		ug/kg	1.6	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.81	--	1
Bromodichloromethane	ND		ug/kg	0.81	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.81	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.81	--	1
1,1-Dichloropropene	ND		ug/kg	0.81	--	1
Bromoform	ND		ug/kg	6.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.81	--	1
Benzene	ND		ug/kg	0.81	--	1
Toluene	ND		ug/kg	1.6	--	1
Ethylbenzene	ND		ug/kg	1.6	--	1
Chloromethane	ND		ug/kg	6.5	--	1
Bromomethane	ND		ug/kg	3.2	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	3.2	--	1
1,1-Dichloroethene	ND		ug/kg	1.6	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.81	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.2	--	1
Methyl tert butyl ether	ND		ug/kg	3.2	--	1
p/m-Xylene	ND		ug/kg	3.2	--	1
o-Xylene	ND		ug/kg	1.6	--	1
Xylenes, Total	ND		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	--	1
Dibromomethane	ND		ug/kg	3.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.2	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	16	--	1
Acetone	560	E	ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	16	--	1
Methyl ethyl ketone	ND		ug/kg	16	--	1
Methyl isobutyl ketone	ND		ug/kg	16	--	1
2-Hexanone	ND		ug/kg	16	--	1
Bromochloromethane	ND		ug/kg	3.2	--	1
Tetrahydrofuran	ND		ug/kg	6.5	--	1
2,2-Dichloropropane	ND		ug/kg	3.2	--	1
1,2-Dibromoethane	ND		ug/kg	1.6	--	1
1,3-Dichloropropane	ND		ug/kg	3.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.81	--	1
Bromobenzene	ND		ug/kg	3.2	--	1
n-Butylbenzene	ND		ug/kg	1.6	--	1
sec-Butylbenzene	ND		ug/kg	1.6	--	1
tert-Butylbenzene	ND		ug/kg	3.2	--	1
o-Chlorotoluene	ND		ug/kg	3.2	--	1
p-Chlorotoluene	ND		ug/kg	3.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	--	1
Hexachlorobutadiene	ND		ug/kg	6.5	--	1
Isopropylbenzene	ND		ug/kg	1.6	--	1
p-Isopropyltoluene	ND		ug/kg	1.6	--	1
Naphthalene	ND		ug/kg	6.5	--	1
n-Propylbenzene	ND		ug/kg	1.6	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	3.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.2	--	1
Diethyl ether	ND		ug/kg	3.2	--	1
Diisopropyl Ether	ND		ug/kg	3.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.2	--	1
1,4-Dioxane	ND		ug/kg	3.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/16/19 21:10
Analyst: MV
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	590	--	1
1,1-Dichloroethane	ND		ug/kg	120	--	1
Chloroform	ND		ug/kg	180	--	1
Carbon tetrachloride	ND		ug/kg	120	--	1
1,2-Dichloropropane	ND		ug/kg	120	--	1
Dibromochloromethane	ND		ug/kg	120	--	1
1,1,2-Trichloroethane	ND		ug/kg	120	--	1
Tetrachloroethene	ND		ug/kg	59	--	1
Chlorobenzene	ND		ug/kg	59	--	1
Trichlorofluoromethane	ND		ug/kg	470	--	1
1,2-Dichloroethane	ND		ug/kg	120	--	1
1,1,1-Trichloroethane	ND		ug/kg	59	--	1
Bromodichloromethane	ND		ug/kg	59	--	1
trans-1,3-Dichloropropene	ND		ug/kg	120	--	1
cis-1,3-Dichloropropene	ND		ug/kg	59	--	1
1,3-Dichloropropene, Total	ND		ug/kg	59	--	1
1,1-Dichloropropene	ND		ug/kg	59	--	1
Bromoform	ND		ug/kg	470	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	59	--	1
Benzene	ND		ug/kg	59	--	1
Toluene	ND		ug/kg	120	--	1
Ethylbenzene	ND		ug/kg	120	--	1
Chloromethane	ND		ug/kg	470	--	1
Bromomethane	ND		ug/kg	240	--	1
Vinyl chloride	ND		ug/kg	120	--	1
Chloroethane	ND		ug/kg	240	--	1
1,1-Dichloroethene	ND		ug/kg	120	--	1
trans-1,2-Dichloroethene	ND		ug/kg	180	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
 Client ID: SB-1 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	59	--	1
1,2-Dichlorobenzene	ND		ug/kg	240	--	1
1,3-Dichlorobenzene	ND		ug/kg	240	--	1
1,4-Dichlorobenzene	ND		ug/kg	240	--	1
Methyl tert butyl ether	ND		ug/kg	240	--	1
p/m-Xylene	ND		ug/kg	240	--	1
o-Xylene	ND		ug/kg	120	--	1
Xylenes, Total	ND		ug/kg	120	--	1
cis-1,2-Dichloroethene	ND		ug/kg	120	--	1
1,2-Dichloroethene, Total	ND		ug/kg	120	--	1
Dibromomethane	ND		ug/kg	240	--	1
1,2,3-Trichloropropane	ND		ug/kg	240	--	1
Styrene	ND		ug/kg	120	--	1
Dichlorodifluoromethane	ND		ug/kg	1200	--	1
Acetone	ND		ug/kg	1200	--	1
Carbon disulfide	ND		ug/kg	1200	--	1
Methyl ethyl ketone	ND		ug/kg	1200	--	1
Methyl isobutyl ketone	ND		ug/kg	1200	--	1
2-Hexanone	ND		ug/kg	1200	--	1
Bromochloromethane	ND		ug/kg	240	--	1
Tetrahydrofuran	ND		ug/kg	470	--	1
2,2-Dichloropropane	ND		ug/kg	240	--	1
1,2-Dibromoethane	ND		ug/kg	120	--	1
1,3-Dichloropropane	ND		ug/kg	240	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	59	--	1
Bromobenzene	ND		ug/kg	240	--	1
n-Butylbenzene	ND		ug/kg	120	--	1
sec-Butylbenzene	ND		ug/kg	120	--	1
tert-Butylbenzene	ND		ug/kg	240	--	1
o-Chlorotoluene	ND		ug/kg	240	--	1
p-Chlorotoluene	ND		ug/kg	240	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	--	1
Hexachlorobutadiene	ND		ug/kg	470	--	1
Isopropylbenzene	ND		ug/kg	120	--	1
p-Isopropyltoluene	ND		ug/kg	120	--	1
Naphthalene	ND		ug/kg	470	--	1
n-Propylbenzene	ND		ug/kg	120	--	1

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	240	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	240	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	240	--	1
Diethyl ether	ND		ug/kg	240	--	1
Diisopropyl Ether	ND		ug/kg	240	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	240	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	240	--	1
1,4-Dioxane	ND		ug/kg	240	--	1

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

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/14/19 09:06
 Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,17,23 Batch: WG1284397-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/14/19 09:06
 Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,17,23 Batch: WG1284397-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Bromodichloromethane	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/14/19 09:06
 Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,17,23 Batch: WG1284397-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	104		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 14:14
 Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,22,24 Batch: WG1284519-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 14:14
 Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,22,24 Batch: WG1284519-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Bromodichloromethane	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 14:14
 Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,22,24 Batch: WG1284519-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	100		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 14:14
 Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1284521-5					
Methylene chloride	ND		ug/kg	50	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoforn	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/15/19 14:14
Analyst: KJD

Parameter	Result	Qualifier	Units	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1284521-5				
1,2-Dichlorobenzene	ND		ug/kg	50
1,3-Dichlorobenzene	ND		ug/kg	100
1,4-Dichlorobenzene	ND		ug/kg	100
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	50
Xylenes, Total	ND		ug/kg	50
cis-1,2-Dichloroethene	ND		ug/kg	50
1,2-Dichloroethene, Total	ND		ug/kg	50
Dibromomethane	ND		ug/kg	100
1,2,3-Trichloropropane	ND		ug/kg	100
Styrene	ND		ug/kg	50
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	500
Methyl ethyl ketone	ND		ug/kg	500
Methyl isobutyl ketone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	100
Tetrahydrofuran	ND		ug/kg	200
1,2-Dichloropropane	ND		ug/kg	100
1,2-Dibromoethane	ND		ug/kg	50
1,3-Dichloropropane	ND		ug/kg	100
1,1,1,2-Tetrachloroethane	ND		ug/kg	25
Bromobenzene	ND		ug/kg	100
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	100
o-Chlorotoluene	ND		ug/kg	100

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 14:14
 Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1284521-5					
p-Chlorotoluene	ND		ug/kg	50	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	100		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/14/19 09:00
 Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 27,4045 Batch: WG1284565-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/14/19 09:00
 Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 27,4,45 Batch: WG1284565-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Bromodichloromethane	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/14/19 09:00
 Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 27,4145 Batch: WG1284565-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	91		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 17:36
 Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12,5,113 Batch: WG1284596-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 17:36
 Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12,5,113 Batch: WG1284596-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Bromodichloromethane	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 17:36
 Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12,5,113 Batch: WG1284596-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 17:36
 Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11,56,101,115,138-139,143 Batch: WG1284598-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 17:36
 Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11,56,101,115,138-139,143 Batch: WG1284598-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Bromoethane	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/15/19 17:36
 Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11,56,56,101,115,138-139,143 Batch: WG1284598-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/16/19 08:09
 Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 44 Batch: WG1284780-5					
Methylene chloride	ND		ug/kg	50	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoforn	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/16/19 08:09
 Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 44 Batch: WG1284780-5					
1,2-Dichlorobenzene	ND		ug/kg	50	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/16/19 08:09
 Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 44 Batch: WG1284780-5					
p-Chlorotoluene	ND		ug/kg	50	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	93		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/16/19 08:09
 Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,105,140 Batch: WG1284781-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/16/19 08:09
 Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,105,140 Batch: WG1284781-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Bromodichloromethane	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/16/19 08:09
 Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,105,140 Batch: WG1284781-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	93		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/16/19 20:21
 Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 138-43 Batch: WG1284929-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/16/19 20:21
 Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 138-43 Batch: WG1284929-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Bromodichloromethane	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/16/19 20:21
 Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 138-43 Batch: WG1284929-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	91		70-130

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/17/19 09:02
 Analyst: NLK

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27 Batch: WG1285102-5					
Methylene chloride	ND		ug/kg	50	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoforn	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/17/19 09:02
 Analyst: NLK

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27 Batch: WG1285102-5					
1,2-Dichlorobenzene	ND		ug/kg	50	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8260C
 Analytical Date: 09/17/19 09:02
 Analyst: NLK

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27 Batch: WG1285102-5					
p-Chlorotoluene	ND		ug/kg	50	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
Methylene chloride	92		92		70-130	0		20
1,1-Dichloroethane	109		109		70-130	0		20
Chloroform	116		114		70-130	2		20
Carbon tetrachloride	127		123		70-130	3		20
1,2-Dichloropropane	108		107		70-130	1		20
Dibromochloromethane	106		105		70-130	1		20
1,1,2-Trichloroethane	98		98		70-130	2		20
Tetrachloroethene	101		100		70-130	1		20
Chlorobenzene	97		95		70-130	2		20
Trichlorofluoromethane	132	Q	127		70-130	4		20
1,2-Dichloroethane	135	Q	132	Q	70-130	2		20
1,1,1-Trichloroethane	121		118		70-130	3		20
Bromodichloromethane	113		114		70-130	1		20
trans-1,3-Dichloropropene	102		102		70-130	0		20
cis-1,3-Dichloropropene	106		106		70-130	0		20
1,1-Dichloropropene	105		105		70-130	0		20
Bromoform	101		103		70-130	2		20
1,1,2,2-Tetrachloroethane	89		87		70-130	2		20
Benzene			97		70-130	1		20
Toluene	96		94		70-130	2		20
Ethylbenzene	102		100		70-130	2		20
Chloromethane	133	Q	131	Q	70-130	2		20
Bromomethane	79		80		70-130	1		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
Vinyl chloride	95		94		70-130	1		20
Chloroethane	83		82		70-130	1		20
1,1-Dichloroethene	87		86		70-130	1		20
trans-1,2-Dichloroethene	95		94		70-130	1		20
Trichloroethene	105		104		70-130	1		20
1,2-Dichlorobenzene	96		96		70-130	0		20
1,3-Dichlorobenzene	97		97		70-130	0		20
1,4-Dichlorobenzene	97		97		70-130	0		20
Methyl tert butyl ether	103		103		70-130	0		20
p/m-Xylene	100		98		70-130	2		20
o-Xylene	98		97		70-130	1		20
cis-1,2-Dichloroethene	102		99		70-130	3		20
Dibromomethane	114		115		70-130	1		20
1,2,3-Trichloropropane	97		96		70-130	1		20
Styrene	98		97		70-130	1		20
Dichlorodifluoromethane	152	Q	148	Q	70-130	3		20
Acetone	122		123		70-130	9		20
Carbon disulfide	85		85		70-130	0		20
Methyl ethyl ketone			127		70-130	12		20
Methyl isobutyl ketone	98		93		70-130	5		20
2-Hexanone	88		91		70-130	3		20
Bromochloromethane	105		106		70-130	1		20
Tetrahydrofuran	114		121		70-130	6		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
2,2-Dichloropropane	116		114		70-130	2		20
1,2-Dibromoethane	99		100		70-130	1		20
1,3-Dichloropropane	99		98		70-130	1		20
1,1,1,2-Tetrachloroethane	104		104		70-130	0		20
Bromobenzene	92		91		70-130	1		20
n-Butylbenzene	96		94		70-130	2		20
sec-Butylbenzene	91		89		70-130	1		20
tert-Butylbenzene	90		89		70-130	1		20
o-Chlorotoluene	92		90		70-130	2		20
p-Chlorotoluene	90		90		70-130	0		20
1,2-Dibromo-3-chloropropane	97		102		70-130	5		20
Hexachlorobutadiene	96		98		70-130	2		20
Isopropylbenzene	87		86		70-130	1		20
p-Isopropyltoluene	92		91		70-130	1		20
Naphthalene	87		91		70-130	4		20
n-Propylbenzene	90		90		70-130	0		20
1,2,3-Trichlorobenzene	98		100		70-130	2		20
1,2,4-Trichlorobenzene	98		98		70-130	0		20
1,3,5-Trimethylbenzene			91		70-130	0		20
1,2,4-Trimethylbenzene	92		92		70-130	0		20
Diethyl ether	77		76		70-130	1		20
Diisopropyl Ether	104		104		70-130	0		20
Ethyl-Tert-Butyl-Ether	103		102		70-130	1		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
Tertiary-Amyl Methyl Ether	94		94		70-130	0		20
1,4-Dioxane	87		91		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		123		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	84		85		70-130
Dibromofluoromethane	104		105		70-130

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
Methylene chloride	96		94		70-130	2		20
1,1-Dichloroethane	106		103		70-130	3		20
Chloroform	104		104		70-130	0		20
Carbon tetrachloride	109		107		70-130	2		20
1,2-Dichloropropane	109		105		70-130	4		20
Dibromochloromethane	100		98		70-130	2		20
1,1,2-Trichloroethane	99		99		70-130	0		20
Tetrachloroethene	99		95		70-130	4		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	128		122		70-130	5		20
1,2-Dichloroethane	113		111		70-130	2		20
1,1,1-Trichloroethane	107		102		70-130	5		20
Bromodichloromethane	104		101		70-130	3		20
trans-1,3-Dichloropropene	98		96		70-130	2		20
cis-1,3-Dichloropropene	102		99		70-130	3		20
1,1-Dichloropropene	103		99		70-130	4		20
Bromoform	100		96		70-130	4		20
1,1,2,2-Tetrachloroethane	94		89		70-130	5		20
Benzene	96		95		70-130	3		20
Toluene	96		93		70-130	3		20
Ethylbenzene	98		95		70-130	3		20
Chloromethane	129		121		70-130	6		20
Bromomethane	89		87		70-130	2		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
Vinyl chloride	103		99		70-130	4		20
Chloroethane	95		91		70-130	4		20
1,1-Dichloroethene	94		87		70-130	8		20
trans-1,2-Dichloroethene	95		93		70-130	2		20
Trichloroethene	102		98		70-130	4		20
1,2-Dichlorobenzene	96		91		70-130	5		20
1,3-Dichlorobenzene	96		91		70-130	5		20
1,4-Dichlorobenzene	96		92		70-130	4		20
Methyl tert butyl ether	98		95		70-130	3		20
p/m-Xylene	96		94		70-130	2		20
o-Xylene	94		92		70-130	2		20
cis-1,2-Dichloroethene	99		96		70-130	3		20
Dibromomethane	108		104		70-130	4		20
1,2,3-Trichloropropane	99		93		70-130	6		20
Styrene	95		91		70-130	4		20
Dichlorodifluoromethane	141	Q	137	Q	70-130	3		20
Acetone	111		108		70-130	3		20
Carbon disulfide	90		85		70-130	6		20
Methyl ethyl ketone			109		70-130	2		20
Methyl isobutyl ketone	99		96		70-130	3		20
2-Hexanone	86		83		70-130	4		20
Bromochloromethane	103		101		70-130	2		20
Tetrahydrofuran	118		113		70-130	4		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
2,2-Dichloropropane	103		100		70-130	3		20
1,2-Dibromoethane	100		97		70-130	3		20
1,3-Dichloropropane	101		97		70-130	4		20
1,1,1,2-Tetrachloroethane	98		94		70-130	4		20
Bromobenzene	94		90		70-130	4		20
n-Butylbenzene	97		91		70-130	6		20
sec-Butylbenzene	93		88		70-130	4		20
tert-Butylbenzene	92		86		70-130	7		20
o-Chlorotoluene	94		89		70-130	5		20
p-Chlorotoluene	92		88		70-130	4		20
1,2-Dibromo-3-chloropropane	96		92		70-130	4		20
Hexachlorobutadiene	95		90		70-130	5		20
Isopropylbenzene	90		85		70-130	6		20
p-Isopropyltoluene	93		88		70-130	6		20
Naphthalene	90		87		70-130	3		20
n-Propylbenzene	94		88		70-130	7		20
1,2,3-Trichlorobenzene	98		93		70-130	5		20
1,2,4-Trichlorobenzene	99		93		70-130	6		20
1,3,5-Trimethylbenzene			88		70-130	4		20
1,2,4-Trimethylbenzene	92		88		70-130	4		20
Diethyl ether	80		79		70-130	1		20
Diisopropyl Ether	100		98		70-130	2		20
Ethyl-Tert-Butyl-Ether	98		94		70-130	4		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
Tertiary-Amyl Methyl Ether	91		89		70-130	2		20
1,4-Dioxane	88		88		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	91		92		70-130
4-Bromofluorobenzene	89		85		70-130
Dibromofluoromethane	100		99		70-130

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
Methylene chloride	96		94		70-130	2		20
1,1-Dichloroethane	106		103		70-130	3		20
Chloroform	104		104		70-130	0		20
Carbon tetrachloride	109		107		70-130	2		20
1,2-Dichloropropane	109		105		70-130	4		20
Dibromochloromethane	100		98		70-130	2		20
1,1,2-Trichloroethane	99		99		70-130	0		20
Tetrachloroethene	99		95		70-130	4		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	128		122		70-130	5		20
1,2-Dichloroethane	113		111		70-130	2		20
1,1,1-Trichloroethane	107		102		70-130	5		20
Bromodichloromethane	104		101		70-130	3		20
trans-1,3-Dichloropropene	98		96		70-130	2		20
cis-1,3-Dichloropropene	102		99		70-130	3		20
1,1-Dichloropropene	103		99		70-130	4		20
Bromoform	100		96		70-130	4		20
1,1,2,2-Tetrachloroethane	94		89		70-130	5		20
Benzene	95		95		70-130	3		20
Toluene	96		93		70-130	3		20
Ethylbenzene	98		95		70-130	3		20
Chloromethane	129		121		70-130	6		20
Bromomethane	89		87		70-130	2		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4									
Vinyl chloride	103		99		70-130		4		20
Chloroethane	95		91		70-130		4		20
1,1-Dichloroethene	94		87		70-130		8		20
trans-1,2-Dichloroethene	95		93		70-130		2		20
Trichloroethene	102		98		70-130		4		20
1,2-Dichlorobenzene	96		91		70-130		5		20
1,3-Dichlorobenzene	96		91		70-130		5		20
1,4-Dichlorobenzene	96		92		70-130		4		20
Methyl tert butyl ether	98		95		70-130		3		20
p/m-Xylene	96		94		70-130		2		20
o-Xylene	94		92		70-130		2		20
cis-1,2-Dichloroethene	99		96		70-130		3		20
Dibromomethane	108		104		70-130		4		20
1,2,3-Trichloropropane	99		93		70-130		6		20
Styrene	95		91		70-130		4		20
Dichlorodifluoromethane	141	Q	137	Q	70-130		3		20
Acetone	111		108		70-130		3		20
Carbon disulfide	90		85		70-130		6		20
Methyl ethyl ketone			109		70-130		2		20
Methyl isobutyl ketone	99		96		70-130		3		20
2-Hexanone	86		83		70-130		4		20
Bromochloromethane	103		101		70-130		2		20
Tetrahydrofuran	118		113		70-130		4		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
2,2-Dichloropropane	103		100		70-130	3		20
1,2-Dibromoethane	100		97		70-130	3		20
1,3-Dichloropropane	101		97		70-130	4		20
1,1,1,2-Tetrachloroethane	98		94		70-130	4		20
Bromobenzene	94		90		70-130	4		20
n-Butylbenzene	97		91		70-130	6		20
sec-Butylbenzene	93		88		70-130	4		20
tert-Butylbenzene	92		86		70-130	7		20
o-Chlorotoluene	94		89		70-130	5		20
p-Chlorotoluene	92		88		70-130	4		20
1,2-Dibromo-3-chloropropane	96		92		70-130	4		20
Hexachlorobutadiene	95		90		70-130	5		20
Isopropylbenzene	90		85		70-130	6		20
p-Isopropyltoluene	93		88		70-130	6		20
Naphthalene	90		87		70-130	3		20
n-Propylbenzene	94		88		70-130	7		20
1,2,3-Trichlorobenzene	98		93		70-130	5		20
1,2,4-Trichlorobenzene	99		93		70-130	6		20
1,3,5-Trimethylbenzene			88		70-130	4		20
1,2,4-Trimethylbenzene	92		88		70-130	4		20
Diethyl ether	80		79		70-130	1		20
Diisopropyl Ether	100		98		70-130	2		20
Ethyl-Tert-Butyl-Ether	98		94		70-130	4		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
Tertiary-Amyl Methyl Ether	91		89		70-130	2		20
1,4-Dioxane	88		88		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	91		92		70-130
4-Bromofluorobenzene	89		86		70-130
Dibromofluoromethane	100		99		70-130

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
Methylene chloride	80		78		70-130	3		20
1,1-Dichloroethane	94		91		70-130	3		20
Chloroform	92		89		70-130	3		20
Carbon tetrachloride	94		91		70-130	3		20
1,2-Dichloropropane	89		88		70-130	1		20
Dibromochloromethane	91		90		70-130	1		20
1,1,2-Trichloroethane	86		85		70-130	4		20
Tetrachloroethene	94		90		70-130	4		20
Chlorobenzene	92		90		70-130	2		20
Trichlorofluoromethane	95		91		70-130	4		20
1,2-Dichloroethane	90		88		70-130	2		20
1,1,1-Trichloroethane	96		93		70-130	3		20
Bromodichloromethane	91		90		70-130	1		20
trans-1,3-Dichloropropene	90		88		70-130	2		20
cis-1,3-Dichloropropene	88		86		70-130	2		20
1,1-Dichloropropene	92		89		70-130	3		20
Bromoform	90		78		70-130	3		20
1,1,2,2-Tetrachloroethane	84		85		70-130	1		20
Benzene	92		87		70-130	2		20
Toluene	92		88		70-130	4		20
Ethylbenzene	93		91		70-130	2		20
Chloromethane	112		109		70-130	3		20
Bromomethane	99		86		70-130	14		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
Vinyl chloride	95		90		70-130	5		20
Chloroethane	87		83		70-130	5		20
1,1-Dichloroethene	91		87		70-130	4		20
trans-1,2-Dichloroethene	92		87		70-130	6		20
Trichloroethene	91		88		70-130	3		20
1,2-Dichlorobenzene	89		88		70-130	1		20
1,3-Dichlorobenzene	93		89		70-130	3		20
1,4-Dichlorobenzene	92		90		70-130	2		20
Methyl tert butyl ether	79		88		70-130	1		20
p/m-Xylene	95		92		70-130	3		20
o-Xylene	92		89		70-130	3		20
cis-1,2-Dichloroethene	88		85		70-130	3		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	82		83		70-130	1		20
Styrene	93		90		70-130	3		20
Dichlorodifluoromethane	100		97		70-130	3		20
Acetone	101		105		70-130	4		20
Carbon disulfide	88		84		70-130	5		20
Methyl ethyl ketone			94		70-130	7		20
Methyl isobutyl ketone	79		83		70-130	5		20
2-Hexanone	90		92		70-130	2		20
Bromochloromethane	89		86		70-130	3		20
Tetrahydrofuran	94		95		70-130	1		20

NOT APPLICABLE



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
2,2-Dichloropropane	91		88		70-130	3		20
1,2-Dibromoethane	87		86		70-130	1		20
1,3-Dichloropropane	85		84		70-130	1		20
1,1,1,2-Tetrachloroethane	95		91		70-130	4		20
Bromobenzene	86		85		70-130	1		20
n-Butylbenzene	98		96		70-130	2		20
sec-Butylbenzene	95		90		70-130	3		20
tert-Butylbenzene	92		90		70-130	2		20
o-Chlorotoluene	94		90		70-130	4		20
p-Chlorotoluene	94		93		70-130	1		20
1,2-Dibromo-3-chloropropane	74		78		70-130	5		20
Hexachlorobutadiene	86		85		70-130	1		20
Isopropylbenzene	94		90		70-130	4		20
p-Isopropyltoluene	95		92		70-130	3		20
Naphthalene	82		83		70-130	1		20
n-Propylbenzene	95		93		70-130	2		20
1,2,3-Trichlorobenzene	87		86		70-130	1		20
1,2,4-Trichlorobenzene	92		90		70-130	2		20
1,3,5-Trimethylbenzene			92		70-130	2		20
1,2,4-Trimethylbenzene	94		92		70-130	2		20
Diethyl ether	80		80		70-130	0		20
Diisopropyl Ether	102		101		70-130	1		20
Ethyl-Tert-Butyl-Ether	86		85		70-130	1		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
Tertiary-Amyl Methyl Ether	77		76		70-130	1		20
1,4-Dioxane	96		98		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		100		70-130
Toluene-d8	102		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	95		97		70-130

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 / WG1284596-4								
Methylene chloride	89		91		70-130	2		20
1,1-Dichloroethane	104		105		70-130	1		20
Chloroform	101		103		70-130	2		20
Carbon tetrachloride	102		102		70-130	0		20
1,2-Dichloropropane	100		102		70-130	2		20
Dibromochloromethane	98		102		70-130	4		20
1,1,2-Trichloroethane	93		99		70-130	3		20
Tetrachloroethene	98		99		70-130	1		20
Chlorobenzene	99		101		70-130	2		20
Trichlorofluoromethane	103		103		70-130	0		20
1,2-Dichloroethane	100		104		70-130	4		20
1,1,1-Trichloroethane	105		106		70-130	1		20
Bromodichloromethane	101		103		70-130	2		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	101		101		70-130	0		20
Bromoform	87		90		70-130	3		20
1,1,2,2-Tetrachloroethane	96		99		70-130	3		20
Benzene			100		70-130	2		20
Toluene	99		98		70-130	1		20
Ethylbenzene	100		102		70-130	2		20
Chloromethane	128		127		70-130	1		20
Bromomethane	96		94		70-130	2		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
Vinyl chloride	104		107		70-130	3		20
Chloroethane	96		95		70-130	1		20
1,1-Dichloroethene	98		98		70-130	0		20
trans-1,2-Dichloroethene	98		99		70-130	1		20
Trichloroethene	100		102		70-130	2		20
1,2-Dichlorobenzene	97		100		70-130	3		20
1,3-Dichlorobenzene	99		102		70-130	3		20
1,4-Dichlorobenzene	100		100		70-130	2		20
Methyl tert butyl ether	90		101		70-130	1		20
p/m-Xylene	101		103		70-130	2		20
o-Xylene	98		101		70-130	3		20
cis-1,2-Dichloroethene	97		97		70-130	0		20
Dibromomethane	94		97		70-130	3		20
1,2,3-Trichloropropane	93		98		70-130	5		20
Styrene	100		102		70-130	2		20
Dichlorodifluoromethane	110		109		70-130	1		20
Acetone	121		118		70-130	3		20
Carbon disulfide	96		95		70-130	1		20
Methyl ethyl ketone			114		70-130	9		20
Methyl isobutyl ketone	96		99		70-130	3		20
2-Hexanone	107		110		70-130	3		20
Bromochloromethane	97		96		70-130	1		20
Tetrahydrofuran	110		116		70-130	5		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
2,2-Dichloropropane	100		101		70-130	1		20
1,2-Dibromoethane	95		99		70-130	4		20
1,3-Dichloropropane	94		98		70-130	4		20
1,1,1,2-Tetrachloroethane	101		102		70-130	1		20
Bromobenzene	92		95		70-130	3		20
n-Butylbenzene	108		111		70-130	3		20
sec-Butylbenzene	102		105		70-130	3		20
tert-Butylbenzene	100		100		70-130	2		20
o-Chlorotoluene	102		105		70-130	3		20
p-Chlorotoluene	103		106		70-130	3		20
1,2-Dibromo-3-chloropropane	84		91		70-130	8		20
Hexachlorobutadiene	91		93		70-130	2		20
Isopropylbenzene	101		103		70-130	2		20
p-Isopropyltoluene	104		106		70-130	2		20
Naphthalene	91		97		70-130	6		20
n-Propylbenzene	104		106		70-130	2		20
1,2,3-Trichlorobenzene	96		97		70-130	1		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	97		104		70-130	2		20
1,2,4-Trimethylbenzene	103		105		70-130	2		20
Diethyl ether	89		92		70-130	3		20
Diisopropyl Ether	118		120		70-130	2		20
Ethyl-Tert-Butyl-Ether	97		100		70-130	3		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
Tertiary-Amyl Methyl Ether	86		88		70-130	2		20
1,4-Dioxane	88		95		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	97		98		70-130

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,140 Batch: WG1284598-3 WG1284598-4								
Methylene chloride	89		91		70-130	2		20
1,1-Dichloroethane	104		105		70-130	1		20
Chloroform	101		103		70-130	2		20
Carbon tetrachloride	102		102		70-130	0		20
1,2-Dichloropropane	100		102		70-130	2		20
Dibromochloromethane	98		102		70-130	4		20
1,1,2-Trichloroethane	93		98		70-130	3		20
Tetrachloroethene	98		95		70-130	1		20
Chlorobenzene	99		101		70-130	2		20
Trichlorofluoromethane	103		103		70-130	0		20
1,2-Dichloroethane	100		104		70-130	4		20
1,1,1-Trichloroethane	105		106		70-130	1		20
Bromodichloromethane	101		103		70-130	2		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	101		101		70-130	0		20
Bromoform	87		90		70-130	3		20
1,1,2,2-Tetrachloroethane	96		99		70-130	3		20
Benzene			100		70-130	2		20
Toluene	99		98		70-130	1		20
Ethylbenzene	100		102		70-130	2		20
Chloromethane	128		127		70-130	1		20
Bromomethane	96		94		70-130	2		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,140 Batch: WG1284598-3 WG1284598-4								
Vinyl chloride	104		107		70-130	3		20
Chloroethane	96		95		70-130	1		20
1,1-Dichloroethene	98		98		70-130	0		20
trans-1,2-Dichloroethene	98		99		70-130	1		20
Trichloroethene	100		102		70-130	2		20
1,2-Dichlorobenzene	97		100		70-130	3		20
1,3-Dichlorobenzene	99		102		70-130	3		20
1,4-Dichlorobenzene	100		100		70-130	2		20
Methyl tert butyl ether	90		101		70-130	1		20
p/m-Xylene	101		103		70-130	2		20
o-Xylene	98		101		70-130	3		20
cis-1,2-Dichloroethene	97		97		70-130	0		20
Dibromomethane	94		97		70-130	3		20
1,2,3-Trichloropropane	93		98		70-130	5		20
Styrene	100		102		70-130	2		20
Dichlorodifluoromethane	110		109		70-130	1		20
Acetone	121		118		70-130	3		20
Carbon disulfide	96		95		70-130	1		20
Methyl ethyl ketone			114		70-130	9		20
Methyl isobutyl ketone	96		99		70-130	3		20
2-Hexanone	107		110		70-130	3		20
Bromochloromethane	97		96		70-130	1		20
Tetrahydrofuran	110		116		70-130	5		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	PPM	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,140 Batch: WG1284598-3 WG1284598-4								
2,2-Dichloropropane	100		101		70-130	1		20
1,2-Dibromoethane	95		99		70-130	4		20
1,3-Dichloropropane	94		98		70-130	4		20
1,1,1,2-Tetrachloroethane	101		102		70-130	1		20
Bromobenzene	92		95		70-130	3		20
n-Butylbenzene	108		111		70-130	3		20
sec-Butylbenzene	102		105		70-130	3		20
tert-Butylbenzene	100		100		70-130	2		20
o-Chlorotoluene	102		105		70-130	3		20
p-Chlorotoluene	103		106		70-130	3		20
1,2-Dibromo-3-chloropropane	84		91		70-130	8		20
Hexachlorobutadiene	91		93		70-130	2		20
Isopropylbenzene	101		103		70-130	2		20
p-Isopropyltoluene	104		106		70-130	2		20
Naphthalene	91		97		70-130	6		20
n-Propylbenzene	104		106		70-130	2		20
1,2,3-Trichlorobenzene	96		97		70-130	1		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	97		104		70-130	2		20
1,2,4-Trimethylbenzene	103		105		70-130	2		20
Diethyl ether	89		92		70-130	3		20
Diisopropyl Ether	118		120		70-130	2		20
Ethyl-Tert-Butyl-Ether	97		100		70-130	3		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,140 Batch: WG1284598-3 WG1284598-4								
Tertiary-Amyl Methyl Ether	86		88		70-130	2		20
1,4-Dioxane	88		95		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	97		98		70-130

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
Methylene chloride	90		93		70-130	3		20
1,1-Dichloroethane	107		108		70-130	1		20
Chloroform	105		107		70-130	2		20
Carbon tetrachloride	107		109		70-130	2		20
1,2-Dichloropropane	104		106		70-130	2		20
Dibromochloromethane	104		106		70-130	2		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	102		100		70-130	1		20
Chlorobenzene	103		104		70-130	1		20
Trichlorofluoromethane	106		106		70-130	0		20
1,2-Dichloroethane	105		108		70-130	3		20
1,1,1-Trichloroethane	109		111		70-130	2		20
Bromodichloromethane	106		110		70-130	4		20
trans-1,3-Dichloropropene	103		105		70-130	2		20
cis-1,3-Dichloropropene	102		104		70-130	2		20
1,1-Dichloropropene	104		108		70-130	4		20
Bromoform	91		95		70-130	4		20
1,1,1,2-Tetrachloroethane	100		104		70-130	4		20
Benzene			103		70-130	2		20
Toluene	101		103		70-130	2		20
Ethylbenzene	105		107		70-130	2		20
Chloromethane	113		113		70-130	0		20
Bromomethane	93		89		70-130	4		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	RPD			
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4									
Vinyl chloride	96		100		70-130	4			20
Chloroethane	94		94		70-130	0			20
1,1-Dichloroethene	100		101		70-130	1			20
trans-1,2-Dichloroethene	101		102		70-130	1			20
Trichloroethene	104		105		70-130	1			20
1,2-Dichlorobenzene	100		102		70-130	2			20
1,3-Dichlorobenzene	102		103		70-130	3			20
1,4-Dichlorobenzene	102		100		70-130	2			20
Methyl tert butyl ether	92		94		70-130	2			20
p/m-Xylene	106		107		70-130	1			20
o-Xylene	102		104		70-130	2			20
cis-1,2-Dichloroethene	98		100		70-130	2			20
Dibromomethane	98		102		70-130	4			20
1,2,3-Trichloropropane	97		102		70-130	5			20
Styrene	104		106		70-130	2			20
Dichlorodifluoromethane	84		83		70-130	1			20
Acetone	21		134	Q	70-130	10			20
Carbon disulfide	94		96		70-130	2			20
Methyl ethyl ketone			112		70-130	0			20
Methyl isobutyl ketone	97		102		70-130	5			20
2-Hexanone	110		114		70-130	4			20
Bromochloromethane	100		102		70-130	2			20
Tetrahydrofuran	116		120		70-130	3			20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS/D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
2,2-Dichloropropane	103		105		70-130	2		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	99		101		70-130	2		20
1,1,1,2-Tetrachloroethane	106		108		70-130	2		20
Bromobenzene	95		98		70-130	3		20
n-Butylbenzene	109		112		70-130	3		20
sec-Butylbenzene	105		103		70-130	3		20
tert-Butylbenzene	102		100		70-130	3		20
o-Chlorotoluene	104		107		70-130	3		20
p-Chlorotoluene	106		109		70-130	3		20
1,2-Dibromo-3-chloropropane	88		93		70-130	6		20
Hexachlorobutadiene	88		90		70-130	2		20
Isopropylbenzene	104		107		70-130	3		20
p-Isopropyltoluene	105		108		70-130	3		20
Naphthalene	96		99		70-130	3		20
n-Propylbenzene	107		109		70-130	2		20
1,2,3-Trichlorobenzene	97		98		70-130	1		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene			107		70-130	3		20
1,2,4-Trimethylbenzene	105		108		70-130	3		20
Diethyl ether	92		93		70-130	1		20
Diisopropyl Ether	122		124		70-130	2		20
Ethyl-Tert-Butyl-Ether	100		103		70-130	3		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
Tertiary-Amyl Methyl Ether	90		94		70-130	4		20
1,4-Dioxane	88		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	97		98		70-130

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
Methylene chloride	90		93		70-130	3		20
1,1-Dichloroethane	107		108		70-130	1		20
Chloroform	105		107		70-130	2		20
Carbon tetrachloride	107		109		70-130	2		20
1,2-Dichloropropane	104		106		70-130	2		20
Dibromochloromethane	104		106		70-130	2		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	102		100		70-130	1		20
Chlorobenzene	103		104		70-130	1		20
Trichlorofluoromethane	106		106		70-130	0		20
1,2-Dichloroethane	105		108		70-130	3		20
1,1,1-Trichloroethane	109		111		70-130	2		20
Bromodichloromethane	106		110		70-130	4		20
trans-1,3-Dichloropropene	103		105		70-130	2		20
cis-1,3-Dichloropropene	102		104		70-130	2		20
1,1-Dichloropropene	104		108		70-130	4		20
Bromoform	91		95		70-130	4		20
1,1,2,2-Tetrachloroethane	100		104		70-130	4		20
Benzene			103		70-130	2		20
Toluene	101		103		70-130	2		20
Ethylbenzene	105		107		70-130	2		20
Chloromethane	113		113		70-130	0		20
Bromomethane	93		89		70-130	4		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	PPM	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
Vinyl chloride	96		100		70-130	4		20
Chloroethane	94		94		70-130	0		20
1,1-Dichloroethene	100		101		70-130	1		20
trans-1,2-Dichloroethene	101		102		70-130	1		20
Trichloroethene	104		105		70-130	1		20
1,2-Dichlorobenzene	100		102		70-130	2		20
1,3-Dichlorobenzene	102		103		70-130	3		20
1,4-Dichlorobenzene	102		100		70-130	2		20
Methyl tert butyl ether	92		94		70-130	2		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	102		104		70-130	2		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Dibromomethane	98		102		70-130	4		20
1,2,3-Trichloropropane	97		102		70-130	5		20
Styrene	104		106		70-130	2		20
Dichlorodifluoromethane	84		83		70-130	1		20
Acetone	21		134	Q	70-130	10		20
Carbon disulfide	94		96		70-130	2		20
Methyl ethyl ketone			112		70-130	0		20
Methyl isobutyl ketone	97		102		70-130	5		20
2-Hexanone	110		114		70-130	4		20
Bromochloromethane	100		102		70-130	2		20
Tetrahydrofuran	116		120		70-130	3		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
2,2-Dichloropropane	103		105		70-130	2		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	99		101		70-130	2		20
1,1,1,2-Tetrachloroethane	106		108		70-130	2		20
Bromobenzene	95		98		70-130	3		20
n-Butylbenzene	109		112		70-130	3		20
sec-Butylbenzene	105		103		70-130	3		20
tert-Butylbenzene	102		100		70-130	3		20
o-Chlorotoluene	104		107		70-130	3		20
p-Chlorotoluene	106		109		70-130	3		20
1,2-Dibromo-3-chloropropane	88		93		70-130	6		20
Hexachlorobutadiene	88		90		70-130	2		20
Isopropylbenzene	104		107		70-130	3		20
p-Isopropyltoluene	105		108		70-130	3		20
Naphthalene	96		99		70-130	3		20
n-Propylbenzene	107		109		70-130	2		20
1,2,3-Trichlorobenzene	97		98		70-130	1		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene			107		70-130	3		20
1,2,4-Trimethylbenzene	105		108		70-130	3		20
Diethyl ether	92		93		70-130	1		20
Diisopropyl Ether	122		124		70-130	2		20
Ethyl-Tert-Butyl-Ether	100		103		70-130	3		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
Tertiary-Amyl Methyl Ether	90		94		70-130	4		20
1,4-Dioxane	88		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	97		98		70-130

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	RPD			
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4									
Methylene chloride	92		92		70-130	0			20
1,1-Dichloroethane	110		109		70-130	1			20
Chloroform	107		106		70-130	1			20
Carbon tetrachloride	108		109		70-130	1			20
1,2-Dichloropropane	101		104		70-130	3			20
Dibromochloromethane	100		100		70-130	0			20
1,1,2-Trichloroethane	96		98		70-130	1			20
Tetrachloroethene	103		103		70-130	0			20
Chlorobenzene	103		103		70-130	0			20
Trichlorofluoromethane	112		110		70-130	2			20
1,2-Dichloroethane	103		104		70-130	1			20
1,1,1-Trichloroethane	111		110		70-130	1			20
Bromodichloromethane	105		105		70-130	0			20
trans-1,3-Dichloropropene	99		101		70-130	2			20
cis-1,3-Dichloropropene	99		101		70-130	2			20
1,1-Dichloropropene	109		108		70-130	1			20
Bromoform	85		86		70-130	1			20
1,1,2,2-Tetrachloroethane	97		99		70-130	2			20
Benzene			103		70-130	1			20
Toluene	103		104		70-130	1			20
Ethylbenzene	107		106		70-130	1			20
Chloromethane	137	Q	138	Q	70-130	1			20
Bromomethane	104		98		70-130	6			20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
Vinyl chloride	116		113		70-130	3		20
Chloroethane	103		102		70-130	1		20
1,1-Dichloroethene	106		106		70-130	0		20
trans-1,2-Dichloroethene	106		104		70-130	2		20
Trichloroethene	106		106		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	103		103		70-130	0		20
1,4-Dichlorobenzene	102		102		70-130	0		20
Methyl tert butyl ether	88		89		70-130	1		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	103		103		70-130	0		20
cis-1,2-Dichloroethene	101		102		70-130	1		20
Dibromomethane	95		96		70-130	1		20
1,2,3-Trichloropropane	95		98		70-130	3		20
Styrene	102		103		70-130	0		20
Dichlorodifluoromethane	119		118		70-130	1		20
Acetone	133	Q	137	Q	70-130	3		20
Carbon disulfide	103		102		70-130	1		20
Methyl ethyl ketone			116		70-130	3		20
Methyl isobutyl ketone	95		97		70-130	2		20
2-Hexanone	107		112		70-130	5		20
Bromochloromethane	97		96		70-130	1		20
Tetrahydrofuran	113		118		70-130	4		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	PPM	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
2,2-Dichloropropane	106		105		70-130	1		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	95		96		70-130	1		20
1,1,1,2-Tetrachloroethane	103		103		70-130	0		20
Bromobenzene	96		97		70-130	1		20
n-Butylbenzene	115		116		70-130	1		20
sec-Butylbenzene	111		111		70-130	0		20
tert-Butylbenzene	105		105		70-130	1		20
o-Chlorotoluene	107		108		70-130	1		20
p-Chlorotoluene	107		109		70-130	2		20
1,2-Dibromo-3-chloropropane	85		91		70-130	7		20
Hexachlorobutadiene	97		100		70-130	3		20
Isopropylbenzene	107		107		70-130	0		20
p-Isopropyltoluene	109		110		70-130	1		20
Naphthalene	91		94		70-130	3		20
n-Propylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	94		94		70-130	0		20
1,2,4-Trichlorobenzene	97		98		70-130	1		20
1,3,5-Trimethylbenzene			108		70-130	0		20
1,2,4-Trimethylbenzene	107		108		70-130	1		20
Diethyl ether	90		91		70-130	1		20
Diisopropyl Ether	120		120		70-130	0		20
Ethyl-Tert-Butyl-Ether	97		98		70-130	1		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
Tertiary-Amyl Methyl Ether	85		86		70-130	1		20
1,4-Dioxane	94		97		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		102		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	97		95		70-130

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
Methylene chloride	93		94		70-130	1		20
1,1-Dichloroethane	99		99		70-130	0		20
Chloroform	97		98		70-130	1		20
Carbon tetrachloride	98		99		70-130	1		20
1,2-Dichloropropane	95		96		70-130	1		20
Dibromochloromethane	94		96		70-130	2		20
1,1,2-Trichloroethane	88		88		70-130	3		20
Tetrachloroethene	97		95		70-130	2		20
Chlorobenzene	94		96		70-130	2		20
Trichlorofluoromethane	99		98		70-130	1		20
1,2-Dichloroethane	97		98		70-130	1		20
1,1,1-Trichloroethane	102		102		70-130	0		20
Bromodichloromethane	97		99		70-130	2		20
trans-1,3-Dichloropropene	93		95		70-130	2		20
cis-1,3-Dichloropropene	94		96		70-130	2		20
1,1-Dichloropropene	98		98		70-130	0		20
Bromoform	94		85		70-130	1		20
1,1,2,2-Tetrachloroethane	89		91		70-130	2		20
Benzene			95		70-130	1		20
Toluene	92		94		70-130	2		20
Ethylbenzene	96		96		70-130	0		20
Chloromethane	118		118		70-130	0		20
Bromomethane	90		89		70-130	1		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
Vinyl chloride	99		98		70-130	1		20
Chloroethane	92		89		70-130	3		20
1,1-Dichloroethene	96		96		70-130	0		20
trans-1,2-Dichloroethene	96		96		70-130	0		20
Trichloroethene	96		97		70-130	1		20
1,2-Dichlorobenzene	92		93		70-130	1		20
1,3-Dichlorobenzene	94		94		70-130	1		20
1,4-Dichlorobenzene	94		94		70-130	0		20
Methyl tert butyl ether	86		88		70-130	2		20
p/m-Xylene	97		98		70-130	1		20
o-Xylene	94		95		70-130	1		20
cis-1,2-Dichloroethene	93		94		70-130	1		20
Dibromomethane	93		92		70-130	1		20
1,2,3-Trichloropropane	88		89		70-130	1		20
Styrene	94		96		70-130	2		20
Dichlorodifluoromethane	102		100		70-130	2		20
Acetone	112		115		70-130	3		20
Carbon disulfide	93		93		70-130	0		20
Methyl ethyl ketone			104		70-130	5		20
Methyl isobutyl ketone	89		92		70-130	3		20
2-Hexanone	100		102		70-130	2		20
Bromochloromethane	95		95		70-130	0		20
Tetrahydrofuran	104		109		70-130	5		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCS D		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
2,2-Dichloropropane	97		97		70-130	0		20
1,2-Dibromoethane	92		94		70-130	2		20
1,3-Dichloropropane	89		91		70-130	2		20
1,1,1,2-Tetrachloroethane	97		98		70-130	1		20
Bromobenzene	88		89		70-130	1		20
n-Butylbenzene	97		97		70-130	0		20
sec-Butylbenzene	94		95		70-130	1		20
tert-Butylbenzene	93		93		70-130	0		20
o-Chlorotoluene	94		95		70-130	1		20
p-Chlorotoluene	96		96		70-130	0		20
1,2-Dibromo-3-chloropropane	84		85		70-130	1		20
Hexachlorobutadiene	83		83		70-130	0		20
Isopropylbenzene	95		94		70-130	1		20
p-Isopropyltoluene	94		95		70-130	1		20
Naphthalene	88		89		70-130	1		20
n-Propylbenzene	96		97		70-130	1		20
1,2,3-Trichlorobenzene	88		90		70-130	2		20
1,2,4-Trichlorobenzene	92		92		70-130	0		20
1,3,5-Trimethylbenzene			95		70-130	0		20
1,2,4-Trimethylbenzene	95		96		70-130	1		20
Diethyl ether	88		88		70-130	0		20
Diisopropyl Ether	110		111		70-130	1		20
Ethyl-Tert-Butyl-Ether	93		95		70-130	2		20

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
Tertiary-Amyl Methyl Ether	83		85		70-130	2		20
1,4-Dioxane	95		102		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		101		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	96		98		70-130

NOT APPLICABLE

**PETROLEUM
HYDROCARBONS**

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
Client ID: B-09 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:54
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 98,EPH-04-1.1
Analytical Date: 09/14/19 08:56
Analyst: MEO
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 09/11/19 00:54
Cleanup Method1: EPH-04-1
Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
Sample Temperature upon receipt: Received on Ice
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	14.1	--	2
C19-C36 Aliphatics	115		mg/kg	14.1	--	2
C11-C22 Aromatics	371		mg/kg	14.1	--	2
C11-C22 Aromatics, Adjusted	245		mg/kg	14.1	--	2
Naphthalene	ND		mg/kg	0.706	--	2
2-Methylnaphthalene	ND		mg/kg	0.706	--	2
Acenaphthylene	ND		mg/kg	0.706	--	2
Acenaphthene	1.02		mg/kg	0.706	--	2
Fluorene	1.14		mg/kg	0.706	--	2
Phenanthrene	13.2		mg/kg	0.706	--	2
Anthracene	3.58		mg/kg	0.706	--	2
Fluoranthene	22.8		mg/kg	0.706	--	2
Pyrene	19.1		mg/kg	0.706	--	2
Benzo(a)anthracene	10.3		mg/kg	0.706	--	2
Chrysene	10.8		mg/kg	0.706	--	2
Benzo(b)fluoranthene	9.48		mg/kg	0.706	--	2
Benzo(k)fluoranthene	9.16		mg/kg	0.706	--	2
Benzo(a)pyrene	10.0		mg/kg	0.706	--	2
Indeno(1,2,3-cd)Pyrene	6.97		mg/kg	0.706	--	2
Dibenzo(a,h)anthracene	1.90		mg/kg	0.706	--	2
Benzo(ghi)perylene	6.04		mg/kg	0.706	--	2

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
 Client ID: B-09 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:54
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	69		40-140
2-Fluorobiphenyl	88		40-140
2-Bromonaphthalene	87		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-105 D
 Client ID: B-09 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:02
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/16/19 16:38
 Analyst: MEO
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	27.5	--	4
C19-C36 Aliphatics	136		mg/kg	27.5	--	4
C11-C22 Aromatics	503		mg/kg	27.5	--	4
C11-C22 Aromatics, Adjusted	315		mg/kg	27.5	--	4
Naphthalene	ND		mg/kg	1.37	--	4
2-Methylnaphthalene	ND		mg/kg	1.37	--	4
Acenaphthylene	ND		mg/kg	1.37	--	4
Acenaphthene	2.13		mg/kg	1.37	--	4
Fluorene	2.42		mg/kg	1.37	--	4
Phenanthrene	21.7		mg/kg	1.37	--	4
Anthracene	6.27		mg/kg	1.37	--	4
Fluoranthene	34.7		mg/kg	1.37	--	4
Pyrene	28.9		mg/kg	1.37	--	4
Benzo(a)anthracene	15.5		mg/kg	1.37	--	4
Chrysene	15.9		mg/kg	1.37	--	4
Benzo(b)fluoranthene	13.7		mg/kg	1.37	--	4
Benzo(k)fluoranthene	13.1		mg/kg	1.37	--	4
Benzo(a)pyrene	13.8		mg/kg	1.37	--	4
Indeno(1,2,3-cd)Pyrene	9.12		mg/kg	1.37	--	4
Dibenzo(a,h)anthracene	2.60		mg/kg	1.37	--	4
Benzo(ghi)perylene	7.64		mg/kg	1.37	--	4

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-105 D

Date Collected: 09/05/19 10:02

Client ID: B-09 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	54		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	77		40-140
2-Bromonaphthalene	76		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
 Client ID: SB-4 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 03:15
 Analyst: MEO
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.74	--	1
C19-C36 Aliphatics	ND		mg/kg	6.74	--	1
C11-C22 Aromatics	12.6		mg/kg	6.74	--	1
C11-C22 Aromatics, Adjusted	11.7		mg/kg	6.74	--	1
Naphthalene	ND		mg/kg	0.337	--	1
2-Methylnaphthalene	ND		mg/kg	0.337	--	1
Acenaphthylene	ND		mg/kg	0.337	--	1
Acenaphthene	ND		mg/kg	0.337	--	1
Fluorene	ND		mg/kg	0.337	--	1
Phenanthrene	ND		mg/kg	0.337	--	1
Anthracene	ND		mg/kg	0.337	--	1
Fluoranthene	0.418		mg/kg	0.337	--	1
Pyrene	0.395		mg/kg	0.337	--	1
Benzo(a)anthracene	ND		mg/kg	0.337	--	1
Chrysene	ND		mg/kg	0.337	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.337	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.337	--	1
Benzo(a)pyrene	ND		mg/kg	0.337	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.337	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.337	--	1
Benzo(ghi)perylene	ND		mg/kg	0.337	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
 Client ID: SB-4 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	58		40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	73		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113 D
 Client ID: B-05 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:54
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/16/19 15:20
 Analyst: MEO
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	36.4	--	5
C19-C36 Aliphatics	57.2		mg/kg	36.4	--	5
C11-C22 Aromatics	408		mg/kg	36.4	--	5
C11-C22 Aromatics, Adjusted	257		mg/kg	36.4	--	5
Naphthalene	ND		mg/kg	1.82	--	5
2-Methylnaphthalene	ND		mg/kg	1.82	--	5
Acenaphthylene	ND		mg/kg	1.82	--	5
Acenaphthene	2.25		mg/kg	1.82	--	5
Fluorene	2.56		mg/kg	1.82	--	5
Phenanthrene	26.6		mg/kg	1.82	--	5
Anthracene	7.11		mg/kg	1.82	--	5
Fluoranthene	29.9		mg/kg	1.82	--	5
Pyrene	24.4		mg/kg	1.82	--	5
Benzo(a)anthracene	12.7		mg/kg	1.82	--	5
Chrysene	12.5		mg/kg	1.82	--	5
Benzo(b)fluoranthene	8.56		mg/kg	1.82	--	5
Benzo(k)fluoranthene	8.82		mg/kg	1.82	--	5
Benzo(a)pyrene	9.76		mg/kg	1.82	--	5
Indeno(1,2,3-cd)Pyrene	5.97		mg/kg	1.82	--	5
Dibenzo(a,h)anthracene	ND		mg/kg	1.82	--	5
Benzo(ghi)perylene	5.06		mg/kg	1.82	--	5

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113 D
 Client ID: B-05 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:54
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	82		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
 Client ID: B-05 (3-5)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 05:08
 Analyst: MEO
 Percent Solids: 69%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.33	--	1
C19-C36 Aliphatics	ND		mg/kg	9.33	--	1
C11-C22 Aromatics	64.4		mg/kg	9.33	--	1
C11-C22 Aromatics, Adjusted	48.7		mg/kg	9.33	--	1
Naphthalene	ND		mg/kg	0.466	--	1
2-Methylnaphthalene	ND		mg/kg	0.466	--	1
Acenaphthylene	ND		mg/kg	0.466	--	1
Acenaphthene	0.500		mg/kg	0.466	--	1
Fluorene	ND		mg/kg	0.466	--	1
Phenanthrene	2.60		mg/kg	0.466	--	1
Anthracene	0.490		mg/kg	0.466	--	1
Fluoranthene	2.74		mg/kg	0.466	--	1
Pyrene	2.34		mg/kg	0.466	--	1
Benzo(a)anthracene	1.14		mg/kg	0.466	--	1
Chrysene	1.33		mg/kg	0.466	--	1
Benzo(b)fluoranthene	1.04		mg/kg	0.466	--	1
Benzo(k)fluoranthene	1.07		mg/kg	0.466	--	1
Benzo(a)pyrene	1.07		mg/kg	0.466	--	1
Indeno(1,2,3-cd)Pyrene	0.719		mg/kg	0.466	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.466	--	1
Benzo(ghi)perylene	0.580		mg/kg	0.466	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
 Client ID: B-05 (3-5)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	69		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
Client ID: SB-4 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 98,EPH-04-1.1
Analytical Date: 09/14/19 03:52
Analyst: MEO
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 09/11/19 00:54
Cleanup Method1: EPH-04-1
Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
Sample Temperature upon receipt: Received on Ice
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.80	--	1
C19-C36 Aliphatics	16.6		mg/kg	6.80	--	1
C11-C22 Aromatics	48.6		mg/kg	6.80	--	1
C11-C22 Aromatics, Adjusted	35.7		mg/kg	6.80	--	1
Naphthalene	ND		mg/kg	0.340	--	1
2-Methylnaphthalene	ND		mg/kg	0.340	--	1
Acenaphthylene	ND		mg/kg	0.340	--	1
Acenaphthene	ND		mg/kg	0.340	--	1
Fluorene	ND		mg/kg	0.340	--	1
Phenanthrene	0.759		mg/kg	0.340	--	1
Anthracene	ND		mg/kg	0.340	--	1
Fluoranthene	1.98		mg/kg	0.340	--	1
Pyrene	1.82		mg/kg	0.340	--	1
Benzo(a)anthracene	1.38		mg/kg	0.340	--	1
Chrysene	1.38		mg/kg	0.340	--	1
Benzo(b)fluoranthene	1.29		mg/kg	0.340	--	1
Benzo(k)fluoranthene	1.34		mg/kg	0.340	--	1
Benzo(a)pyrene	1.52		mg/kg	0.340	--	1
Indeno(1,2,3-cd)Pyrene	1.06		mg/kg	0.340	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.340	--	1
Benzo(ghi)perylene	0.982		mg/kg	0.340	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
 Client ID: SB-4 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	57		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	67		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
 Client ID: SB-1 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 09:34
 Analyst: MEO
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	13.8	--	2
C19-C36 Aliphatics	113		mg/kg	13.8	--	2
C11-C22 Aromatics	284		mg/kg	13.8	--	2
C11-C22 Aromatics, Adjusted	207		mg/kg	13.8	--	2
Naphthalene	ND		mg/kg	0.690	--	2
2-Methylnaphthalene	ND		mg/kg	0.690	--	2
Acenaphthylene	ND		mg/kg	0.690	--	2
Acenaphthene	1.31		mg/kg	0.690	--	2
Fluorene	1.10		mg/kg	0.690	--	2
Phenanthrene	12.3		mg/kg	0.690	--	2
Anthracene	2.75		mg/kg	0.690	--	2
Fluoranthene	14.6		mg/kg	0.690	--	2
Pyrene	12.6		mg/kg	0.690	--	2
Benzo(a)anthracene	6.30		mg/kg	0.690	--	2
Chrysene	6.78		mg/kg	0.690	--	2
Benzo(b)fluoranthene	4.96		mg/kg	0.690	--	2
Benzo(k)fluoranthene	5.25		mg/kg	0.690	--	2
Benzo(a)pyrene	5.73		mg/kg	0.690	--	2
Indeno(1,2,3-cd)Pyrene	3.58		mg/kg	0.690	--	2
Dibenzo(a,h)anthracene	1.11		mg/kg	0.690	--	2
Benzo(ghi)perylene	3.06		mg/kg	0.690	--	2

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139 D
 Client ID: SB-1 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/16/19 15:59
 Analyst: MEO
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	71.7	--	10
C19-C36 Aliphatics	ND		mg/kg	71.7	--	10
C11-C22 Aromatics	460		mg/kg	71.7	--	10
C11-C22 Aromatics, Adjusted	271		mg/kg	71.7	--	10
Naphthalene	ND		mg/kg	3.58	--	10
2-Methylnaphthalene	ND		mg/kg	3.58	--	10
Acenaphthylene	ND		mg/kg	3.58	--	10
Acenaphthene	ND		mg/kg	3.58	--	10
Fluorene	ND		mg/kg	3.58	--	10
Phenanthrene	40.9		mg/kg	3.58	--	10
Anthracene	7.37		mg/kg	3.58	--	10
Fluoranthene	37.2		mg/kg	3.58	--	10
Pyrene	28.6		mg/kg	3.58	--	10
Benzo(a)anthracene	14.2		mg/kg	3.58	--	10
Chrysene	13.8		mg/kg	3.58	--	10
Benzo(b)fluoranthene	10.5		mg/kg	3.58	--	10
Benzo(k)fluoranthene	11.5		mg/kg	3.58	--	10
Benzo(a)pyrene	11.9		mg/kg	3.58	--	10
Indeno(1,2,3-cd)Pyrene	7.27		mg/kg	3.58	--	10
Dibenzo(a,h)anthracene	ND		mg/kg	3.58	--	10
Benzo(ghi)perylene	6.20		mg/kg	3.58	--	10

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139 D

Date Collected: 09/05/19 13:39

Client ID: SB-1 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	67		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
 Client ID: SB-DUP-1
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 12:46
 Analyst: MEO
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	13.9	--	2
C19-C36 Aliphatics	199		mg/kg	13.9	--	2
C11-C22 Aromatics	457		mg/kg	13.9	--	2
C11-C22 Aromatics, Adjusted	315		mg/kg	13.9	--	2
Naphthalene	0.19		mg/kg	0.696	--	2
2-Methylnaphthalene	ND		mg/kg	0.696	--	2
Acenaphthylene	ND		mg/kg	0.696	--	2
Acenaphthene	1.97		mg/kg	0.696	--	2
Fluorene	1.76		mg/kg	0.696	--	2
Phenanthrene	21.4		mg/kg	0.696	--	2
Anthracene	4.66		mg/kg	0.696	--	2
Fluoranthene	25.9		mg/kg	0.696	--	2
Pyrene	21.8		mg/kg	0.696	--	2
Benzo(a)anthracene	10.2		mg/kg	0.696	--	2
Chrysene	11.8		mg/kg	0.696	--	2
Benzo(b)fluoranthene	8.91		mg/kg	0.696	--	2
Benzo(k)fluoranthene	8.80		mg/kg	0.696	--	2
Benzo(a)pyrene	9.72		mg/kg	0.696	--	2
Indeno(1,2,3-cd)Pyrene	6.32		mg/kg	0.696	--	2
Dibenzo(a,h)anthracene	1.84		mg/kg	0.696	--	2
Benzo(ghi)perylene	5.53		mg/kg	0.696	--	2

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
 Client ID: SB-DUP-1
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	84		40-140
2-Fluorobiphenyl	91		40-140
2-Bromonaphthalene	90		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
 Client ID: SB-1 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 20:54
 Analyst: SR
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.22	--	1
C19-C36 Aliphatics	98.5		mg/kg	8.22	--	1
C11-C22 Aromatics	79.3		mg/kg	8.22	--	1
C11-C22 Aromatics, Adjusted	59.7		mg/kg	8.22	--	1
Naphthalene	ND		mg/kg	0.411	--	1
2-Methylnaphthalene	ND		mg/kg	0.411	--	1
Acenaphthylene	ND		mg/kg	0.411	--	1
Acenaphthene	ND		mg/kg	0.411	--	1
Fluorene	ND		mg/kg	0.411	--	1
Phenanthrene	2.98		mg/kg	0.411	--	1
Anthracene	0.720		mg/kg	0.411	--	1
Fluoranthene	3.67		mg/kg	0.411	--	1
Pyrene	2.97		mg/kg	0.411	--	1
Benzo(a)anthracene	1.68		mg/kg	0.411	--	1
Chrysene	1.80		mg/kg	0.411	--	1
Benzo(b)fluoranthene	1.40		mg/kg	0.411	--	1
Benzo(k)fluoranthene	1.40		mg/kg	0.411	--	1
Benzo(a)pyrene	1.47		mg/kg	0.411	--	1
Indeno(1,2,3-cd)Pyrene	1.06		mg/kg	0.411	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.411	--	1
Benzo(ghi)perylene	0.901		mg/kg	0.411	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
 Client ID: SB-1 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	40		40-140
o-Terphenyl	57		40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	76		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 05:46
 Analyst: MEO
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.54	--	1
C19-C36 Aliphatics	18.1		mg/kg	8.54	--	1
C11-C22 Aromatics	21.9		mg/kg	8.54	--	1
C11-C22 Aromatics, Adjusted	21.9		mg/kg	8.54	--	1
Naphthalene	ND		mg/kg	0.427	--	1
2-Methylnaphthalene	ND		mg/kg	0.427	--	1
Acenaphthylene	ND		mg/kg	0.427	--	1
Acenaphthene	ND		mg/kg	0.427	--	1
Fluorene	ND		mg/kg	0.427	--	1
Phenanthrene	ND		mg/kg	0.427	--	1
Anthracene	ND		mg/kg	0.427	--	1
Fluoranthene	ND		mg/kg	0.427	--	1
Pyrene	ND		mg/kg	0.427	--	1
Benzo(a)anthracene	ND		mg/kg	0.427	--	1
Chrysene	ND		mg/kg	0.427	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.427	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.427	--	1
Benzo(a)pyrene	ND		mg/kg	0.427	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.427	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.427	--	1
Benzo(ghi)perylene	ND		mg/kg	0.427	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	65		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
 Client ID: SB-3 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 11:29
 Analyst: MEO
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	13.8	--	2
C19-C36 Aliphatics	90.0		mg/kg	13.8	--	2
C11-C22 Aromatics	149		mg/kg	13.8	--	2
C11-C22 Aromatics, Adjusted	130		mg/kg	13.8	--	2
Naphthalene	ND		mg/kg	0.689	--	2
2-Methylnaphthalene	ND		mg/kg	0.689	--	2
Acenaphthylene	ND		mg/kg	0.689	--	2
Acenaphthene	ND		mg/kg	0.689	--	2
Fluorene	ND		mg/kg	0.689	--	2
Phenanthrene	1.97		mg/kg	0.689	--	2
Anthracene	ND		mg/kg	0.689	--	2
Fluoranthene	3.15		mg/kg	0.689	--	2
Pyrene	2.77		mg/kg	0.689	--	2
Benzo(a)anthracene	1.54		mg/kg	0.689	--	2
Chrysene	1.80		mg/kg	0.689	--	2
Benzo(b)fluoranthene	1.54		mg/kg	0.689	--	2
Benzo(k)fluoranthene	1.62		mg/kg	0.689	--	2
Benzo(a)pyrene	1.65		mg/kg	0.689	--	2
Indeno(1,2,3-cd)Pyrene	1.17		mg/kg	0.689	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.689	--	2
Benzo(ghi)perylene	1.01		mg/kg	0.689	--	2

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
 Client ID: SB-3 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18
Client ID: SB-3 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 98,EPH-04-1.1
Analytical Date: 09/14/19 08:18
Analyst: MEO
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 09/11/19 00:54
Cleanup Method1: EPH-04-1
Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
Sample Temperature upon receipt: Received on Ice
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	14.0	--	2
C19-C36 Aliphatics	50.9		mg/kg	14.0	--	2
C11-C22 Aromatics	195		mg/kg	14.0	--	2
C11-C22 Aromatics, Adjusted	137		mg/kg	14.0	--	2
Naphthalene	ND		mg/kg	0.699	--	2
2-Methylnaphthalene	ND		mg/kg	0.699	--	2
Acenaphthylene	ND		mg/kg	0.699	--	2
Acenaphthene	0.973		mg/kg	0.699	--	2
Fluorene	0.752		mg/kg	0.699	--	2
Phenanthrene	7.18		mg/kg	0.699	--	2
Anthracene	1.77		mg/kg	0.699	--	2
Fluoranthene	10.3		mg/kg	0.699	--	2
Pyrene	8.53		mg/kg	0.699	--	2
Benzo(a)anthracene	4.62		mg/kg	0.699	--	2
Chrysene	4.72		mg/kg	0.699	--	2
Benzo(b)fluoranthene	4.07		mg/kg	0.699	--	2
Benzo(k)fluoranthene	3.89		mg/kg	0.699	--	2
Benzo(a)pyrene	4.45		mg/kg	0.699	--	2
Indeno(1,2,3-cd)Pyrene	3.14		mg/kg	0.699	--	2
Dibenzo(a,h)anthracene	0.818		mg/kg	0.699	--	2
Benzo(ghi)perylene	2.82		mg/kg	0.699	--	2

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18
Client ID: SB-3 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	71		40-140
2-Bromonaphthalene	71		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
 Client ID: SB-3 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 10:12
 Analyst: MEO
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	15.8	--	2
C19-C36 Aliphatics	215		mg/kg	15.8	--	2
C11-C22 Aromatics	164		mg/kg	15.8	--	2
C11-C22 Aromatics, Adjusted	147		mg/kg	15.8	--	2
Naphthalene	ND		mg/kg	0.788	--	2
2-Methylnaphthalene	ND		mg/kg	0.788	--	2
Acenaphthylene	ND		mg/kg	0.788	--	2
Acenaphthene	ND		mg/kg	0.788	--	2
Fluorene	ND		mg/kg	0.788	--	2
Phenanthrene	2.01		mg/kg	0.788	--	2
Anthracene	ND		mg/kg	0.788	--	2
Fluoranthene	2.78		mg/kg	0.788	--	2
Pyrene	2.46		mg/kg	0.788	--	2
Benzo(a)anthracene	1.33		mg/kg	0.788	--	2
Chrysene	1.55		mg/kg	0.788	--	2
Benzo(b)fluoranthene	1.30		mg/kg	0.788	--	2
Benzo(k)fluoranthene	1.44		mg/kg	0.788	--	2
Benzo(a)pyrene	1.39		mg/kg	0.788	--	2
Indeno(1,2,3-cd)Pyrene	1.05		mg/kg	0.788	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.788	--	2
Benzo(ghi)perylene	0.935		mg/kg	0.788	--	2

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
 Client ID: SB-3 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	68		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 98,EPH-04-1.1
Analytical Date: 09/14/19 13:25
Analyst: MEO
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 09/11/19 00:54
Cleanup Method1: EPH-04-1
Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
Sample Temperature upon receipt: Received on Ice
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	14.6	--	2
C19-C36 Aliphatics	418		mg/kg	14.6	--	2
C11-C22 Aromatics	305		mg/kg	14.6	--	2
C11-C22 Aromatics, Adjusted	265		mg/kg	14.6	--	2
Naphthalene	ND		mg/kg	0.728	--	2
2-Methylnaphthalene	ND		mg/kg	0.728	--	2
Acenaphthylene	ND		mg/kg	0.728	--	2
Acenaphthene	ND		mg/kg	0.728	--	2
Fluorene	ND		mg/kg	0.728	--	2
Phenanthrene	5.13		mg/kg	0.728	--	2
Anthracene	1.24		mg/kg	0.728	--	2
Fluoranthene	7.38		mg/kg	0.728	--	2
Pyrene	6.52		mg/kg	0.728	--	2
Benzo(a)anthracene	3.49		mg/kg	0.728	--	2
Chrysene	3.46		mg/kg	0.728	--	2
Benzo(b)fluoranthene	2.96		mg/kg	0.728	--	2
Benzo(k)fluoranthene	2.89		mg/kg	0.728	--	2
Benzo(a)pyrene	3.21		mg/kg	0.728	--	2
Indeno(1,2,3-cd)Pyrene	2.11		mg/kg	0.728	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.728	--	2
Benzo(ghi)perylene	1.83		mg/kg	0.728	--	2

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	62		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	67		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
 Client ID: SB-2 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 04:30
 Analyst: MEO
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.07	--	1
C19-C36 Aliphatics	17.0		mg/kg	7.07	--	1
C11-C22 Aromatics	162		mg/kg	7.07	--	1
C11-C22 Aromatics, Adjusted	107		mg/kg	7.07	--	1
Naphthalene	ND		mg/kg	0.353	--	1
2-Methylnaphthalene	ND		mg/kg	0.353	--	1
Acenaphthylene	ND		mg/kg	0.353	--	1
Acenaphthene	0.930		mg/kg	0.353	--	1
Fluorene	0.689		mg/kg	0.353	--	1
Phenanthrene	7.08		mg/kg	0.353	--	1
Anthracene	1.44		mg/kg	0.353	--	1
Fluoranthene	10.3		mg/kg	0.353	--	1
Pyrene	8.71		mg/kg	0.353	--	1
Benzo(a)anthracene	5.54		mg/kg	0.353	--	1
Chrysene	5.61		mg/kg	0.353	--	1
Benzo(b)fluoranthene	4.36		mg/kg	0.353	--	1
Benzo(k)fluoranthene	4.34		mg/kg	0.353	--	1
Benzo(a)pyrene	4.63		mg/kg	0.353	--	1
Indeno(1,2,3-cd)Pyrene	2.77		mg/kg	0.353	--	1
Dibenzo(a,h)anthracene	0.775		mg/kg	0.353	--	1
Benzo(ghi)perylene	2.30		mg/kg	0.353	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
 Client ID: SB-2 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	49		40-140
o-Terphenyl	46		40-140
2-Fluorobiphenyl	66		40-140
2-Bromonaphthalene	66		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27 D
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 03:19
 Analyst: MEO
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	319	--	40
C19-C36 Aliphatics	56800		mg/kg	319	--	40
C11-C22 Aromatics	1200		mg/kg	319	--	40
C11-C22 Aromatics, Adjusted	112		mg/kg	319	--	40
Naphthalene	ND		mg/kg	15.9	--	40
2-Methylnaphthalene	ND		mg/kg	15.9	--	40
Acenaphthylene	ND		mg/kg	15.9	--	40
Acenaphthene	ND		mg/kg	15.9	--	40
Fluorene	ND		mg/kg	15.9	--	40
Phenanthrene	24.0		mg/kg	15.9	--	40
Anthracene	ND		mg/kg	15.9	--	40
Fluoranthene	25.2		mg/kg	15.9	--	40
Pyrene	22.3		mg/kg	15.9	--	40
Benzo(a)anthracene	ND		mg/kg	15.9	--	40
Chrysene	ND		mg/kg	15.9	--	40
Benzo(b)fluoranthene	ND		mg/kg	15.9	--	40
Benzo(k)fluoranthene	ND		mg/kg	15.9	--	40
Benzo(a)pyrene	ND		mg/kg	15.9	--	40
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	15.9	--	40
Dibenzo(a,h)anthracene	ND		mg/kg	15.9	--	40
Benzo(ghi)perylene	ND		mg/kg	15.9	--	40

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27 D
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	85		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 D
 Client ID: D-07 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 03:51
 Analyst: MEO
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	141	--	20
C19-C36 Aliphatics	240		mg/kg	141	--	20
C11-C22 Aromatics	2140		mg/kg	141	--	20
C11-C22 Aromatics, Adjusted	133		mg/kg	141	--	20
Naphthalene	ND		mg/kg	7.07	--	20
2-Methylnaphthalene	ND		mg/kg	7.07	--	20
Acenaphthylene	ND		mg/kg	7.07	--	20
Acenaphthene	10.2		mg/kg	7.07	--	20
Fluorene	12.2		mg/kg	7.07	--	20
Phenanthrene	110		mg/kg	7.07	--	20
Anthracene	29.5		mg/kg	7.07	--	20
Fluoranthene	130		mg/kg	7.07	--	20
Pyrene	107		mg/kg	7.07	--	20
Benzo(a)anthracene	64.9		mg/kg	7.07	--	20
Chrysene	71.8		mg/kg	7.07	--	20
Benzo(b)fluoranthene	58.0		mg/kg	7.07	--	20
Benzo(k)fluoranthene	48.8		mg/kg	7.07	--	20
Benzo(a)pyrene	64.4		mg/kg	7.07	--	20
Indeno(1,2,3-cd)Pyrene	49.3		mg/kg	7.07	--	20
Dibenzo(a,h)anthracene	12.9		mg/kg	7.07	--	20
Benzo(ghi)perylene	44.4		mg/kg	7.07	--	20

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 D

Date Collected: 09/04/19 12:16

Client ID: D-07 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	86		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
 Client ID: D-07 (7-9)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 18:13
 Analyst: SR
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.58	--	1
C19-C36 Aliphatics	18.5		mg/kg	8.58	--	1
C11-C22 Aromatics	73.4		mg/kg	8.58	--	1
C11-C22 Aromatics, Adjusted	51.7		mg/kg	8.58	--	1
Naphthalene	ND		mg/kg	0.429	--	1
2-Methylnaphthalene	ND		mg/kg	0.429	--	1
Acenaphthylene	ND		mg/kg	0.429	--	1
Acenaphthene	1.66		mg/kg	0.429	--	1
Fluorene	ND		mg/kg	0.429	--	1
Phenanthrene	2.46		mg/kg	0.429	--	1
Anthracene	0.843		mg/kg	0.429	--	1
Fluoranthene	3.73		mg/kg	0.429	--	1
Pyrene	3.03		mg/kg	0.429	--	1
Benzo(a)anthracene	1.60		mg/kg	0.429	--	1
Chrysene	1.87		mg/kg	0.429	--	1
Benzo(b)fluoranthene	1.34		mg/kg	0.429	--	1
Benzo(k)fluoranthene	1.40		mg/kg	0.429	--	1
Benzo(a)pyrene	1.60		mg/kg	0.429	--	1
Indeno(1,2,3-cd)Pyrene	1.10		mg/kg	0.429	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.429	--	1
Benzo(ghi)perylene	1.04		mg/kg	0.429	--	1

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
 Client ID: D-07 (7-9)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	76		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	81		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50 D
 Client ID: SB-DUP-5
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 01:10
 Analyst: MEO
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	43.6	--	6
C19-C36 Aliphatics	223		mg/kg	43.6	--	6
C11-C22 Aromatics	1160		mg/kg	43.6	--	6
C11-C22 Aromatics, Adjusted	712		mg/kg	43.6	--	6
Naphthalene	2.63		mg/kg	2.18	--	6
2-Methylnaphthalene	ND		mg/kg	2.18	--	6
Acenaphthylene	ND		mg/kg	2.18	--	6
Acenaphthene	5.69		mg/kg	2.18	--	6
Fluorene	6.74		mg/kg	2.18	--	6
Phenanthrene	61.8		mg/kg	2.18	--	6
Anthracene	15.7		mg/kg	2.18	--	6
Fluoranthene	79.0		mg/kg	2.18	--	6
Pyrene	66.4		mg/kg	2.18	--	6
Benzo(a)anthracene	37.2		mg/kg	2.18	--	6
Chrysene	38.3		mg/kg	2.18	--	6
Benzo(b)fluoranthene	30.8		mg/kg	2.18	--	6
Benzo(k)fluoranthene	27.4		mg/kg	2.18	--	6
Benzo(a)pyrene	31.6		mg/kg	2.18	--	6
Indeno(1,2,3-cd)Pyrene	21.3		mg/kg	2.18	--	6
Dibenzo(a,h)anthracene	6.06		mg/kg	2.18	--	6
Benzo(ghi)perylene	17.6		mg/kg	2.18	--	6

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50 D
Client ID: SB-DUP-5
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	74		40-140
o-Terphenyl	250	Q	40-140
2-Fluorobiphenyl	81		40-140
2-Bromonaphthalene	81		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55 D
 Client ID: E-06 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 01:42
 Analyst: MEO
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	35.0	--	5
C19-C36 Aliphatics	236		mg/kg	35.0	--	5
C11-C22 Aromatics	385		mg/kg	35.0	--	5
C11-C22 Aromatics, Adjusted	277		mg/kg	35.0	--	5
Naphthalene	ND		mg/kg	1.75	--	5
2-Methylnaphthalene	ND		mg/kg	1.75	--	5
Acenaphthylene	ND		mg/kg	1.75	--	5
Acenaphthene	ND		mg/kg	1.75	--	5
Fluorene	ND		mg/kg	1.75	--	5
Phenanthrene	12.0		mg/kg	1.75	--	5
Anthracene	3.43		mg/kg	1.75	--	5
Fluoranthene	19.5		mg/kg	1.75	--	5
Pyrene	17.1		mg/kg	1.75	--	5
Benzo(a)anthracene	9.22		mg/kg	1.75	--	5
Chrysene	10.4		mg/kg	1.75	--	5
Benzo(b)fluoranthene	8.87		mg/kg	1.75	--	5
Benzo(k)fluoranthene	7.56		mg/kg	1.75	--	5
Benzo(a)pyrene	9.54		mg/kg	1.75	--	5
Indeno(1,2,3-cd)Pyrene	7.12		mg/kg	1.75	--	5
Dibenzo(a,h)anthracene	1.88		mg/kg	1.75	--	5
Benzo(ghi)perylene	5.94		mg/kg	1.75	--	5

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55 D
 Client ID: E-06 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	47		40-140
o-Terphenyl	111		40-140
2-Fluorobiphenyl	79		40-140
2-Bromonaphthalene	80		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56 D
 Client ID: E-06 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 02:14
 Analyst: MEO
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	161	--	20
C19-C36 Aliphatics	303		mg/kg	161	--	20
C11-C22 Aromatics	1500		mg/kg	161	--	20
C11-C22 Aromatics, Adjusted	857		mg/kg	161	--	20
Naphthalene	9		mg/kg	8.06	--	20
2-Methylnaphthalene	ND		mg/kg	8.06	--	20
Acenaphthylene	ND		mg/kg	8.06	--	20
Acenaphthene	13.7		mg/kg	8.06	--	20
Fluorene	24.1		mg/kg	8.06	--	20
Phenanthrene	145		mg/kg	8.06	--	20
Anthracene	40.6		mg/kg	8.06	--	20
Fluoranthene	125		mg/kg	8.06	--	20
Pyrene	94.0		mg/kg	8.06	--	20
Benzo(a)anthracene	46.4		mg/kg	8.06	--	20
Chrysene	42.9		mg/kg	8.06	--	20
Benzo(b)fluoranthene	25.0		mg/kg	8.06	--	20
Benzo(k)fluoranthene	28.2		mg/kg	8.06	--	20
Benzo(a)pyrene	28.4		mg/kg	8.06	--	20
Indeno(1,2,3-cd)Pyrene	13.8		mg/kg	8.06	--	20
Dibenzo(a,h)anthracene	ND		mg/kg	8.06	--	20
Benzo(ghi)perylene	10.2		mg/kg	8.06	--	20

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56 D
 Client ID: E-06 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	73		40-140
2-Bromonaphthalene	74		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 02:37
 Analyst: MEO

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method: EPH-04-1
 Cleanup Date: 09/11/19

Parameter	Result	Qualifier	Units	L	MJL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 11-12,15,17-18,21,23-24,27,44,101,105,113,115,138-140 Batch: WG1282535-1					
C9-C18 Aliphatics	ND		mg/kg	6.50	--
C19-C36 Aliphatics	ND		mg/kg	6.50	--
C11-C22 Aromatics	ND		mg/kg	6.50	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.50	--
Naphthalene	ND		mg/kg	0.325	--
2-Methylnaphthalene	ND		mg/kg	0.325	--
Acenaphthylene	ND		mg/kg	0.325	--
Acenaphthene	ND		mg/kg	0.325	--
Fluorene	ND		mg/kg	0.325	--
Phenanthrene	ND		mg/kg	0.325	--
Anthracene	ND		mg/kg	0.325	--
Fluoranthene	ND		mg/kg	0.325	--
Pyrene	ND		mg/kg	0.325	--
Benzo(a)anthracene	ND		mg/kg	0.325	--
Chrysene	ND		mg/kg	0.325	--
Benzo(b)fluoranthene	ND		mg/kg	0.325	--
Benzo(k)fluoranthene	ND		mg/kg	0.325	--
Benzo(a)pyrene	ND		mg/kg	0.325	--
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.325	--
Benzo(e)anthracene	ND		mg/kg	0.325	--
Benzo(ghi)perylene	ND		mg/kg	0.325	--

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 02:37
 Analyst: MEO

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method: EPH-04-1
 Cleanup Date: 09/11/19

Parameter	Result	Qualifier	Units	L	MJL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 11-12,15,17-18,21,23-24,27,44,101,105,113,115,138-140 Batch: WG1282535-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	69		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 13:22
 Analyst: SR

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method: EPH-04-1
 Cleanup Date: 09/13/19

Parameter	Result	Qualifier	Units	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 45, 50, 55, 56, 143 Batch: WG1283558-1				
C9-C18 Aliphatics	ND		mg/kg	6.43
C19-C36 Aliphatics	ND		mg/kg	6.43
C11-C22 Aromatics	ND		mg/kg	6.43
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.43
Naphthalene	ND		mg/kg	0.322
2-Methylnaphthalene	ND		mg/kg	0.322
Acenaphthylene	ND		mg/kg	0.322
Acenaphthene	ND		mg/kg	0.322
Fluorene	ND		mg/kg	0.322
Phenanthrene	ND		mg/kg	0.322
Anthracene	ND		mg/kg	0.322
Fluoranthene	ND		mg/kg	0.322
Pyrene	ND		mg/kg	0.322
Benzo(a)anthracene	ND		mg/kg	0.322
Chrysene	ND		mg/kg	0.322
Benzo(b)fluoranthene	ND		mg/kg	0.322
Benzo(k)fluoranthene	ND		mg/kg	0.322
Benzo(a)pyrene	ND		mg/kg	0.322
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.322
Benzo(e)anthracene	ND		mg/kg	0.322
Benzo(ghi)perylene	ND		mg/kg	0.322

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 13:22
 Analyst: SR

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method: EPH-04-1
 Cleanup Date: 09/13/19

Parameter	Result	Qualifier	Units	L	MJL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 45, 50, 55, 56, 143 Batch: WG1283558-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	79		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	83		40-140

NOT APPLICABLE



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44,100,105,113,115,138-140 Batch: WG1282535-2 WG1282535-3								
C9-C18 Aliphatics	56		68		40-140	19		25
C19-C36 Aliphatics	64		79		40-140	21		25
C11-C22 Aromatics	54		58		40-140	7		25
Naphthalene	45		48		40-140	6		25
2-Methylnaphthalene	44		47		40-140	7		25
Acenaphthylene	47		51		40-140	8		25
Acenaphthene	51		56		40-140	9		25
Fluorene	49		55		40-140	12		25
Phenanthrene	54		60		40-140	11		25
Anthracene	54		59		40-140	9		25
Fluoranthene	54		58		40-140	7		25
Pyrene	56		60		40-140	7		25
Benzo(a)anthracene	54		58		40-140	7		25
Chrysene	55		58		40-140	5		25
Benzo(b)fluoranthene	53		57		40-140	7		25
Benzo(k)fluoranthene	53		56		40-140	6		25
Benzo(a)pyrene	53		55		40-140	6		25
Indeno(1,2,3-cd)Pyrene	50		52		40-140	4		25
Dibenzo(a,h)anthracene	51		52		40-140	2		25
Benzo(ghi)perylene	47		48		40-140	2		25
Nonane (C9)	44		54		30-140	20		25
Decane (C10)	49		59		40-140	19		25

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44,100,105,113,115,138-140 Batch: WG1282535-2 WG1282535-3								
Dodecane (C12)	50		60		40-140	18		25
Tetradecane (C14)	50		62		40-140	21		25
Hexadecane (C16)	53		68		40-140	25		25
Octadecane (C18)	57		71		40-140	22		25
Nonadecane (C19)	57		71		40-140	22		25
Eicosane (C20)	59		72		40-140	20		25
Docosane (C22)	60		73		40-140	20		25
Tetracosane (C24)	61		74		40-140	19		25
Hexacosane (C26)	62		77		40-140	22		25
Octacosane (C28)	64		78		40-140	20		25
Triacosane (C30)	65		80		40-140	21		25
Hexatriacontane (C36)	66		79		40-140	18		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	57		68		40-140
o-Terphenyl	52		57		40-140
2-Fluorobiphenyl	73		66		40-140
2-Bromonaphthalene	72		66		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 45,50,55-56,143 Batch: WG1283558-2 WG1283558-3								
C9-C18 Aliphatics	57		75		40-140	27	Q	25
C19-C36 Aliphatics	70		79		40-140	12		25
C11-C22 Aromatics	77		91		40-140	17		25
Naphthalene	54		72		40-140	29	Q	25
2-Methylnaphthalene	55		73		40-140	28	Q	25
Acenaphthylene	62		81		40-140	27	Q	25
Acenaphthene	63		81		40-140	27	Q	25
Fluorene	69		86		40-140	22		25
Phenanthrene	76		89		40-140	16		25
Anthracene	79		92		40-140	15		25
Fluoranthene	80		92		40-140	14		25
Pyrene	82		94		40-140	14		25
Benzo(a)anthracene	81		92		40-140	13		25
Chrysene	83		91		40-140	9		25
Benzo(b)fluoranthene	82		94		40-140	14		25
Benzo(k)fluoranthene	82		91		40-140	10		25
Benzo(a)pyrene	80		90		40-140	12		25
Indeno(1,2,3-cd)Pyrene	80		92		40-140	14		25
Dibenzo(a,h)anthracene			91		40-140	9		25
Benzo(ghi)perylene	76		85		40-140	11		25
Nonane (C9)	45		63		30-140	33	Q	25
Decane (C10)	50		68		40-140	31	Q	25
Dodecane (C12)	49		67		40-140	31	Q	25

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 45,50,55-56,143 Batch: WG1283558-2 WG1283558-3								
Tetradecane (C14)	51		69		40-140	30	Q	25
Hexadecane (C16)	58		73		40-140	23		25
Octadecane (C18)	66		77		40-140	15		25
Nonadecane (C19)	65		75		40-140	14		25
Eicosane (C20)	67		77		40-140	14		25
Docosane (C22)	68		78		40-140	14		25
Tetracosane (C24)	67		77		40-140	14		25
Hexacosane (C26)	68		77		40-140	12		25
Octacosane (C28)	68		77		40-140	12		25
Triacontane (C30)	69		77		40-140	11		25
Hexatriacontane (C36)	72		81		40-140	12		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Chloro-Octadecane	59		67		40-140
o-Terphenyl	72		83		40-140
2-Fluorobiphenyl	74		81		40-140
2-Bromonaphthalene	74		82		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

PCBS

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-01
Client ID: AS-5
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:20
Analyst: AWS
Percent Solids: 100%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.8	--	1	A
Aroclor 1221	ND		ug/kg	54.8	--	1	A
Aroclor 1232	ND		ug/kg	54.8	--	1	A
Aroclor 1242	ND		ug/kg	54.8	--	1	A
Aroclor 1248	ND		ug/kg	36.6	--	1	A
Aroclor 1254	ND		ug/kg	54.8	--	1	A
Aroclor 1260	38.4		ug/kg	36.6	--	1	B
Aroclor 1262	ND		ug/kg	18.3	--	1	A
Aroclor 1268	ND		ug/kg	18.3	--	1	A
PCBs, Total	38.4		ug/kg	18.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	54		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-02 **D**
Client ID: AS-6
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:15
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/14/19 00:29
Analyst: AWS
Percent Solids: 100%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	590	--	10	A
Aroclor 1221	ND		ug/kg	590	--	10	A
Aroclor 1232	ND		ug/kg	590	--	10	A
Aroclor 1242	ND		ug/kg	590	--	10	A
Aroclor 1248	ND		ug/kg	394	--	10	A
Aroclor 1254	ND		ug/kg	590	--	10	A
Aroclor 1260	7100		ug/kg	394	--	10	B
Aroclor 1262	ND		ug/kg	197	--	10	A
Aroclor 1268	ND		ug/kg	197	--	10	A
PCBs, Total	7100		ug/kg	197	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-03
Client ID: AS-7
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:20
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:32
Analyst: AWS
Percent Solids: 99%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.7	--	1	A
Aroclor 1221	ND		ug/kg	54.7	--	1	A
Aroclor 1232	ND		ug/kg	54.7	--	1	A
Aroclor 1242	ND		ug/kg	54.7	--	1	A
Aroclor 1248	ND		ug/kg	36.5	--	1	B
Aroclor 1254	ND		ug/kg	54.7	--	1	A
Aroclor 1260	ND		ug/kg	36.5	--	1	B
Aroclor 1262	ND		ug/kg	18.2	--	1	A
Aroclor 1268	ND		ug/kg	18.2	--	1	A
PCBs, Total	ND		ug/kg	18.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	59		30-150	A

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-04
Client ID: AS-8
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:25
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:43
Analyst: AWS
Percent Solids: 100%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.6	--	1	A
Aroclor 1221	ND		ug/kg	55.6	--	1	A
Aroclor 1232	ND		ug/kg	55.6	--	1	A
Aroclor 1242	ND		ug/kg	55.6	--	1	A
Aroclor 1248	ND		ug/kg	37.0	--	1	A
Aroclor 1254	ND		ug/kg	55.6	--	1	A
Aroclor 1260	ND		ug/kg	37.0	--	1	B
Aroclor 1262	ND		ug/kg	18.5	--	1	A
Aroclor 1268	ND		ug/kg	18.5	--	1	A
PCBs, Total	ND		ug/kg	18.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	51		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-05
 Client ID: AS-1
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:45
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 15:55
 Analyst: AWS
 Percent Solids: 99%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.0	--	1	A
Aroclor 1221	ND		ug/kg	56.0	--	1	A
Aroclor 1232	ND		ug/kg	56.0	--	1	A
Aroclor 1242	ND		ug/kg	56.0	--	1	A
Aroclor 1248	ND		ug/kg	37.3	--	1	A
Aroclor 1254	ND		ug/kg	56.0	--	1	A
Aroclor 1260	986		ug/kg	37.3	--	1	B
Aroclor 1262	ND		ug/kg	18.7	--	1	A
Aroclor 1268	ND		ug/kg	18.7	--	1	A
PCBs, Total	986		ug/kg	18.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	60		30-150	A



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-06
 Client ID: AS-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:07
 Analyst: AWS
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.5	--	1	A
Aroclor 1221	ND		ug/kg	51.5	--	1	A
Aroclor 1232	ND		ug/kg	51.5	--	1	A
Aroclor 1242	ND		ug/kg	51.5	--	1	A
Aroclor 1248	ND		ug/kg	34.3	--	1	A
Aroclor 1254	ND		ug/kg	51.5	--	1	A
Aroclor 1260	508		ug/kg	34.3	--	1	B
Aroclor 1262	ND		ug/kg	17.2	--	1	A
Aroclor 1268	ND		ug/kg	17.2	--	1	A
PCBs, Total	508		ug/kg	17.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	48		30-150	A



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-07
 Client ID: AS-3
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:55
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:19
 Analyst: AWS
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.2	--	1	A
Aroclor 1221	ND		ug/kg	57.2	--	1	A
Aroclor 1232	ND		ug/kg	57.2	--	1	A
Aroclor 1242	ND		ug/kg	57.2	--	1	A
Aroclor 1248	ND		ug/kg	38.1	--	1	A
Aroclor 1254	ND		ug/kg	57.2	--	1	A
Aroclor 1260	184		ug/kg	38.1	--	1	B
Aroclor 1262	ND		ug/kg	19.0	--	1	A
Aroclor 1268	ND		ug/kg	19.0	--	1	A
PCBs, Total	184		ug/kg	19.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	47		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	43		30-150	A



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-08
 Client ID: AS-4
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 12:05
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:31
 Analyst: AWS
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.4	--	1	A
Aroclor 1221	ND		ug/kg	51.4	--	1	A
Aroclor 1232	ND		ug/kg	51.4	--	1	A
Aroclor 1242	ND		ug/kg	51.4	--	1	A
Aroclor 1248	ND		ug/kg	34.3	--	1	A
Aroclor 1254	ND		ug/kg	51.4	--	1	A
Aroclor 1260	354		ug/kg	34.3	--	1	B
Aroclor 1262	ND		ug/kg	17.2	--	1	A
Aroclor 1268	ND		ug/kg	17.2	--	1	A
PCBs, Total	354		ug/kg	17.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	56		30-150	A



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-09
 Client ID: AS-DUP-1
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 02:38
 Analyst: WR
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.0	--	1	A
Aroclor 1221	ND		ug/kg	57.0	--	1	A
Aroclor 1232	ND		ug/kg	57.0	--	1	A
Aroclor 1242	ND		ug/kg	57.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	57.0	--	1	A
Aroclor 1260	1610		ug/kg	38.0	--	1	B
Aroclor 1262	ND		ug/kg	19.0	--	1	A
Aroclor 1268	ND		ug/kg	19.0	--	1	A
PCBs, Total	1610		ug/kg	19.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	82		30-150	A



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-10
Client ID: SB-4 (0-0.5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 05:07
Analyst: KB
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	53.3		ug/kg	34.1	--	1	B
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	53.3		ug/kg	34.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	85		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
Client ID: SB-4 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 05:18
Analyst: KB
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	--	1	A
Aroclor 1221	ND		ug/kg	33.8	--	1	A
Aroclor 1232	ND		ug/kg	33.8	--	1	A
Aroclor 1242	ND		ug/kg	33.8	--	1	A
Aroclor 1248	ND		ug/kg	33.8	--	1	A
Aroclor 1254	ND		ug/kg	33.8	--	1	A
Aroclor 1260	ND		ug/kg	33.8	--	1	B
Aroclor 1262	ND		ug/kg	33.8	--	1	A
Aroclor 1268	ND		ug/kg	33.8	--	1	A
PCBs, Total	ND		ug/kg	33.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	87		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
Client ID: SB-4 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 05:30
Analyst: KB
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	ND		ug/kg	34.1	--	1	A
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	ND		ug/kg	34.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	77		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-13
Client ID: SB-4 (3-5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 05:42
Analyst: KB
Percent Solids: 87%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	--	1	A
Aroclor 1221	ND		ug/kg	37.5	--	1	A
Aroclor 1232	ND		ug/kg	37.5	--	1	A
Aroclor 1242	ND		ug/kg	37.5	--	1	A
Aroclor 1248	ND		ug/kg	37.5	--	1	A
Aroclor 1254	ND		ug/kg	37.5	--	1	A
Aroclor 1260	ND		ug/kg	37.5	--	1	A
Aroclor 1262	ND		ug/kg	37.5	--	1	A
Aroclor 1268	ND		ug/kg	37.5	--	1	A
PCBs, Total	ND		ug/kg	37.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	78		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
Client ID: SB-4 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 00:58
Analyst: AWS
Percent Solids: 75%

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	104	--	1	A
Aroclor 1221	ND		ug/kg	104	--	1	A
Aroclor 1232	ND		ug/kg	104	--	1	A
Aroclor 1242	ND		ug/kg	104	--	1	A
Aroclor 1248	ND		ug/kg	104	--	1	A
Aroclor 1254	ND		ug/kg	104	--	1	A
Aroclor 1260	ND		ug/kg	104	--	1	A
Aroclor 1262	ND		ug/kg	104	--	1	A
Aroclor 1268	ND		ug/kg	104	--	1	A
PCBs, Total	ND		ug/kg	104	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	50		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	27	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-16 D
 Client ID: SB-3 (0-0.5)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:20
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/15/19 15:13
 Analyst: AWS
 Percent Solids: 95%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	170	--	5	A
Aroclor 1221	ND		ug/kg	170	--	5	A
Aroclor 1232	ND		ug/kg	170	--	5	A
Aroclor 1242	ND		ug/kg	170	--	5	A
Aroclor 1248	ND		ug/kg	170	--	5	A
Aroclor 1254	444		ug/kg	170	--	5	A
Aroclor 1260	ND		ug/kg	170	--	5	A
Aroclor 1262	ND		ug/kg	170	--	5	A
Aroclor 1268	ND		ug/kg	170	--	5	A
PCBs, Total	444		ug/kg	170	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	55		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
Client ID: SB-3 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 23:31
Analyst: AWS
Percent Solids: 94%

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.0	--	1	A
Aroclor 1221	ND		ug/kg	35.0	--	1	A
Aroclor 1232	ND		ug/kg	35.0	--	1	A
Aroclor 1242	ND		ug/kg	35.0	--	1	A
Aroclor 1248	ND		ug/kg	35.0	--	1	A
Aroclor 1254	72.0		ug/kg	35.0	--	1	B
Aroclor 1260	38.3	IP	ug/kg	35.0	--	1	B
Aroclor 1262	ND		ug/kg	35.0	--	1	A
Aroclor 1268	ND		ug/kg	35.0	--	1	A
PCBs, Total	110		ug/kg	35.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	41		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18
Client ID: SB-3 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 23:44
Analyst: AWS
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	--	1	A
Aroclor 1221	ND		ug/kg	34.4	--	1	A
Aroclor 1232	ND		ug/kg	34.4	--	1	A
Aroclor 1242	ND		ug/kg	34.4	--	1	A
Aroclor 1248	ND		ug/kg	34.4	--	1	A
Aroclor 1254	ND		ug/kg	34.4	--	1	A
Aroclor 1260	ND		ug/kg	34.4	--	1	B
Aroclor 1262	ND		ug/kg	34.4	--	1	A
Aroclor 1268	ND		ug/kg	34.4	--	1	A
PCBs, Total	ND		ug/kg	34.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	39		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-19
Client ID: SB-3 (3-5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:35
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 05:54
Analyst: KB
Percent Solids: 85%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.6	--	1	A
Aroclor 1221	ND		ug/kg	38.6	--	1	A
Aroclor 1232	ND		ug/kg	38.6	--	1	A
Aroclor 1242	ND		ug/kg	38.6	--	1	A
Aroclor 1248	ND		ug/kg	38.6	--	1	A
Aroclor 1254	ND		ug/kg	38.6	--	1	A
Aroclor 1260	89.6		ug/kg	38.6	--	1	B
Aroclor 1262	ND		ug/kg	38.6	--	1	A
Aroclor 1268	ND		ug/kg	38.6	--	1	A
PCBs, Total	89.6		ug/kg	38.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	90		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-22
Client ID: SB-2 (0-0.5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 23:56
Analyst: AWS
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	--	1	A
Aroclor 1221	ND		ug/kg	33.9	--	1	A
Aroclor 1232	ND		ug/kg	33.9	--	1	A
Aroclor 1242	ND		ug/kg	33.9	--	1	A
Aroclor 1248	ND		ug/kg	33.9	--	1	A
Aroclor 1254	40.3		ug/kg	33.9	--	1	A
Aroclor 1260	ND		ug/kg	33.9	--	1	B
Aroclor 1262	ND		ug/kg	33.9	--	1	A
Aroclor 1268	ND		ug/kg	33.9	--	1	A
PCBs, Total	40.3		ug/kg	33.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	56		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	35		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 00:09
Analyst: AWS
Percent Solids: 90%

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.0	--	1	A
Aroclor 1221	ND		ug/kg	35.0	--	1	A
Aroclor 1232	ND		ug/kg	35.0	--	1	A
Aroclor 1242	ND		ug/kg	35.0	--	1	A
Aroclor 1248	ND		ug/kg	35.0	--	1	A
Aroclor 1254	ND		ug/kg	35.0	--	1	A
Aroclor 1260	83.0		ug/kg	35.0	--	1	B
Aroclor 1262	ND		ug/kg	35.0	--	1	A
Aroclor 1268	ND		ug/kg	35.0	--	1	A
PCBs, Total	83.0		ug/kg	35.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	54		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	36		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
Client ID: SB-2 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 00:21
Analyst: AWS
Percent Solids: 89%

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	--	1	A
Aroclor 1221	ND		ug/kg	36.3	--	1	A
Aroclor 1232	ND		ug/kg	36.3	--	1	A
Aroclor 1242	ND		ug/kg	36.3	--	1	A
Aroclor 1248	ND		ug/kg	36.3	--	1	A
Aroclor 1254	ND		ug/kg	36.3	--	1	A
Aroclor 1260	ND		ug/kg	36.3	--	1	B
Aroclor 1262	ND		ug/kg	36.3	--	1	A
Aroclor 1268	ND		ug/kg	36.3	--	1	A
PCBs, Total	ND		ug/kg	36.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-ylene	57		30-150	A
Decachlorobiphenyl	31		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-25
Client ID: SB-2 (3-5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:15
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 00:46
Analyst: AWS
Percent Solids: 86%

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	--	1	A
Aroclor 1221	ND		ug/kg	38.0	--	1	A
Aroclor 1232	ND		ug/kg	38.0	--	1	A
Aroclor 1242	ND		ug/kg	38.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	38.0	--	1	A
Aroclor 1260	ND		ug/kg	38.0	--	1	A
Aroclor 1262	ND		ug/kg	38.0	--	1	A
Aroclor 1268	ND		ug/kg	38.0	--	1	A
PCBs, Total	ND		ug/kg	38.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	33		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-32 D
Client ID: E-08 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 11:25
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/15/19 15:01
Analyst: AWS
Percent Solids: 87%

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	748	--	20	A
Aroclor 1221	ND		ug/kg	748	--	20	A
Aroclor 1232	ND		ug/kg	748	--	20	A
Aroclor 1242	ND		ug/kg	748	--	20	A
Aroclor 1248	782		ug/kg	748	--	20	B
Aroclor 1254	ND		ug/kg	748	--	20	A
Aroclor 1260	6920		ug/kg	748	--	20	B
Aroclor 1262	ND		ug/kg	748	--	20	A
Aroclor 1268	ND		ug/kg	748	--	20	A
PCBs, Total	770		ug/kg	748	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-33
Client ID: E-08 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 11:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 06:06
Analyst: KB
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	--	1	A
Aroclor 1221	ND		ug/kg	35.6	--	1	A
Aroclor 1232	ND		ug/kg	35.6	--	1	A
Aroclor 1242	ND		ug/kg	35.6	--	1	A
Aroclor 1248	ND		ug/kg	35.6	--	1	A
Aroclor 1254	ND		ug/kg	35.6	--	1	A
Aroclor 1260	ND		ug/kg	35.6	--	1	A
Aroclor 1262	ND		ug/kg	35.6	--	1	A
Aroclor 1268	ND		ug/kg	35.6	--	1	A
PCBs, Total	ND		ug/kg	35.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	113		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-40 D
Client ID: D-07 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:12
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 16:50
Analyst: WR
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	3460	--	100	A
Aroclor 1221	ND		ug/kg	3460	--	100	A
Aroclor 1232	ND		ug/kg	3460	--	100	A
Aroclor 1242	ND		ug/kg	3460	--	100	A
Aroclor 1248	11100		ug/kg	3460	--	100	B
Aroclor 1254	6220		ug/kg	3460	--	100	A
Aroclor 1260	ND		ug/kg	3460	--	100	B
Aroclor 1262	ND		ug/kg	3460	--	100	A
Aroclor 1268	ND		ug/kg	3460	--	100	A
PCBs, Total	1730		ug/kg	3460	--	100	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-41
Client ID: D-07 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:14
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 06:29
Analyst: KB
Percent Solids: 92%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	--	1	A
Aroclor 1221	ND		ug/kg	35.7	--	1	A
Aroclor 1232	ND		ug/kg	35.7	--	1	A
Aroclor 1242	ND		ug/kg	35.7	--	1	A
Aroclor 1248	ND		ug/kg	35.7	--	1	A
Aroclor 1254	102		ug/kg	35.7	--	1	B
Aroclor 1260	57.7		ug/kg	35.7	--	1	B
Aroclor 1262	ND		ug/kg	35.7	--	1	A
Aroclor 1268	ND		ug/kg	35.7	--	1	A
PCBs, Total	160		ug/kg	35.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	120		30-150	B
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	76		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
Client ID: D-07 (7-9)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 06:41
Analyst: KB
Percent Solids: 78%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.4	--	1	A
Aroclor 1221	ND		ug/kg	42.4	--	1	A
Aroclor 1232	ND		ug/kg	42.4	--	1	A
Aroclor 1242	ND		ug/kg	42.4	--	1	A
Aroclor 1248	ND		ug/kg	42.4	--	1	A
Aroclor 1254	ND		ug/kg	42.4	--	1	A
Aroclor 1260	ND		ug/kg	42.4	--	1	A
Aroclor 1262	ND		ug/kg	42.4	--	1	A
Aroclor 1268	ND		ug/kg	42.4	--	1	A
PCBs, Total	ND		ug/kg	42.4	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	86		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-51 D
Client ID: E-06 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:22
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 16:38
Analyst: WR
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	337	--	10	A
Aroclor 1221	ND		ug/kg	337	--	10	A
Aroclor 1232	ND		ug/kg	337	--	10	A
Aroclor 1242	ND		ug/kg	337	--	10	A
Aroclor 1248	2950		ug/kg	337	--	10	B
Aroclor 1254	1160		ug/kg	337	--	10	B
Aroclor 1260	475		ug/kg	337	--	10	B
Aroclor 1262	ND		ug/kg	337	--	10	A
Aroclor 1268	ND		ug/kg	337	--	10	A
PCBs, Total	459		ug/kg	337	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-52
Client ID: E-06 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:26
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 07:05
Analyst: KB
Percent Solids: 90%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	--	1	A
Aroclor 1221	ND		ug/kg	36.2	--	1	A
Aroclor 1232	ND		ug/kg	36.2	--	1	A
Aroclor 1242	ND		ug/kg	36.2	--	1	A
Aroclor 1248	192		ug/kg	36.2	--	1	B
Aroclor 1254	ND		ug/kg	36.2	--	1	A
Aroclor 1260	54.4		ug/kg	36.2	--	1	B
Aroclor 1262	ND		ug/kg	36.2	--	1	A
Aroclor 1268	ND		ug/kg	36.2	--	1	A
PCBs, Total	244		ug/kg	36.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	163	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	118		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
Client ID: E-06 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 02:50
Analyst: WR
Percent Solids: 79%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.1	--	1	A
Aroclor 1221	ND		ug/kg	41.1	--	1	A
Aroclor 1232	ND		ug/kg	41.1	--	1	A
Aroclor 1242	ND		ug/kg	41.1	--	1	A
Aroclor 1248	ND		ug/kg	41.1	--	1	B
Aroclor 1254	ND		ug/kg	41.1	--	1	A
Aroclor 1260	ND		ug/kg	41.1	--	1	A
Aroclor 1262	ND		ug/kg	41.1	--	1	A
Aroclor 1268	ND		ug/kg	41.1	--	1	A
PCBs, Total	ND		ug/kg	41.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	103		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-57 D
Client ID: E-05 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:10
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 21:52
Analyst: AWS
Percent Solids: 91%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	712	--	20	A
Aroclor 1221	ND		ug/kg	712	--	20	A
Aroclor 1232	ND		ug/kg	712	--	20	A
Aroclor 1242	ND		ug/kg	712	--	20	A
Aroclor 1248	7870		ug/kg	712	--	20	A
Aroclor 1254	ND		ug/kg	712	--	20	A
Aroclor 1260	1400		ug/kg	712	--	20	B
Aroclor 1262	ND		ug/kg	712	--	20	A
Aroclor 1268	ND		ug/kg	712	--	20	A
PCBs, Total	927		ug/kg	712	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-58
Client ID: E-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:12
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 03:15
Analyst: WR
Percent Solids: 87%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.7	--	1	A
Aroclor 1221	ND		ug/kg	37.7	--	1	A
Aroclor 1232	ND		ug/kg	37.7	--	1	A
Aroclor 1242	ND		ug/kg	37.7	--	1	A
Aroclor 1248	ND		ug/kg	37.7	--	1	B
Aroclor 1254	ND		ug/kg	37.7	--	1	A
Aroclor 1260	ND		ug/kg	37.7	--	1	A
Aroclor 1262	ND		ug/kg	37.7	--	1	A
Aroclor 1268	ND		ug/kg	37.7	--	1	A
PCBs, Total	ND		ug/kg	37.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	82		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-61 D
Client ID: SB-DUP-6
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 22:04
Analyst: AWS
Percent Solids: 91%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	702	--	20	A
Aroclor 1221	ND		ug/kg	702	--	20	A
Aroclor 1232	ND		ug/kg	702	--	20	A
Aroclor 1242	ND		ug/kg	702	--	20	A
Aroclor 1248	4930		ug/kg	702	--	20	B
Aroclor 1254	ND		ug/kg	702	--	20	A
Aroclor 1260	1070		ug/kg	702	--	20	B
Aroclor 1262	ND		ug/kg	702	--	20	A
Aroclor 1268	ND		ug/kg	702	--	20	A
PCBs, Total	600		ug/kg	702	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-66 D
 Client ID: D-09 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 22:16
 Analyst: AWS
 Percent Solids: 88%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	745	--	20	A
Aroclor 1221	ND		ug/kg	745	--	20	A
Aroclor 1232	ND		ug/kg	745	--	20	A
Aroclor 1242	ND		ug/kg	745	--	20	A
Aroclor 1248	ND		ug/kg	745	--	20	A
Aroclor 1254	ND		ug/kg	745	--	20	A
Aroclor 1260	5650		ug/kg	745	--	20	B
Aroclor 1262	ND		ug/kg	745	--	20	A
Aroclor 1268	ND		ug/kg	745	--	20	A
PCBs, Total	5650		ug/kg	745	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-67 D
Client ID: D-09 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:53
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/17/19 16:22
Analyst: AWS
Percent Solids: 75%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	441	--	10	A
Aroclor 1221	ND		ug/kg	441	--	10	A
Aroclor 1232	ND		ug/kg	441	--	10	A
Aroclor 1242	ND		ug/kg	441	--	10	A
Aroclor 1248	ND		ug/kg	441	--	10	A
Aroclor 1254	ND		ug/kg	441	--	10	A
Aroclor 1260	ND		ug/kg	441	--	10	A
Aroclor 1262	ND		ug/kg	441	--	10	A
Aroclor 1268	850		ug/kg	441	--	10	B
PCBs, Total	185		ug/kg	441	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-74
Client ID: B-07 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 15:27
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 04:04
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	--	1	A
Aroclor 1221	ND		ug/kg	36.0	--	1	A
Aroclor 1232	ND		ug/kg	36.0	--	1	A
Aroclor 1242	ND		ug/kg	36.0	--	1	A
Aroclor 1248	45.5		ug/kg	36.0	--	1	B
Aroclor 1254	208		ug/kg	36.0	--	1	B
Aroclor 1260	128		ug/kg	36.0	--	1	B
Aroclor 1262	ND		ug/kg	36.0	--	1	A
Aroclor 1268	ND		ug/kg	36.0	--	1	A
PCBs, Total	38.2		ug/kg	36.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	81		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-75
Client ID: B-07 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 15:29
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 04:16
Analyst: WR
Percent Solids: 83%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.2	--	1	A
Aroclor 1221	ND		ug/kg	38.2	--	1	A
Aroclor 1232	ND		ug/kg	38.2	--	1	A
Aroclor 1242	ND		ug/kg	38.2	--	1	A
Aroclor 1248	ND		ug/kg	38.2	--	1	A
Aroclor 1254	ND		ug/kg	38.2	--	1	A
Aroclor 1260	ND		ug/kg	38.2	--	1	A
Aroclor 1262	ND		ug/kg	38.2	--	1	A
Aroclor 1268	ND		ug/kg	38.2	--	1	B
PCBs, Total	ND		ug/kg	38.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	104		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-86 D
Client ID: C-08 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:08
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 22:40
Analyst: AWS
Percent Solids: 87%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	368	--	10	A
Aroclor 1221	ND		ug/kg	368	--	10	A
Aroclor 1232	ND		ug/kg	368	--	10	A
Aroclor 1242	ND		ug/kg	368	--	10	A
Aroclor 1248	ND		ug/kg	368	--	10	A
Aroclor 1254	ND		ug/kg	368	--	10	A
Aroclor 1260	3500		ug/kg	368	--	10	B
Aroclor 1262	ND		ug/kg	368	--	10	A
Aroclor 1268	ND		ug/kg	368	--	10	A
PCBs, Total	3500		ug/kg	368	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-87
Client ID: C-08 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:11
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 04:53
Analyst: WR
Percent Solids: 78%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.6	--	1	A
Aroclor 1221	ND		ug/kg	42.6	--	1	A
Aroclor 1232	ND		ug/kg	42.6	--	1	A
Aroclor 1242	ND		ug/kg	42.6	--	1	A
Aroclor 1248	ND		ug/kg	42.6	--	1	A
Aroclor 1254	ND		ug/kg	42.6	--	1	A
Aroclor 1260	55.7		ug/kg	42.6	--	1	B
Aroclor 1262	ND		ug/kg	42.6	--	1	A
Aroclor 1268	57.0		ug/kg	42.6	--	1	B
PCBs, Total	112.7		ug/kg	42.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	153	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	138		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-90
Client ID: SB-DUP-4
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 05:06
Analyst: WR
Percent Solids: 77%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.7	--	1	A
Aroclor 1221	ND		ug/kg	41.7	--	1	A
Aroclor 1232	ND		ug/kg	41.7	--	1	A
Aroclor 1242	ND		ug/kg	41.7	--	1	A
Aroclor 1248	ND		ug/kg	41.7	--	1	A
Aroclor 1254	ND		ug/kg	41.7	--	1	A
Aroclor 1260	47.3		ug/kg	41.7	--	1	B
Aroclor 1262	ND		ug/kg	41.7	--	1	A
Aroclor 1268	53.7		ug/kg	41.7	--	1	B
PCBs, Total	10		ug/kg	41.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	158	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	142		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-99 D
Client ID: B-09 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:53
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/17/19 15:27
Analyst: AWS
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	335	--	10	A
Aroclor 1221	ND		ug/kg	335	--	10	A
Aroclor 1232	ND		ug/kg	335	--	10	A
Aroclor 1242	ND		ug/kg	335	--	10	A
Aroclor 1248	2790		ug/kg	335	--	10	B
Aroclor 1254	4040		ug/kg	335	--	10	B
Aroclor 1260	3360		ug/kg	335	--	10	B
Aroclor 1262	ND		ug/kg	335	--	10	A
Aroclor 1268	ND		ug/kg	335	--	10	A
PCBs, Total	10200		ug/kg	335	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-100 D
Client ID: SB-DUP-3
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 22:52
Analyst: AWS
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	345	--	10	A
Aroclor 1221	ND		ug/kg	345	--	10	A
Aroclor 1232	ND		ug/kg	345	--	10	A
Aroclor 1242	ND		ug/kg	345	--	10	A
Aroclor 1248	2920		ug/kg	345	--	10	A
Aroclor 1254	4310		ug/kg	345	--	10	A
Aroclor 1260	3090		ug/kg	345	--	10	B
Aroclor 1262	ND		ug/kg	345	--	10	A
Aroclor 1268	ND		ug/kg	345	--	10	A
PCBs, Total	1030		ug/kg	345	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-102 D
 Client ID: B-09 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:55
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 23:04
 Analyst: AWS
 Percent Solids: 91%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	180	--	5	A
Aroclor 1221	ND		ug/kg	180	--	5	A
Aroclor 1232	ND		ug/kg	180	--	5	A
Aroclor 1242	ND		ug/kg	180	--	5	A
Aroclor 1248	640		ug/kg	180	--	5	A
Aroclor 1254	841		ug/kg	180	--	5	A
Aroclor 1260	1190		ug/kg	180	--	5	B
Aroclor 1262	ND		ug/kg	180	--	5	A
Aroclor 1268	ND		ug/kg	180	--	5	A
PCBs, Total	267		ug/kg	180	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	181	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	115		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-105 D
Client ID: B-09 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:02
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 23:16
Analyst: AWS
Percent Solids: 92%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	173	--	5	A
Aroclor 1221	ND		ug/kg	173	--	5	A
Aroclor 1232	ND		ug/kg	173	--	5	A
Aroclor 1242	ND		ug/kg	173	--	5	A
Aroclor 1248	930		ug/kg	173	--	5	A
Aroclor 1254	1880		ug/kg	173	--	5	A
Aroclor 1260	1610		ug/kg	173	--	5	B
Aroclor 1262	ND		ug/kg	173	--	5	A
Aroclor 1268	ND		ug/kg	173	--	5	A
PCBs, Total	442		ug/kg	173	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	167	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	109		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-106
Client ID: A-06 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:33
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 23:41
Analyst: AWS
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	ND		ug/kg	34.1	--	1	A
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	ND		ug/kg	34.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	70		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-107
Client ID: A-06 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 23:29
Analyst: AWS
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	--	1	A
Aroclor 1221	ND		ug/kg	33.8	--	1	A
Aroclor 1232	ND		ug/kg	33.8	--	1	A
Aroclor 1242	ND		ug/kg	33.8	--	1	A
Aroclor 1248	ND		ug/kg	33.8	--	1	A
Aroclor 1254	ND		ug/kg	33.8	--	1	A
Aroclor 1260	ND		ug/kg	33.8	--	1	A
Aroclor 1262	ND		ug/kg	33.8	--	1	A
Aroclor 1268	ND		ug/kg	33.8	--	1	B
PCBs, Total	ND		ug/kg	33.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	68		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-110
Client ID: SB-DUP-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 23:53
Analyst: AWS
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.3	--	1	A
Aroclor 1221	ND		ug/kg	32.3	--	1	A
Aroclor 1232	ND		ug/kg	32.3	--	1	A
Aroclor 1242	ND		ug/kg	32.3	--	1	A
Aroclor 1248	ND		ug/kg	32.3	--	1	A
Aroclor 1254	ND		ug/kg	32.3	--	1	A
Aroclor 1260	ND		ug/kg	32.3	--	1	A
Aroclor 1262	ND		ug/kg	32.3	--	1	A
Aroclor 1268	ND		ug/kg	32.3	--	1	A
PCBs, Total	ND		ug/kg	32.3	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	83		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-111 D
Client ID: B-05 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:48
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/14/19 00:05
Analyst: AWS
Percent Solids: 92%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	172	--	5	A
Aroclor 1221	ND		ug/kg	172	--	5	A
Aroclor 1232	ND		ug/kg	172	--	5	A
Aroclor 1242	ND		ug/kg	172	--	5	A
Aroclor 1248	1450		ug/kg	172	--	5	A
Aroclor 1254	2160		ug/kg	172	--	5	A
Aroclor 1260	570		ug/kg	172	--	5	B
Aroclor 1262	ND		ug/kg	172	--	5	A
Aroclor 1268	ND		ug/kg	172	--	5	A
PCBs, Total	418		ug/kg	172	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	79		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-112
Client ID: B-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:51
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/14/19 00:17
Analyst: AWS
Percent Solids: 86%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.9	--	1	A
Aroclor 1221	ND		ug/kg	37.9	--	1	A
Aroclor 1232	ND		ug/kg	37.9	--	1	A
Aroclor 1242	ND		ug/kg	37.9	--	1	A
Aroclor 1248	ND		ug/kg	37.9	--	1	A
Aroclor 1254	ND		ug/kg	37.9	--	1	B
Aroclor 1260	ND		ug/kg	37.9	--	1	B
Aroclor 1262	ND		ug/kg	37.9	--	1	A
Aroclor 1268	ND		ug/kg	37.9	--	1	A
PCBs, Total	ND		ug/kg	37.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	79		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
Client ID: B-05 (3-5)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 14:58
Analyst: WR
Percent Solids: 69%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	47.1	--	1	A
Aroclor 1221	ND		ug/kg	47.1	--	1	A
Aroclor 1232	ND		ug/kg	47.1	--	1	A
Aroclor 1242	ND		ug/kg	47.1	--	1	A
Aroclor 1248	ND		ug/kg	47.1	--	1	A
Aroclor 1254	ND		ug/kg	47.1	--	1	A
Aroclor 1260	ND		ug/kg	47.1	--	1	A
Aroclor 1262	ND		ug/kg	47.1	--	1	A
Aroclor 1268	ND		ug/kg	47.1	--	1	A
PCBs, Total	ND		ug/kg	47.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	81		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-117 D
Client ID: C-05 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:12
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/17/19 15:15
Analyst: AWS
Percent Solids: 87%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	186	--	5	A
Aroclor 1221	ND		ug/kg	186	--	5	A
Aroclor 1232	ND		ug/kg	186	--	5	A
Aroclor 1242	ND		ug/kg	186	--	5	A
Aroclor 1248	ND		ug/kg	186	--	5	A
Aroclor 1254	ND		ug/kg	186	--	5	A
Aroclor 1260	2560		ug/kg	186	--	5	B
Aroclor 1262	ND		ug/kg	186	--	5	A
Aroclor 1268	ND		ug/kg	186	--	5	A
PCBs, Total	2560		ug/kg	186	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	145		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	120		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-118
Client ID: C-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:15
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:23
Analyst: WR
Percent Solids: 86%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	--	1	A
Aroclor 1221	ND		ug/kg	38.0	--	1	A
Aroclor 1232	ND		ug/kg	38.0	--	1	A
Aroclor 1242	ND		ug/kg	38.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	38.0	--	1	A
Aroclor 1260	57.6		ug/kg	38.0	--	1	B
Aroclor 1262	ND		ug/kg	38.0	--	1	A
Aroclor 1268	ND		ug/kg	38.0	--	1	A
PCBs, Total	57.6		ug/kg	38.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	91		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-121
Client ID: C-06 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:32
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:35
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	ND		ug/kg	34.1	--	1	B
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	ND		ug/kg	34.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	118		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	88		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-122
Client ID: C-06 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:34
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:48
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	--	1	A
Aroclor 1221	ND		ug/kg	34.7	--	1	A
Aroclor 1232	ND		ug/kg	34.7	--	1	A
Aroclor 1242	ND		ug/kg	34.7	--	1	A
Aroclor 1248	ND		ug/kg	34.7	--	1	A
Aroclor 1254	ND		ug/kg	34.7	--	1	A
Aroclor 1260	ND		ug/kg	34.7	--	1	A
Aroclor 1262	ND		ug/kg	34.7	--	1	A
Aroclor 1268	ND		ug/kg	34.7	--	1	A
PCBs, Total	ND		ug/kg	34.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	89		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-125
Client ID: A-05 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 12:12
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:00
Analyst: WR
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	--	1	A
Aroclor 1221	ND		ug/kg	35.2	--	1	A
Aroclor 1232	ND		ug/kg	35.2	--	1	A
Aroclor 1242	ND		ug/kg	35.2	--	1	A
Aroclor 1248	ND		ug/kg	35.2	--	1	A
Aroclor 1254	ND		ug/kg	35.2	--	1	A
Aroclor 1260	ND		ug/kg	35.2	--	1	A
Aroclor 1262	ND		ug/kg	35.2	--	1	A
Aroclor 1268	ND		ug/kg	35.2	--	1	A
PCBs, Total	ND		ug/kg	35.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	104		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-126
Client ID: A-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 12:14
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:12
Analyst: WR
Percent Solids: 94%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	--	1	A
Aroclor 1221	ND		ug/kg	33.9	--	1	A
Aroclor 1232	ND		ug/kg	33.9	--	1	A
Aroclor 1242	ND		ug/kg	33.9	--	1	A
Aroclor 1248	ND		ug/kg	33.9	--	1	A
Aroclor 1254	ND		ug/kg	33.9	--	1	A
Aroclor 1260	ND		ug/kg	33.9	--	1	A
Aroclor 1262	ND		ug/kg	33.9	--	1	A
Aroclor 1268	ND		ug/kg	33.9	--	1	A
PCBs, Total	ND		ug/kg	33.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	158	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	137		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-129
Client ID: E-02 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:24
Analyst: WR
Percent Solids: 94%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	--	1	A
Aroclor 1221	ND		ug/kg	33.8	--	1	A
Aroclor 1232	ND		ug/kg	33.8	--	1	A
Aroclor 1242	ND		ug/kg	33.8	--	1	A
Aroclor 1248	ND		ug/kg	33.8	--	1	A
Aroclor 1254	ND		ug/kg	33.8	--	1	A
Aroclor 1260	127		ug/kg	33.8	--	1	B
Aroclor 1262	ND		ug/kg	33.8	--	1	A
Aroclor 1268	ND		ug/kg	33.8	--	1	A
PCBs, Total	127		ug/kg	33.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	80		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-130
Client ID: E-02 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:08
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:37
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.6	--	1	A
Aroclor 1221	ND		ug/kg	33.6	--	1	A
Aroclor 1232	ND		ug/kg	33.6	--	1	A
Aroclor 1242	ND		ug/kg	33.6	--	1	A
Aroclor 1248	ND		ug/kg	33.6	--	1	A
Aroclor 1254	ND		ug/kg	33.6	--	1	A
Aroclor 1260	ND		ug/kg	33.6	--	1	A
Aroclor 1262	ND		ug/kg	33.6	--	1	A
Aroclor 1268	ND		ug/kg	33.6	--	1	A
PCBs, Total	ND		ug/kg	33.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	89		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-137
Client ID: SB-1 (0-0.5)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:33
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:49
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	--	1	A
Aroclor 1221	ND		ug/kg	34.2	--	1	A
Aroclor 1232	ND		ug/kg	34.2	--	1	A
Aroclor 1242	ND		ug/kg	34.2	--	1	A
Aroclor 1248	ND		ug/kg	34.2	--	1	A
Aroclor 1254	ND		ug/kg	34.2	--	1	A
Aroclor 1260	ND		ug/kg	34.2	--	1	B
Aroclor 1262	ND		ug/kg	34.2	--	1	A
Aroclor 1268	ND		ug/kg	34.2	--	1	A
PCBs, Total	ND		ug/kg	34.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	78		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 18:09
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	--	1	A
Aroclor 1221	ND		ug/kg	36.2	--	1	A
Aroclor 1232	ND		ug/kg	36.2	--	1	A
Aroclor 1242	ND		ug/kg	36.2	--	1	A
Aroclor 1248	ND		ug/kg	36.2	--	1	A
Aroclor 1254	ND		ug/kg	36.2	--	1	A
Aroclor 1260	83.8		ug/kg	36.2	--	1	B
Aroclor 1262	ND		ug/kg	36.2	--	1	A
Aroclor 1268	ND		ug/kg	36.2	--	1	A
PCBs, Total	83.8		ug/kg	36.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	94		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
Client ID: SB-1 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 18:21
Analyst: WR
Percent Solids: 90%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	--	1	A
Aroclor 1221	ND		ug/kg	36.8	--	1	A
Aroclor 1232	ND		ug/kg	36.8	--	1	A
Aroclor 1242	ND		ug/kg	36.8	--	1	A
Aroclor 1248	ND		ug/kg	36.8	--	1	A
Aroclor 1254	ND		ug/kg	36.8	--	1	A
Aroclor 1260	51.4		ug/kg	36.8	--	1	B
Aroclor 1262	ND		ug/kg	36.8	--	1	A
Aroclor 1268	ND		ug/kg	36.8	--	1	A
PCBs, Total	51.4		ug/kg	36.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	99		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
Client ID: SB-DUP-1
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 18:33
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.1	--	1	A
Aroclor 1221	ND		ug/kg	33.1	--	1	A
Aroclor 1232	ND		ug/kg	33.1	--	1	A
Aroclor 1242	ND		ug/kg	33.1	--	1	A
Aroclor 1248	ND		ug/kg	33.1	--	1	A
Aroclor 1254	ND		ug/kg	33.1	--	1	A
Aroclor 1260	88.0		ug/kg	33.1	--	1	B
Aroclor 1262	ND		ug/kg	33.1	--	1	A
Aroclor 1268	ND		ug/kg	33.1	--	1	A
PCBs, Total	88.0		ug/kg	33.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	108		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	93		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-141
Client ID: SB-1 (3-5)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:42
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 18:53
Analyst: WR
Percent Solids: 78%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	--	1	A
Aroclor 1221	ND		ug/kg	41.0	--	1	A
Aroclor 1232	ND		ug/kg	41.0	--	1	A
Aroclor 1242	ND		ug/kg	41.0	--	1	A
Aroclor 1248	ND		ug/kg	41.0	--	1	A
Aroclor 1254	ND		ug/kg	41.0	--	1	A
Aroclor 1260	ND		ug/kg	41.0	--	1	A
Aroclor 1262	ND		ug/kg	41.0	--	1	A
Aroclor 1268	ND		ug/kg	41.0	--	1	A
PCBs, Total	ND		ug/kg	41.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	74		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8082A
 Analytical Date: 09/11/19 22:26
 Analyst: WR

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-09 Batch: WG1281465-1					
Aroclor 1016	ND		ug/kg	56.3	B
Aroclor 1221	ND		ug/kg	56.3	B
Aroclor 1232	ND		ug/kg	56.3	B
Aroclor 1242	ND		ug/kg	56.3	B
Aroclor 1248	ND		ug/kg	37.5	B
Aroclor 1254	ND		ug/kg	56.3	B
Aroclor 1260	ND		ug/kg	37.5	B
Aroclor 1262	ND		ug/kg	18.8	B
Aroclor 1268	ND		ug/kg	18.8	B
PCBs, Total	ND		ug/kg	18.8	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	71		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 97,8082A
 Analytical Date: 09/11/19 07:16
 Analyst: KB

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 10-13,19,23,40,41,45,51-52 Batch: WG1281488-1					
Aroclor 1016	ND		ug/kg	32.8	A
Aroclor 1221	ND		ug/kg	32.8	A
Aroclor 1232	ND		ug/kg	32.8	A
Aroclor 1242	ND		ug/kg	32.8	A
Aroclor 1248	ND		ug/kg	32.8	A
Aroclor 1254	ND		ug/kg	32.8	A
Aroclor 1260	ND		ug/kg	32.8	A
Aroclor 1262	ND		ug/kg	32.8	A
Aroclor 1268	ND		ug/kg	32.8	A
PCBs, Total	ND		ug/kg	32.8	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	96		30-150	B
2,4,5,6-Tetrachloro-p-m-xylene	85		30-150	A
Decachlorobiphenyl	86		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 09/12/19 05:18
 Analyst: WR

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 56-58,61,66-67,74-75,86-87,90,99-100,102,105-107,110-112 Batch: WG1281518-1					
Aroclor 1016	ND		ug/kg	32.2	A
Aroclor 1221	ND		ug/kg	32.2	A
Aroclor 1232	ND		ug/kg	32.2	A
Aroclor 1242	ND		ug/kg	32.2	A
Aroclor 1248	ND		ug/kg	32.2	A
Aroclor 1254	ND		ug/kg	32.2	A
Aroclor 1260	ND		ug/kg	32.2	A
Aroclor 1262	ND		ug/kg	32.2	A
Aroclor 1268	ND		ug/kg	32.2	A
PCBs, Total	ND		ug/kg	32.2	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-p-m-xylene	74		30-150	A
Decachlorobiphenyl	81		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 09/16/19 17:01
 Analyst: WR

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 115,117-118,121-122,125-126,129-130,137-141 Batch: WG1281533-1					
Aroclor 1016	ND		ug/kg	32.5	A
Aroclor 1221	ND		ug/kg	32.5	A
Aroclor 1232	ND		ug/kg	32.5	A
Aroclor 1242	ND		ug/kg	32.5	A
Aroclor 1248	ND		ug/kg	32.5	A
Aroclor 1254	ND		ug/kg	32.5	A
Aroclor 1260	ND		ug/kg	32.5	A
Aroclor 1262	ND		ug/kg	32.5	A
Aroclor 1268	ND		ug/kg	32.5	A
PCBs, Total	ND		ug/kg	32.5	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-p-m-xylene	61		30-150	A
Decachlorobiphenyl	74		30-150	A

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 09/10/19 14:23
 Analyst: WR

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 15-18,22,25,32 Batch: WG1281633-1					
Aroclor 1016	ND		ug/kg	32.7	A
Aroclor 1221	ND		ug/kg	32.7	A
Aroclor 1232	ND		ug/kg	32.7	A
Aroclor 1242	ND		ug/kg	32.7	A
Aroclor 1248	ND		ug/kg	32.7	A
Aroclor 1254	ND		ug/kg	32.7	A
Aroclor 1260	ND		ug/kg	32.7	A
Aroclor 1262	ND		ug/kg	32.7	A
Aroclor 1268	ND		ug/kg	32.7	A
PCBs, Total	ND		ug/kg	32.7	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-p-m-xylene	67		30-150	A
Decachlorobiphenyl	62		30-150	A

NOT APPLICABLE



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits	Column
	%Recovery	Qual	%Recovery	Qual					
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-09 Batch: WG1281465-2 WG1281465-									
Aroclor 1016	73		82		4-140	12		30	B
Aroclor 1260	67		75		40-140	11		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		74		30-150	B
Decachlorobiphenyl	76		83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		69		30-150	A
Decachlorobiphenyl	63		69		30-150	A

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits	Column
	%Recovery	Qual	%Recovery	Qual					
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 10-13,19,33,40-41,45,51-52 Batch: WG1281488-2 WG1281488-3									
Aroclor 1016	75		76		4-140	1		30	A
Aroclor 1260	63		63		40-140	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		84		30-150	B
Decachlorobiphenyl	87		82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		83		30-150	A
Decachlorobiphenyl	80		74		30-150	A

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 56-58,61,66-67,74-75,86-87,90,99-100,102,104-107,110-112 Batch: WG1281518-2 WG1281518-3								
Aroclor 1016	78		80		40-100	3	30	A
Aroclor 1260	71		72		40-100	1	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		77		30-150	B
Decachlorobiphenyl	88		88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		76		30-150	A
Decachlorobiphenyl	76		77		30-150	A

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 115,117-118,121-122,125-126,129-130,137-140 Batch: WG1281533-2 WG1281533-3								
Aroclor 1016	72		73		40-100	1	30	A
Aroclor 1260	72		75		40-100	4	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	B
Decachlorobiphenyl	95		90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		67		30-150	A
Decachlorobiphenyl	77		78		30-150	A

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 15-18,22-25,32 Batch: WG1281633-1 WG1281633-2 WG1281633-3									
Aroclor 1016	84		89		40-140	6		30	A
Aroclor 1260	60		55		40-140	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		69		30-150	B
Decachlorobiphenyl	68		64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		71		30-150	A
Decachlorobiphenyl	40		39		30-150	A

NOT APPLICABLE

METALS

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
 Client ID: SB-4 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	3.39		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Barium, Total	62.6		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Cadmium, Total	0.672		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Chromium, Total	47.3		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Lead, Total	12.6		mg/kg	2.05	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.080	--	1	09/15/19 06:15	09/16/19 17:10	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.05	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Zinc, Total	30.1		mg/kg	2.05	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
 Client ID: SB-4 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	4.72		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Barium, Total	34.3		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Cadmium, Total	0.939		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Chromium, Total	11.3		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Lead, Total	99.1		mg/kg	2.14	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.081	--	1	09/15/19 06:13	09/16/19 17:14	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.14	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Zinc, Total	41.7		mg/kg	2.14	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	9.82		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Barium, Total	170		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Cadmium, Total	0.733		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Chromium, Total	11.9		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Lead, Total	96.0		mg/kg	2.64	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.097	--	1	09/15/19 06:15	09/16/19 17:25	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.64	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Zinc, Total	109		mg/kg	2.64	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
 Client ID: SB-3 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	4.74		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Barium, Total	26.4		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Cadmium, Total	0.461		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Chromium, Total	17.8		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Lead, Total	48.7		mg/kg	2.06	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.078	--	1	09/15/19 06:13	09/16/19 17:27	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.06	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Zinc, Total	51.4		mg/kg	2.06	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18
 Client ID: SB-3 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	4.35		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Barium, Total	27.5		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Cadmium, Total	0.565		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Chromium, Total	9.98		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Lead, Total	108		mg/kg	2.02	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.079	--	1	09/15/19 06:13	09/16/19 17:29	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.02	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Zinc, Total	46.6		mg/kg	2.02	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
 Client ID: SB-3 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.04		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Barium, Total	51.3		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Cadmium, Total	0.826		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Chromium, Total	25.0		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Lead, Total	153		mg/kg	2.29	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Mercury, Total	0.160		mg/kg	0.090	--	1	09/15/19 06:53	09/16/19 17:31	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.29	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Zinc, Total	74.4		mg/kg	2.29	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
 Client ID: SB-2 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	9.19		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Barium, Total	132		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Cadmium, Total	0.851		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Chromium, Total	67.9		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Lead, Total	215		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Mercury, Total	0.330		mg/kg	0.080	--	1	09/15/19 06:53	09/16/19 16:53	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Zinc, Total	123		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
 Client ID: SB-2 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.41		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Barium, Total	98.5		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Cadmium, Total	0.875		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Chromium, Total	47.7		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Lead, Total	149		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Mercury, Total	2.03		mg/kg	0.088	--	1	09/15/19 06:53	09/16/19 17:33	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Zinc, Total	116		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	7.93		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Barium, Total	126		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Cadmium, Total	1.33		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Chromium, Total	41.3		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Lead, Total	698		mg/kg	2.46	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Mercury, Total	0.393		mg/kg	0.092	--	1	09/15/19 06:15	09/16/19 17:35	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.46	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Zinc, Total	512		mg/kg	2.46	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44

Date Collected: 09/04/19 12:16

Client ID: D-07 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.68		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Barium, Total	297		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Cadmium, Total	3.02		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Chromium, Total	26.2		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Lead, Total	2650		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Mercury, Total	0.326		mg/kg	0.081	--	1	09/15/19 06:53	09/16/19 17:37	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Zinc, Total	722		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
 Client ID: D-07 (7-9)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	3.80		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Barium, Total	17.2		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Cadmium, Total	ND		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Chromium, Total	15.2		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Lead, Total	10.5		mg/kg	2.49	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.095	--	1	09/15/19 06:13	09/16/19 17:39	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.49	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Zinc, Total	25.3		mg/kg	2.49	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
 Client ID: SB-DUP-5
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.93		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Barium, Total	168		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Cadmium, Total	2.78		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Chromium, Total	30.8		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Lead, Total	1220		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Mercury, Total	0.462		mg/kg	0.083	--	1	09/15/19 06:53	09/16/19 17:41	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Zinc, Total	534		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55
 Client ID: E-06 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.53		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Barium, Total	269		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Cadmium, Total	1.82		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Chromium, Total	48.6		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Lead, Total	241		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Mercury, Total	2.59		mg/kg	0.079	--	1	09/15/19 06:53	09/16/19 17:43	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Zinc, Total	415		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
 Client ID: E-06 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.74		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Barium, Total	75.0		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Cadmium, Total	1.74		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Chromium, Total	24.6		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Lead, Total	50.8		mg/kg	2.45	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Mercury, Total	0.362		mg/kg	0.095	--	1	09/15/19 06:13	09/16/19 17:49	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.45	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Zinc, Total	52.3		mg/kg	2.45	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
 Client ID: B-09 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:54
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	17.0		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Barium, Total	328		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Cadmium, Total	6.38		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Chromium, Total	37.8		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Lead, Total	717		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Mercury, Total	0.789		mg/kg	0.083	--	1	09/15/19 06:03	09/16/19 17:07	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Silver, Total	0.481		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Zinc, Total	774		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-105
 Client ID: B-09 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:02
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	10.6		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Barium, Total	410		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Cadmium, Total	6.16		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Chromium, Total	40.0		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Lead, Total	1150		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Mercury, Total	0.887		mg/kg	0.083	--	1	09/15/19 06:13	09/16/19 17:08	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Silver, Total	2.11		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Zinc, Total	914		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113
 Client ID: B-05 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:54
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	49.0		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Barium, Total	59.0		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Cadmium, Total	2.66		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Chromium, Total	19.4		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Lead, Total	242		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Mercury, Total	0.612		mg/kg	0.087	--	1	09/15/19 07:53	09/16/19 17:56	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Zinc, Total	245		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
 Client ID: B-05 (3-5)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	13.4		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Barium, Total	26.0		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Cadmium, Total	0.601		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Chromium, Total	15.8		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Lead, Total	33.4		mg/kg	2.81	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Mercury, Total	0.107		mg/kg	0.107	--	1	09/15/19 06:13	09/16/19 17:12	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.81	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Zinc, Total	31.7		mg/kg	2.81	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
 Client ID: SB-1 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	5.94		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Barium, Total	74.6		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Cadmium, Total	1.11		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Chromium, Total	25.6		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Lead, Total	342		mg/kg	2.13	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Mercury, Total	0.121		mg/kg	0.081	--	1	09/15/19 06:13	09/16/19 17:16	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.13	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Zinc, Total	135		mg/kg	2.13	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
 Client ID: SB-1 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.12		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Barium, Total	58.3		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Cadmium, Total	0.921		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Chromium, Total	13.9		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Lead, Total	236		mg/kg	2.08	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Mercury, Total	0.306		mg/kg	0.084	--	1	09/16/19 08:15	09/16/19 16:15	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.08	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Zinc, Total	121		mg/kg	2.08	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
 Client ID: SB-DUP-1
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.44		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Barium, Total	99.9		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Cadmium, Total	1.04		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Chromium, Total	30.6		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Lead, Total	371		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Mercury, Total	0.139		mg/kg	0.078	--	1	09/15/19 06:13	09/16/19 17:18	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Zinc, Total	151		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143

Date Collected: 09/05/19 13:48

Client ID: SB-1 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.94		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Barium, Total	100		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Cadmium, Total	1.60		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Chromium, Total	16.9		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Lead, Total	272		mg/kg	2.48	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Mercury, Total	0.329		mg/kg	0.095	--	1	09/16/19 06:15	09/16/19 17:20	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.48	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Zinc, Total	129		mg/kg	2.48	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 Batch: WG1284380-1									
Arsenic, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Barium, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Cadmium, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Chromium, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Lead, Total	ND	mg/kg	2.00	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Selenium, Total	ND	mg/kg	2.00	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Silver, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Zinc, Total	ND	mg/kg	2.00	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,115,138,140,143 Batch: WG1284435-1									
Mercury, Total	ND	mg/kg	0.083	--	1	09/16/19 06:00	09/16/19 16:47	97,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 113 Batch: WG1284436-1									
Mercury, Total	ND	mg/kg	0.083	--	1	09/16/19 07:00	09/16/19 17:50	97,7471B	GD

Prep Information

Digestion Method: EPA 7471B



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 139 Batch: WG1284469-1									
Mercury, Total	ND	mg/kg	0.083	--	1	09/16/19 08:20	09/16/19 16:05	97,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 139,143 Batch: WG1284469-1									
Arsenic, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Barium, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Cadmium, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Chromium, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Lead, Total	ND	mg/kg	2.00	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Selenium, Total	ND	mg/kg	2.00	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Silver, Total	ND	mg/kg	0.100	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Zinc, Total	ND	mg/kg	2.00	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC

Prep Information

Digestion Method: EPA 3050B

NOT APPLICABLE



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 Batch: WG1284380-2 WG1284380-3 SRM Lot Number: D105-540								
Arsenic, Total	92		93		70-80	1		30
Barium, Total	80		87		75-125	8		30
Cadmium, Total	96		94		75-125	2		30
Chromium, Total	80		83		70-130	4		30
Lead, Total	83		84		71-128	1		30
Selenium, Total	91		92		63-137	1		30
Silver, Total	83		85		69-131	2		30
Zinc, Total	85		86		70-130	1		30
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,115,138,140,143 Batch: WG1284435-2 WG1284435-3 SRM Lot Number: D105-540								
Mercury, Total	94		96		60-141	2		30
MCP Total Metals - Mansfield Lab Associated sample(s): 115 Batch: WG1284436-2 WG1284436-3 SRM Lot Number: D105-540								
Mercury, Total	90		94		60-141	4		30
MCP Total Metals - Mansfield Lab Associated sample(s): 119 Batch: WG1284469-2 WG1284469-3 SRM Lot Number: D105-540								
Mercury, Total	91		96		60-141	5		30

NOT APPLICABLE

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 139,143 Batch: WG1284649-2 WG1284649-3 SRM Lot Number: D105-540					
Arsenic, Total	94	92	70-125	2	30
Barium, Total	86	89	75-125	3	30
Cadmium, Total	89	94	75-125	5	30
Chromium, Total	81	82	70-130	1	30
Lead, Total	84	81	71-128	4	30
Selenium, Total	92	90	63-137	2	30
Silver, Total	86	85	69-131	1	30
Zinc, Total	85	86	70-130	1	30

NOT APPLICABLE

Matrix Spike Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-4 WG1284380-5 QC Sample: L1940717-23 Client ID: SB-2 (1-2)												
Arsenic, Total	9.19	10.2	18.9	95		17.7	82		75-125	7		35
Barium, Total	132	170	242	65	Q	238	61	Q	75-125	2		35
Cadmium, Total	0.851	4.33	4.58	86		4.80	90		75-125	5		35
Chromium, Total	67.9	17	82.3	85		53.8	0	Q	75-125	42	Q	35
Lead, Total	215	43.3	207	0	Q	200	0	Q	75-125	3		35
Selenium, Total	ND	10.2	9.20	90		9.60	93		75-125	4		35
Silver, Total	ND	25.4	22.2	87		22.9	88		75-125	3		35
Zinc, Total	123	42.4	155	75		185	144	Q	75-125	18		35

MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-7 WG1284380-8 QC Sample: L1940717-113 Client ID: B-05 (1-3)												
Arsenic, Total	49.0	10.8	57.3	77		58.6	92		75-125	2		35
Barium, Total	59.0	180	226	93		215	90		75-125	5		35
Cadmium, Total	2.66	4.59	6.43	82		6.26	81		75-125	3		35
Chromium, Total	19.4	18	32.1	70	Q	32.8	77		75-125	2		35
Lead, Total	242	45.9	263	46	Q	304	140	Q	75-125	14		35
Selenium, Total	ND	10.8	11.1	103		10.7	103		75-125	4		35
Silver, Total	ND	27	24.3	90		23.3	89		75-125	4		35
Zinc, Total	245	45	613	818	Q	273	64	Q	75-125	77	Q	35

MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,115,138,140,143 QC Batch ID: WG1284435-4 WG1284435-5 QC Sample: L1940717-23 Client ID: SB-2 (1-2)												
Mercury, Total	0.330	0.167	0.504	104		0.523	120		75-125	4		35

Matrix Spike Analysis
Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 113 QC Batch ID: WG1284436-4 WG1284436-5 QC Sample: L1940717-113 Client ID: B-05 (1-3)									
Mercury, Total	0.612	0.17	0.793	107	0.743	76	75-125	7	35
MCP Total Metals - Mansfield Lab Associated sample(s): 139 QC Batch ID: WG1284469-4 WG1284469-5 QC Sample: L1940717-139 Client ID: SB-1 (2-3)									
Mercury, Total	0.306	0.164	0.503	120	0.544	141	Q 75-125	8	35
MCP Total Metals - Mansfield Lab Associated sample(s): 139,143 QC Batch ID: WG1284649-4 WG1284649-5 QC Sample: L1940717-139 Client ID: SB-1 (2-3)									
Arsenic, Total	6.12	10.6	22.0	149	22.1	149	Q 75-125	0	35
Barium, Total	58.3	177	224	93	224	93	75-125	0	35
Cadmium, Total	0.921	4.52	6.46	116	6.23	116	75-125	4	35
Chromium, Total	13.9	17.7	34.9	118	35.3	120	75-125	1	35
Lead, Total	236	45.2	271	77	293	125	75-125	8	35
Selenium, Total	ND	10.6	9.54	90	9.84	92	75-125	3	35
Silver, Total	ND	26.6	24.0	90	24.6	92	75-125	2	35
Zinc, Total	121	44.3	162	92	164	96	75-125	1	35

NOT APPLICABLE

Project Name: TOMBARELLO SITE
Project Number: 17001426

**Lab Serial Dilution
 Analysis
 Batch Quality Control**

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	Serial Dilution	Units	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-6 QC Sample: L1940717-23 Client ID: SB-2 (1-2)						
Barium, Total	132	103	mg/kg	22	Q	20
Chromium, Total	67.9	70.8	mg/kg	4		20
Lead, Total	215	279	mg/kg	30	Q	20
Zinc, Total	123	158	mg/kg	28	Q	20

MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-9 QC Sample: L1940717-113 Client ID: B-05 (1-3)						
Arsenic, Total	49.0	57.0	mg/kg	16		20
Barium, Total	59.0	49.4	mg/kg	16		20
Lead, Total	242	306	mg/kg	26	Q	20
Zinc, Total	245	313	mg/kg	28	Q	20

NOT APPLICABLE

**INORGANICS
&
MISCELLANEOUS**

NOT APPLICABLE

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-01

Date Collected: 09/03/19 11:05

Client ID: AS-5

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-02

Date Collected: 09/03/19 11:15

Client ID: AS-6

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-03

Date Collected: 09/03/19 11:20

Client ID: AS-7

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.0		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-04

Date Collected: 09/03/19 11:25

Client ID: AS-8

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-05
Client ID: AS-1
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:45
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.0		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-06
 Client ID: AS-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-07
Client ID: AS-3
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:55
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.6		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-08
 Client ID: AS-4
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 12:05
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-09
Client ID: AS-DUP-1
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-10

Date Collected: 09/04/19 08:30

Client ID: SB-4 (0-0.5)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	95.9		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
Client ID: SB-4 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.846	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	5.7		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
Client ID: SB-4 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.857	--	1	09/13/19 19:00	09/15/19 18:34	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	93.3		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	6.3		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	190		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-13

Client ID: SB-4 (3-5)

Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:05

Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
Client ID: SB-4 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.06	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	75.3		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-16

Date Collected: 09/04/19 09:20

Client ID: SB-3 (0-0.5)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	95.0		%	0.100	NA	1	-	09/07/19 09:27	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
Client ID: SB-3 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.853	--	1	09/13/19 19:00	09/15/19 18:34	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	6.5		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18

Client ID: SB-3 (2-3)

Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30

Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.846	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-19

Client ID: SB-3 (3-5)

Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:35

Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	09/07/19 09:37	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
Client ID: SB-3 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.966	--	1	09/13/19 19:00	09/15/19 18:34	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	6.2		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-22

Date Collected: 09/04/19 10:00

Client ID: SB-2 (0-0.5)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	96.8		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23

Client ID: SB-2 (1-2)

Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05

Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.885	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.9		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
Client ID: SB-2 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	1.13		mg/kg	0.897	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-25
Client ID: SB-2 (3-5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:15
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
Client ID: SB-2 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.985	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-32

Date Collected: 09/04/19 11:25

Client ID: E-08 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-33

Date Collected: 09/04/19 11:30

Client ID: E-08 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	92.9		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-40
Client ID: D-07 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:12
Date Received: 09/06/19
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	93.3		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-41

Date Collected: 09/04/19 12:14

Client ID: D-07 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	92.4		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44

Date Collected: 09/04/19 12:16

Client ID: D-07 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.881	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
Client ID: D-07 (7-9)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.03	--	1	09/13/19 22:25	09/15/19 18:30	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	77.6		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	6.4		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
Client ID: SB-DUP-5
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.881	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-51
Client ID: E-06 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:22
Date Received: 09/06/19
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	96.3		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-52

Date Collected: 09/04/19 13:26

Client ID: E-06 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55
Client ID: E-06 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.856	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
Client ID: E-06 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.02	--	1	09/13/19 22:25	09/15/19 18:30	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	78.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-57

Date Collected: 09/04/19 14:10

Client ID: E-05 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-58

Date Collected: 09/04/19 14:12

Client ID: E-05 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-61
Client ID: SB-DUP-6
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-66

Date Collected: 09/04/19 14:50

Client ID: D-09 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-67

Client ID: D-09 (2-3)

Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:53

Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.3		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-74

Client ID: B-07 (1-2)

Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 15:27

Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-75

Date Collected: 09/04/19 15:29

Client ID: B-07 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-86

Date Collected: 09/05/19 09:08

Client ID: C-08 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-87

Date Collected: 09/05/19 09:11

Client ID: C-08 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.9		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-90
Client ID: SB-DUP-4
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-99

Date Collected: 09/05/19 09:53

Client ID: B-09 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	95.5		%	0.100	NA	1	-	09/07/19 09:53	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-100

Date Collected: 09/05/19 00:00

Client ID: SB-DUP-3

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	96.4		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
Client ID: B-09 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:54
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.857	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	93.3		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	7.0		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-102

Date Collected: 09/05/19 09:55

Client ID: B-09 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	09/07/19 09:57	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-105
Client ID: B-09 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:02
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.872	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	6.8		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-106

Date Collected: 09/05/19 10:33

Client ID: A-06 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	96.7		%	0.100	NA	1	-	09/07/19 09:37	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-107

Date Collected: 09/05/19 10:36

Client ID: A-06 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.1		%	0.100	NA	1	-	09/07/19 09:37	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-110

Date Collected: 09/05/19 00:00

Client ID: SB-DUP-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.2		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-111

Date Collected: 09/05/19 10:48

Client ID: B-05 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.9		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-112

Date Collected: 09/05/19 10:51

Client ID: B-05 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113

Date Collected: 09/05/19 10:54

Client ID: B-05 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.918	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
Client ID: B-05 (3-5)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.15	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	69.3		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-117

Date Collected: 09/05/19 11:12

Client ID: C-05 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-118
Client ID: C-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:15
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-121

Date Collected: 09/05/19 11:32

Client ID: C-06 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	95.2		%	0.100	NA	1	-	09/07/19 09:32	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-122
Client ID: C-06 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:34
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	09/07/19 09:33	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-125
Client ID: A-05 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 12:12
Date Received: 09/06/19
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	93.0		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-126

Date Collected: 09/05/19 12:14

Client ID: A-05 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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	94.3		%	0.100	NA	1	-	09/07/19 09:33	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-129
Client ID: E-02 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:05
Date Received: 09/06/19
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	94.0		%	0.100	NA	1	-	09/07/19 09:33	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-130

Client ID: E-02 (2-3)

Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:08

Date Received: 09/06/19

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	94.5		%	0.100	NA	1	-	09/07/19 09:33	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-137
Client ID: SB-1 (0-0.5)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:33
Date Received: 09/06/19
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	95.0		%	0.100	NA	1	-	09/07/19 09:33	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.870	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139

Date Collected: 09/05/19 13:39

Client ID: SB-1 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.894	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	7.7		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
Client ID: SB-DUP-1
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.840	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	95.2		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	8.2		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-141

Client ID: SB-1 (3-5)

Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:42

Date Received: 09/06/19

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	78.4		%	0.100	NA	1	-	09/07/19 09:33	121,2540G	RI

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.01	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab for sample(s): 11-12,101,105,113,115,138 Batch: WG1283971-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
MCP General Chemistry - Westborough Lab for sample(s): 15,17-18,21,24,27,139-140,143 Batch: WG1283979-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
MCP General Chemistry - Westborough Lab for sample(s): 23,44-45,50,55-56 Batch: WG1283980-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 15,18,23,27,44,50,55,113,139-140 Batch: WG1281496-1								
Oxidation/Reduction Potential	101		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 15,18,23,27,44,50,55,113,139-140 Batch: WG1281505-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 Batch: WG1281961-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 Batch: WG1281998-1								
Oxidation/Reduction Potential	101		-		90-110	-		20
MCP General Chemistry - Westborough Lab Associated sample(s): 11-12,101,105,113,115,138 Batch: WG1283971-2 WG1283971-3								
Chromium, Hexavalent	97		103		70-129	6		20
MCP General Chemistry - Westborough Lab Associated sample(s): 15,17-18,21,24,27,139-140,143 Batch: WG1283979-2 WG1283979-3								
Chromium, Hexavalent	97		103		70-129	6		20
MCP General Chemistry - Westborough Lab Associated sample(s): 23,44-45,50,55-56 Batch: WG1283980-2 WG1283980-3								
Chromium, Hexavalent	86		85		70-129	1		20



Matrix Spike Analysis
Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
MCP General Chemistry - Westborough Lab Associated sample(s): 11-12,101,105,113,115,138 QC Batch ID: WG1283971-4 WG1283971-5 QC Sample: L1940717-113 Client ID: B-05 (1-3)												
Chromium, Hexavalent	ND	772	726	94		840	106		75-125	15		35
MCP General Chemistry - Westborough Lab Associated sample(s): 15,17-18,21,24,27,139-140,143 QC Batch ID: WG1283979-4 WG1283979-5 QC Sample: L1940717-139 Client ID: SB-1 (2-3)												
Chromium, Hexavalent	ND	990	933	94		842	87		75-125	10		35
MCP General Chemistry - Westborough Lab Associated sample(s): 23,44-45,50,55-56 QC Batch ID: WG1283980-4 WG1283980-5 QC Sample: L1940717-23 Client ID: SB-2 (1-2)												
Chromium, Hexavalent	ND	762	793	104		804	102		75-125	1		35

Lab Duplicate Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13,15-19,21-22 QC Batch ID: WG1281442-1 QC Sample: L1940717-01 Client ID: AS-5						
Solids, Total	100	99.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 23-25,27,32-33,40-41,44-45,50-52,55-58,61,66-67 QC Batch ID: WG1281445-1 QC Sample: L1940717-23 Client ID: SB-2 (1-2)						
Solids, Total	90.4	91.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 74-75,86-87,90,99-102,105-107,110-113,115,117-118 QC Batch ID: WG1281446-1 QC Sample: L1940717-74 Client ID: B-07 (1-2)						
Solids, Total	91.2	92.3	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 121-122,125-126,129-130,137-141,143 QC Batch ID: WG1281447-1 QC Sample: L1940717-121 Client ID: C-06 (1-2)						
Solids, Total	95.2	95.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 15,18,23,27,44,50,55,113,139-140 QC Batch ID: WG1281496-2 QC Sample: L1940717-113 Client ID: B-05 (1-3)						
Oxidation/Reduction Potential	140	140	mv	0		20
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 QC Batch ID: WG1281961-2 QC Sample: L1940717-11 Client ID: SB-4 (1-2)						
pH (H)	5.7	5.8	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 QC Batch ID: WG1281998-2 QC Sample: L1940717-11 Client ID: SB-4 (1-2)						
Oxidation/Reduction Potential	140	140	mv	0		20



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-01A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-02A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-03A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-04A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-05A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-06A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-07A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-08A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-09A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-100A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-101A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-101B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-101C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-101D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-101E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-101F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-101G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-102A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-103A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-104A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

Project Name: TOMBARELLO SITE

Project Number: 17001426

WM Profile No. 497552NH

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-105A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-105B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-105C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-105E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-105F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-105G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-106A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-107A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-108A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-109A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-10A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-110A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-111A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-112A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-113A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-113B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-113C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-113D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-113E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-113E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE

WM Profile No. 497552NH

Serial_No:09201912:30

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-113E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-113F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-113G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-113G1	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-113G2	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		EPH-DELUX-10(14)
L1940717-114A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-115A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-115B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-115C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-115D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-115E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-115F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-115G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-116A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-117A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-118A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-119A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-11A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-11B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-11C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-11D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE

WM Profile No. 497552NH

Serial_No:09201912:30

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-11F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-11G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-120A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-121A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-122A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-123A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-124A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-125A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-126A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-127A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-128A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-129A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-12A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-12B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-12C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-12D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-12E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-12F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-12G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-130A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-131A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-132A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-133A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-134A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-135A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-136A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE

Project Number: 17001426

WM Profile No. 497552NH

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-137A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-138A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-138F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-138G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-139B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-139C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-139D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-139E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-139E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-139E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-139F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-139G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139G1	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139G2	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-13A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)

Project Name: TOMBARELLO SITE

WM Profile No. 497552NH

Serial_No:09201912:30

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-140A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-140B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-140C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-140D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-140E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-140F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-140G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-141A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-142A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-143A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-143E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-143F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-143G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-144A	Vial MeOH preserved	A	NA		4.9	Y	Absent		ARCHIVE()
L1940717-144B	Vial MeOH preserved	B	NA		3.5	Y	Absent		ARCHIVE()
L1940717-144C	Vial water preserved	A	NA		4.9	Y	Absent	07-SEP-19 07:00	ARCHIVE()
L1940717-144D	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	ARCHIVE()
L1940717-14A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-15A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-15B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-15C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE
Project Number: 17001426

WM Profile No. 497552NH

Serial_No:09201912:30
Lab Number: L1940717
Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-15D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-15E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-15F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-15G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-16A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-17A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-17B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-17C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-17E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-17F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-17G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-18A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-18B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-18C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-18D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-18E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-18F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-18G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-19A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-20A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-21A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-21B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)

Project Name: TOMBARELLO SITE

Project Number: 17001426

WM Profile No. 497552NH

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-21C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-21E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-21F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-21G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),PH-9045(1),EPH-DELUX-10(14)
L1940717-22A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-23A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-23B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-23C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-23E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-23E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-23E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-23F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-23G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-23G1	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-23G2	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-24A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-24B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-24C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-24D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE

WM Profile No. 497552NH

Serial_No:09201912:30

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-24E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-24F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-24G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-25A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-26A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-27A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-27E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-27F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-27G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-28A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-29A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-30A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-31A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-32A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-33A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-34A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-35A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-36A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-37A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-38A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-39A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE

WM Profile No. 497552NH

Serial_No:09201912:30

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-40A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-41A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-42A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-43A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-44A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-44E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-44F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-44G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-45A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-45B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-45C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-45E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-45F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-45G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-46A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-47A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-48A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-49A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-50A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-50B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-50C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE

WM Profile No. 497552NH

Serial_No:09201912:30

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-50D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-50E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-50F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-50G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-51A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-52A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-53A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-54A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-55A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-55B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-55C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-55D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-55E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-55F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-55G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-56A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-56B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-56C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-56E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-56F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-56G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-57A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE
Project Number: 17001426

WM Profile No. 497552NH

Serial_No:09201912:30
Lab Number: L1940717
Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-58A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-59A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-60A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-61A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-62A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-63A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-64A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-65A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-66A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-67A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-68A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-69A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-70A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-71A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-72A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-73A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-74A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-75A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-76A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-77A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-78A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-79A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-80A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-81A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-82A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-83A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-84A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-85A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE
Project Number: 17001426

WM Profile No. 497552NH

Serial_No:09201912:30
Lab Number: L1940717
Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-86A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-87A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-88A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-89A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-90A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-91A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-92A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-93A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-94A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-95A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-96A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-97A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-98A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-99A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19

GLOSSARY

Acronyms

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

Footnotes

Report Format: Data Usability Report

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19

- 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.

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 68 Annual Book of ASTM (American Society for Testing and Materials) Standards following extraction by SW-846 EPA Method 9045C under the requirements of MADEP BWSC, WSC-CAM-VIB. August 2004.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIB, July 2010.
- 98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

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Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Creder Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederllc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/17

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables - GET - EFWEDD

Billing Information

Same as Client info PO #: 17001426

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Preservation
 Lab to do
 Lab to do
 (Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-11	SB-4 (1-2)	9.4.19	0850	Soil	SF
-12	SB-4 (2-3)		0840		
-13	SB-4 (3-5)		0905		
-14	SB-4 (5-7) -1		0900		
-15	SB-4 (5-7) -2		0900		
-16	SB-3 (0-0.5)		0920		
-17	SB-3 (1-2)		0925		
-18	SB-3 (2-3)		0930		
-19	SB-3 (3-5)		0935		
-20	SB-3 (5-7) -1		0940		

Hold SB-4 (5-7) -1 pending approval
 Hold SB-3 (5-7) pending approval
 Some samples with 7 bottles indicated may be missing total solids jar due to insufficient soil volume

Container Type jar
 Preservative - - - - -
 Relinquished By: [Signature] Date/Time: 9.6.19/11:30
 Received By: [Signature] Date/Time: 9/6/19 11:30

FORM NO: 01-010 (M) (Rev. 5-JAN-12)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 3 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax: Standard Rush (ONLY IF PRE-APPROVED)

Email: sgannon@credereillc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-21	SB-3 (5-7)-2	9.4.19	0940	Soil	SF
-22	SB-2 (0-0.5)		1000		
-23	SB-2 (1-2)		1005		
-24	SB-2 (2-3)		1007		
-25	SB-2 (3-5)		1015		
-26	SB-2 (5-7)-1		1020		
-27	SB-2 (5-7)-2		1020		
-28	E-07 (1-2)		1100		
-29	E-07 (2-3)		1103		
-30	E-07 (3-5)		1106		

Sample Specific Comments

- SB-2(1-2) includes volume for MS/MSD (metals)
 - SB-2(5-7)-1 hold pending approval.
 - All E-07 samples held for approval
 - Some samples with 7 bottles indicated maybe missing total solids jar due to insufficient soil volume.

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time:	Received By:	Date/Time:
<i>[Signature]</i>	9.6.19/1130	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9.6.19 1845
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9.6.19 2040

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CHAIN OF CUSTODY

PAGE 4 OF 5

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
TEL: 508-898-9220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Crede Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederellc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING

Filtration

Done

Not Needed

Lab to do

Preservation

Lab to do

(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-31	E-07 (5-7)	9-4-19	1109	Soil	SG
-32	E-08 (1-2)		1125		
-33	E-08 (2-3)		1130		
-34	E-08 (3-5)		1135		
-35	E-08 (5-7)		1140		
-36	D-08 (1-2)		1153		
-37	D-08 (2-3)		1156		
-38	D-08 (3-5)		1159		
-39	D-08 (5-7)		1203		
-40	D-07 (1-2)		1212		

Hold for approval: E-07(5-7), E-08(3-5), E-08(5-7), All D-08 samples

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9-6-19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9-6-19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

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CHAIN OF CUSTODY

PAGE 6 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credere.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Preservation
 Lab to do
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-51	E-06 (1-2)	9.4.19	1322	Soil	SF
-52	E-06 (2-3)		1326		
-53	E-06 (3-5)		1328		
-54	E-06 (5-7)-1		1335		
-55	E-06 (1-3)		1324		
-56	E-06 (5-7)-2		1335		
-57	E-05 (1-2)		1410		
-58	E-05 (2-3)		1412		
-59	E-05 (3-5)		1414		
-60	E-05 (5-7)		1416		

Sample Specific Comments

Hold
Hold
Hold
Hold

Hold: E-06 (3-5), E-06 (5-7)-1, E-05 (3-5), E-05 (5-7)
 Some samples with 7 bottles indicated may be missing totals solids jar due to insufficient soil volume

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1844	<i>[Signature]</i>	9/6/19 1844
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 7 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Crede Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederellc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEE_EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-61	SB-DUP-6	9-4-19	-	Soil	SF
-62	D-05 (1-2)		1430		
-63	D-05 (2-3)		1433		
-64	D-05 (3-5)		1436		
-65	D-05 (5-7)		1439		
-66	D-09 (1-2)		1450		
-67	D-09 (2-3)		1453		
-68	D-09 (3-5)		1456		
-69	D-09 (5-7)		1459		
-76	B-06 (1-2)		1515		

Hold: All D-05; D-09 (3-5, 5-7), B-06

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
Rob Maca	9/6/19	Rob Maca	9.6.19 1845

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-011-HUJ
 (Rev. 9-JAN-12)



CHAIN OF CUSTODY

PAGE 8 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-8300
FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credereilc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL

ADEx Add'l Deliverables

Same as Client info PO #: 17001426

GEI-EFWED

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs														
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING
Filtration
 Done
 Not Needed
Preservation
 Lab to do
 Lab to do
(Please specify below)

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-71	B-06 (2-3)	9.4.19	1518	Soil	SF
-72	B-06 (3-5)		1521		
-73	B-06 (5-7)		1524		
-74	B-07 (1-2)		1527		
-75	B-07 (2-3)		1529		
-76	B-07 (3-5)		1531		
-77	B-07 (5-7)		1533		
-78	C-07 (1-2)	9.5.19	0825		
-79	C-07 (2-3)		0830		
-80	C-07 (3-5)		0835		

Hold all B-06 pending approval
B-07 (3-5, 5-7), all C-07

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

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CHAIN OF CUSTODY

PAGE 9 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Crede Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederellc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab:

ALPHA Job #:

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-81	C-07(5-7)	9.5.19	0840	Soil	SF
-82	A-07(1-2)		0853		
-83	A-07(2-3)		0856		
-84	A-07(3-5)		0859		
-85	A-07(5-7)		0902		
-86	C-08(1-2)		0908		
-87	C-08(2-3)		0911		
-88	C-08(3-5)		0914		
-89	C-08(5-7)		0917		
-90	SB-DUP-4				

Hold for approval: C-07(5-7), all A-07 samples, C-08(3-5), C-08(5-7).

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1841	<i>[Signature]</i>	9.6.19 1841
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9-6-19 2040

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FORM NO: 01-01(14J)
 (rev. 5-JAN-12)



CHAIN OF CUSTODY

PAGE 10 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credere.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
4077-91	B-08 (1-2)	9-5-19	0928	Soil	SF
-92	B-08 (2-3)		0930		
-93	B-08 (3-5)		0932		
-94	B-08 (5-7)		0934		
-95	C-09 (1-2)		0940		
-96	C-09 (2-3)		0942		
-97	C-09 (3-5)		0944		
-98	C-09 (5-7)		0946		
-99	B-09 (1-2)		0953		
-100	SB-DUP -3				

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1842	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9-6-19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO. 01-01(LN1)
(rev. 5-JAN-12)



CHAIN OF CUSTODY

PAGE 11 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Creder Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederllc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/16/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-101	B-09(1-3)	9.5.19	0954	Soil	SF
-102	B-09(2-3)		0955		
-103	B-09(3-5)		0957		
-104	B-09(5-7)-1		0959		
-105	B-09(5-7)-2		1002		
-106	A-06(1-2)		1033		
-107	A-06(2-3)		1036		
-108	A-06(3-5)		1039		
-109	A-06(5-7)		1042		
-110	SB-DUP-2				

- Hold for approval: B-09(3-5, 5-7)
 - B-09(5-7)-2 no total solids as due to insufficient soil volume

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1138	<i>[Signature]</i>	9/6/19 11:30
<i>[Signature]</i>	9/6/19 1841	<i>[Signature]</i>	9/6/19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2140

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 91-2(1-HZ) (rev. 8-JAN-12)



CHAIN OF CUSTODY

PAGE 2 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

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Phone: 207-828-1272

Fax:

Email: sgannon@credereilc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-111	A-05 B-05(1-2)	9-5-19	1048	Soil	S.F
-112	B-05(2-3)		1051		
-113	B-05(1-3)		1054		
-114	B-05(3-5)-1		1057		
-115	B-05(3-5)-2		1057		
-116	B-05(5-7)		1100		
-117	C-05(1-2)		1112		
-118	C-05(2-3)		1115		
-119	C-05(3-5)		1118		
-120	C-05(5-7)		1121		

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Hold for approval: B-05(3-5)-1, B-05(5-7), C-05(3-5), C-05(5-7)
 - B-05(1-3) includes variance for MS/MSD (metals)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9-6-19/1842	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9-6-19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

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CHAIN OF CUSTODY

PAGE 13 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/16/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI - EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-121	C-06 (1-2)	9.5.19	1132	Soil	SF
-122	C-06 (2-3)		1134		
-123	C-06 (3-5)		1136		
-124	C-06 (5-7)		1138		
-125	A-05 (1-2)		1212		
-126	A-05 (2-3)		1214		
-127	A-05 (3-5)		1216		
-128	A-05 (5-7)		1218		
-129	E-02 (1-2)		1305		
-130	E-02 (2-3)		1308		

-Hold for approval: C-06 (3-5, 5-7)

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1841	<i>[Signature]</i>	9.6.19 1845
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9-6-19 2040

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CHAIN OF CUSTODY

PAGE 14 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credereassoc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L19407M

Report Information Data Deliverables Billing Information

FAX EMAIL Same as Client info PO #: 17001426
 ADEX Add'l Deliverables - GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs							SAMPLE HANDLING Filtration <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not Needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)	TOTAL # BOTTLES
		Date	Time																
40717-131	E-02 (3-5)	9.5.19	1311	Soil	SF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-132	E-02 (5-7)		1314			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-133	B-04 (1-2)		1320			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-134	B-04 (2-3)		1323			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
+135	B-04 (3-5)		1326			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-136	B-04 (5-7)		1329			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-137	SB-1 (0-0.5)		1333			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
-138	SB-1 (1-2)		1336			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7
-139	SB-1 (2-3)		1339			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MS/MSD	11
-140	SB-DV0-1					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7

- Hold for approval: E-02 (3-5, 5-7)
 - SB-1 (2-3) include;
 volume for MS/MSD (metals)

Container Type - - - - -
 Preservative - - - - -

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.5.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9/6/19 1845
<i>[Signature]</i>	9/6/19 2040	<i>[Signature]</i>	9-6-19 2040

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CHAIN OF CUSTODY

PAGE 15 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

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 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credere.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19 ALPHA Job #: L1940717

Report Information Data Deliverables Billing Information

FAX EMAIL Same as Client Info PO #: 17001426

ADEx Add'l Deliverables - GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program	Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs											SAMPLE HANDLING	TOTAL # BOTTLES	
						Filtration	Done	Not Needed	Lab to do	Preservation	Lab to do	(Please specify below)						
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-141	58-1(3-5)	9.5.19	1342	Soil	SF
-142	58-1(5-7)-1		1345		
-143	58-1(5-7)-2		1348		

281
 - 58-1(3-5) 58-1(5-7) only analyzed for PCBs
 - Hold for approval: 58-1(5-7)

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9/6/19 11:32	ALP	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	R. M...	9/6/19 1845
<i>[Signature]</i>	9/6/19 2040	<i>[Signature]</i>	9/6/19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Method Blank Summary
Form 4
Volatiles

Client	: Credere Associates, LLC	Lab Number	: L1940717
Project Name	: TOMBARELLO SITE	Project Number	: 17001426
Lab Sample ID	: WG1284565-5	Lab File ID	: V23190914A05
Instrument ID	: VOA123		
Matrix	: SOIL	Analysis Date	: 09/14/19 09:00

Client Sample No.	Lab Sample ID	Analysis Date
WG1284565-3LCS	WG1284565-3	09/14/19 07:24
WG1284565-4LCSD	WG1284565-4	09/14/19 07:48
SB-2 (5-7)-2	L1940717-27	09/14/19 16:15
D-07 (1-3)	L1940717-44	09/14/19 16:39
D-07 (7-9)	L1940717-45	09/14/19 17:03

Method Blank Summary

Form 4

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Lab Sample ID : WG1284397-5
Instrument ID : VOA117
Matrix : SOIL
Lab Number : L1940717
Project Number : 17001426
Lab File ID : V17190914A05
Analysis Date : 09/14/19 09:06

Client Sample No.	Lab Sample ID	Analysis Date
WG1284397-3LCS	WG1284397-3	09/14/19 07:48
WG1284397-4LCSD	WG1284397-4	09/14/19 08:14
SB-4 (5-7)-2	L1940717-15	09/14/19 13:27
SB-3 (1-2)	L1940717-17	09/14/19 13:53
SB-2 (1-2)	L1940717-23	09/14/19 15:11

Method Blank Summary
Form 4
Volatiles

Client	: Credere Associates, LLC	Lab Number	: L1940717
Project Name	: TOMBARELLO SITE	Project Number	: 17001426
Lab Sample ID	: WG1284521-5	Lab File ID	: V17190915A05
Instrument ID	: VOA117		
Matrix	: SOIL	Analysis Date	: 09/15/19 14:14

Client Sample No.	Lab Sample ID	Analysis Date
WG1284521-3LCS	WG1284521-3	09/15/19 12:56
WG1284521-4LCSD	WG1284521-4	09/15/19 13:22
SB-4 (5-7)-2	L1940717-15	09/15/19 17:18

Method Blank Summary

Form 4

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Lab Sample ID : WG1284519-5
Instrument ID : VOA117
Matrix : SOIL
Lab Number : L1940717
Project Number : 17001426
Lab File ID : V17190915A05
Analysis Date : 09/15/19 14:14

Client Sample No.	Lab Sample ID	Analysis Date
WG1284519-3LCS	WG1284519-3	09/15/19 12:56
WG1284519-4LCSD	WG1284519-4	09/15/19 13:22
SB-2 (2-3)	L1940717-24	09/15/19 15:07
SB-3 (5-7)-2	L1940717-21	09/15/19 15:33
SB-2 (1-2)	L1940717-23R	09/15/19 15:59

Method Blank Summary Form 4 Volatiles

Client : Credere Associates, LLC Project Name : TOMBARELLO SITE Lab Sample ID : WG1284598-5 Instrument ID : VOA123 Matrix : SOIL	Lab Number : L1940717 Project Number : 17001426 Lab File ID : V23190915A04 Analysis Date : 09/15/19 17:36
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Client Sample No.	Lab Sample ID	Analysis Date
WG1284598-3LCS	WG1284598-3	09/15/19 16:24
WG1284598-4LCSD	WG1284598-4	09/15/19 16:48
SB-4 (1-2)	L1940717-11	09/15/19 20:33
SB-1 (1-2)	L1940717-138	09/15/19 20:57
SB-1 (2-3)	L1940717-139	09/15/19 21:21
E-06 (1-3)	L1940717-55	09/15/19 21:45
E-06 (5-7)-2	L1940717-56	09/15/19 22:09
SB-1 (5-7)-2	L1940717-143	09/15/19 22:33
B-05 (3-5)-2	L1940717-115	09/15/19 22:57
B-09 (1-3)	L1940717-101	09/16/19 01:46

Method Blank Summary

Form 4

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Lab Sample ID : WG1284596-5
Instrument ID : VOA123
Matrix : SOIL
Lab Number : L1940717
Project Number : 17001426
Lab File ID : V23190915A04
Analysis Date : 09/15/19 17:36

Client Sample No.	Lab Sample ID	Analysis Date
WG1284596-3LCS	WG1284596-3	09/15/19 16:24
WG1284596-4LCSD	WG1284596-4	09/15/19 16:48
B-05 (1-3)	L1940717-113	09/15/19 18:32
SB-4 (2-3)	L1940717-12	09/15/19 19:20
SB-DUP-5	L1940717-50	09/15/19 19:44

Method Blank Summary
Form 4
Volatiles

Client	: Crede Associates, LLC	Lab Number	: L1940717
Project Name	: TOMBARELLO SITE	Project Number	: 17001426
Lab Sample ID	: WG1284780-5	Lab File ID	: V23190916A04
Instrument ID	: VOA123		
Matrix	: SOIL	Analysis Date	: 09/16/19 08:09

Client Sample No.	Lab Sample ID	Analysis Date
WG1284780-3LCS	WG1284780-3	09/16/19 06:56
WG1284780-4LCSD	WG1284780-4	09/16/19 07:20
D-07 (1-3)	L1940717-44	09/16/19 09:21

Method Blank Summary

Form 4

Volatiles

Client : Crede Associates, LLC
Project Name : TOMBARELLO SITE
Lab Sample ID : WG1284781-5
Instrument ID : VOA123
Matrix : SOIL

Lab Number : L1940717
Project Number : 17001426
Lab File ID : V23190916A04
Analysis Date : 09/16/19 08:09

Client Sample No.	Lab Sample ID	Analysis Date
WG1284781-3LCS	WG1284781-3	09/16/19 06:56
WG1284781-4LCSD	WG1284781-4	09/16/19 07:20
SB-3 (2-3)	L1940717-18	09/16/19 09:45
B-09 (5-7)-2	L1940717-105	09/16/19 10:09
SB-DUP-1	L1940717-140	09/16/19 10:33

Method Blank Summary
Form 4
Volatiles

Client	: Credere Associates, LLC	Lab Number	: L1940717
Project Name	: TOMBARELLO SITE	Project Number	: 17001426
Lab Sample ID	: WG1284929-5	Lab File ID	: V23190916N04
Instrument ID	: VOA123		
Matrix	: SOIL	Analysis Date	: 09/16/19 20:21

Client Sample No.	Lab Sample ID	Analysis Date
WG1284929-3LCS	WG1284929-3	09/16/19 19:09
WG1284929-4LCSD	WG1284929-4	09/16/19 19:33
SB-1 (1-2)	L1940717-138	09/16/19 20:46
SB-1 (5-7)-2	L1940717-143	09/16/19 21:10

Method Blank Summary
Form 4
Volatiles

Client	: Credere Associates, LLC	Lab Number	: L1940717
Project Name	: TOMBARELLO SITE	Project Number	: 17001426
Lab Sample ID	: WG1285102-5	Lab File ID	: V23190917A05
Instrument ID	: VOA123		
Matrix	: SOIL	Analysis Date	: 09/17/19 09:02

Client Sample No.	Lab Sample ID	Analysis Date
WG1285102-3LCS	WG1285102-3	09/17/19 07:26
WG1285102-4LCSD	WG1285102-4	09/17/19 07:50
SB-2 (5-7)-2	L1940717-27	09/17/19 12:15

Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190914A01
 Sample No : WG1284565-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	80	-.01
Dichlorodifluoromethane	0.268	0.268	-	0	20	68	0
Chloromethane	0.275	0.309	-	-12.4	20	78	0
Vinyl chloride	0.312	0.296	-	5.1	20	64	0
Bromomethane	0.233	0.23	-	1.3	20	74	0
Chloroethane	0.235	0.204	-	13.2	20	62	0
Trichlorofluoromethane	0.429	0.407	-	5.1	20	64	0
Ethyl ether	0.143	0.115	-	19.6	20	57	0
1,1-Dichloroethene	0.214	0.196	-	8.4	20	63	0
Carbon disulfide	0.725	0.638	-	12	20	64	0
Freon-113	0.216	0.201	-	6.9	20	63	0
Acrolein	0.05	0.044*	-	12	20	65	-.01
Methylene chloride	0.28	0.222	-	20.7*	20	61	0
Acetone	20	20.299	-	-1.5	20	73	-.02
trans-1,2-Dichloroethene	0.245	0.225	-	8.2	20	64	0
Methyl acetate	0.187	0.182	-	2.7	20	69	-.02
Methyl tert-butyl ether	0.725	0.57	-	21.4*	20	55	-.01
tert-Butyl alcohol	0.038	0.028*	-	26.3*	20	53	-.01
Diisopropyl ether	0.748	0.766	-	-2.4	20	72	-.01
1,1-Dichloroethane	0.436	0.409	-	6.2	20	65	-.01
Halothane	0.182	0.164	-	9.9	20	61	-.01
Acrylonitrile	0.093	0.084	-	9.7	20	63	-.01
Ethyl tert-butyl ether	0.763	0.657	-	13.9	20	61	-.02
Vinyl acetate	0.662	0.65	-	1.8	20	70	-.01
cis-1,2-Dichloroethene	0.275	0.243	-	11.6	20	62	-.01
2,2-Dichloropropane	0.366	0.333	-	9	20	63	0
Bromochloromethane	0.134	0.119	-	11.2	20	62	-.01
Cyclohexane	0.39	0.372	-	4.6	20	65	0
Chloroform	0.43	0.395	-	8.1	20	64	-.01
Ethyl acetate	0.3	0.275	-	8.3	20	66	-.02
Carbon tetrachloride	0.331	0.31	-	6.3	20	64	-.01
Tetrahydrofuran	0.106	0.101	-	4.7	20	68	-.02
Dibromofluoromethane	0.262	0.249	-	5	20	75	0
1,1,1-Trichloroethane	0.365	0.352	-	3.6	20	64	-.01
2-Butanone	0.139	0.123	-	11.5	20	69	-.02
1,1-Dichloropropene	0.318	0.291	-	8.5	20	61	-.01
Benzene	0.959	0.855	-	10.8	20	61	-.01
tert-Amyl methyl ether	0.734	0.563	-	23.3*	20	54	-.02
1,2-Dichloroethane-d4	0.29	0.281	-	3.1	20	80	-.01
1,2-Dichloroethane	0.342	0.307	-	10.2	20	64	-.02
Methyl cyclohexane	0.415	0.346	-	16.6	20	57	-.01
Trichloroethene	0.249	0.226	-	9.2	20	62	-.01
Dibromomethane	0.164	0.14	-	14.6	20	61	-.02

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190914A01
 Sample No : WG1284565-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.228	-	10.2	20	62	0
2-Chloroethyl vinyl ether	0.185	0.151	-	18.4	20	57	-0.01
Bromodichloromethane	0.327	0.298	-	8.9	20	63	-0.02
1,4-Dioxane	0.00343	0.00331*	-	3.5	20	71	-0.02
cis-1,3-Dichloropropene	0.404	0.353	-	12.6	20	60	0
Chlorobenzene-d5	1	1	-	0	20	77	-0.02
Toluene-d8	1.211	1.232	-	-1.7	20	78	-0.02
Toluene	0.75	0.687	-	8.4	20	62	-0.02
4-Methyl-2-pentanone	0.137	0.109	-	20.4*	20	55	-0.02
Tetrachloroethene	0.306	0.286	-	6.5	20	60	-0.02
trans-1,3-Dichloropropene	0.447	0.403	-	9.8	20	60	-0.02
Ethyl methacrylate	0.415	0.312	-	24.8*	20	51	-0.02
1,1,2-Trichloroethane	0.237	0.203	-	14.3	20	58	-0.01
Chlorodibromomethane	0.311	0.284	-	8.7	20	61	-0.02
1,3-Dichloropropane	0.475	0.405	-	14.7	20	57	-0.01
1,2-Dibromoethane	0.286	0.248	-	13.3	20	58	-0.01
2-Hexanone	0.245	0.221	-	9.8	20	63	-0.02
Chlorobenzene	0.845	0.78	-	7.7	20	62	-0.02
Ethylbenzene	1.401	1.308	-	6.6	20	62	-0.02
1,1,1,2-Tetrachloroethane	0.297	0.282	-	5.1	20	62	0
p/m Xylene	0.545	0.519	-	4.8	20	63	-0.02
o Xylene	0.539	0.497	-	7.8	20	62	-0.02
Styrene	0.876	0.815	-	7	20	61	-0.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	79	-0.01
Bromoform	0.424	0.341	-	19.6	20	61	-0.02
Isopropylbenzene	2.578	2.412	-	6.4	20	63	-0.02
4-Bromofluorobenzene	0.913	0.881	-	3.5	20	76	-0.01
Bromobenzene	0.679	0.586	-	13.7	20	60	-0.02
n-Propylbenzene	3.032	2.88	-	5	20	63	-0.01
1,4-Dichlorobutane	0.91	0.833	-	8.5	20	65	-0.01
1,1,2,2-Tetrachloroethane	0.726	0.612	-	15.7	20	56	-0.01
4-Ethyltoluene	2.552	2.377	-	6.9	20	62	0
2-Chlorotoluene	2.106	1.976	-	6.2	20	64	-0.01
1,3,5-Trimethylbenzene	2.162	2.036	-	5.8	20	64	-0.02
1,2,3-Trichloropropane	0.612	0.505	-	17.5	20	58	-0.02
trans-1,4-Dichloro-2-buten	0.212	0.203	-	4.2	20	66	0
4-Chlorotoluene	1.897	1.794	-	5.4	20	65	-0.01
tert-Butylbenzene	1.876	1.735	-	7.5	20	62	-0.01
1,2,4-Trimethylbenzene	2.172	2.053	-	5.5	20	64	-0.02
sec-Butylbenzene	2.799	2.659	-	5	20	63	-0.01
p-Isopropyltoluene	2.388	2.268	-	5	20	63	-0.02
1,3-Dichlorobenzene	1.306	1.21	-	7.4	20	64	-0.01
1,4-Dichlorobenzene	1.32	1.21	-	8.3	20	64	-0.01

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190914A01
 Sample No : WG1284565-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.335	-	8.9	20	62	-.01
n-Butylbenzene	2.231	2.186	-	2	20	65	-.01
1,2-Dichlorobenzene	1.255	1.122	-	10.6	20	62	-.01
1,2,4,5-Tetramethylbenzene	2.325	2.074	-	10.8	20	61	-.01
1,2-Dibromo-3-chloropropan	0.136	0.101	-	25.7*	20	54	-.01
1,3,5-Trichlorobenzene	0.913	0.842	-	7.8	20	63	-.01
Hexachlorobutadiene	0.428	0.367	-	14.3	20	59	-.01
1,2,4-Trichlorobenzene	0.862	0.789	-	8.5	20	63	-.01
Naphthalene	2.486	2.034	-	18.2	20	56	-.01
1,2,3-Trichlorobenzene	0.842	0.734	-	12.8	20	60	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190914A02
 Sample No : WG1284397-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:48
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	51	0
Dichlorodifluoromethane	0.158	0.241	-	-52.5*	20	76	0
Chloromethane	0.23	0.305	-	-32.6*	20	72	0
Vinyl chloride	0.21	0.199	-	5.2	20	49	0
Bromomethane	0.135	0.107	-	20.7*	20	46	0
Chloroethane	0.13	0.108	-	16.9	20	45	0
Trichlorofluoromethane	0.261	0.345	-	-32.2*	20	68	0
Ethyl ether	0.092	0.071	-	22.8*	20	41	0
1,1-Dichloroethene	0.198	0.172	-	13.1	20	45	0
Carbon disulfide	0.66	0.563	-	14.7	20	46	0
Freon-113	0.194	0.189	-	2.6	20	49	0
Acrolein	0.03	0.024*	-	20	20	43	0
Methylene chloride	0.219	0.201	-	8.2	20	49	0
Acetone	20	22.413	-	-12.1	20	52	0
trans-1,2-Dichloroethene	0.229	0.217	-	5.2	20	50	0
Methyl acetate	0.094	0.101	-	-7.4	20	61	0
Methyl tert-butyl ether	0.503	0.52	-	-3.4	20	53	0
tert-Butyl alcohol	0.017	0.016*	-	5.9	20	47	0
Diisopropyl ether	0.721	0.75	-	-4	20	53	0
1,1-Dichloroethane	0.421	0.458	-	-8.8	20	57	0
Halothane	0.188	0.166	-	11.7	20	46	0
Acrylonitrile	0.044	0.049*	-	-11.4	20	58	0
Ethyl tert-butyl ether	0.703	0.725	-	-3.1	20	53	0
Vinyl acetate	0.414	0.451	-	-8.9	20	55	0
cis-1,2-Dichloroethene	0.247	0.251	-	-1.6	20	54	0
2,2-Dichloropropane	0.376	0.435	-	-15.7	20	61	0
Bromochloromethane	0.098	0.104	-	-6.1	20	55	0
Cyclohexane	0.393	0.429	-	-9.2	20	56	0
Chloroform	0.417	0.486	-	-16.5	20	60	0
Ethyl acetate	0.153	0.159	-	-3.9	20	55	0
Carbon tetrachloride	0.334	0.424	-	-26.9*	20	65	0
Tetrahydrofuran	20	22.839	-	-14.2	20	53	0
Dibromofluoromethane	0.245	0.256	-	-4.5	20	52	0
1,1,1-Trichloroethane	0.382	0.463	-	-21.2*	20	63	0
2-Butanone	20	22.643	-	-13.2	20	61	0
1,1-Dichloropropene	0.316	0.333	-	-5.4	20	55	0
Benzene	0.93	0.911	-	2	20	53	0
tert-Amyl methyl ether	0.589	0.551	-	6.5	20	48	0
1,2-Dichloroethane-d4	0.249	0.307	-	-23.3*	20	63	0
1,2-Dichloroethane	0.268	0.36	-	-34.3*	20	69	0
Methyl cyclohexane	0.395	0.386	-	2.3	20	50	0
Trichloroethene	0.248	0.261	-	-5.2	20	57	0
Dibromomethane	0.112	0.128	-	-14.3	20	58	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190914A02
 Sample No : WG1284397-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:48
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.246	-	-8.4	20	57	0
2-Chloroethyl vinyl ether	0.109	0.111	-	-1.8	20	51	0
Bromodichloromethane	0.312	0.353	-	-13.1	20	60	0
1,4-Dioxane	0.00149	0.0013*	-	12.8	20	46	0
cis-1,3-Dichloropropene	0.358	0.379	-	-5.9	20	56	0
Chlorobenzene-d5	1	1	-	0	20	57	0
Toluene-d8	1.374	1.244	-	9.5	20	52	0
Toluene	0.82	0.789	-	3.8	20	57	0
4-Methyl-2-pentanone	0.079	0.078*	-	1.3	20	54	0
Tetrachloroethene	0.328	0.332	-	-1.2	20	59	0
trans-1,3-Dichloropropene	0.414	0.425	-	-2.7	20	59	0
Ethyl methacrylate	0.316	0.262	-	17.1	20	49	0
1,1,2-Trichloroethane	0.186	0.184	-	1.1	20	57	0
Chlorodibromomethane	0.279	0.294	-	-5.4	20	62	0
1,3-Dichloropropane	0.389	0.386	-	0.8	20	57	0
1,2-Dibromoethane	0.215	0.213	-	0.9	20	57	0
2-Hexanone	0.142	0.124	-	12.7	20	51	0
Chlorobenzene	0.904	0.88	-	2.7	20	59	0
Ethylbenzene	1.578	1.604	-	-1.6	20	59	0
1,1,1,2-Tetrachloroethane	0.315	0.327	-	-3.8	20	63	0
p/m Xylene	0.614	0.612	-	0.3	20	59	0
o Xylene	0.596	0.584	-	2	20	58	0
Styrene	0.957	0.942	-	1.6	20	58	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	68	0
Bromoform	0.312	0.316	-	-1.3	20	68	0
Isopropylbenzene	3.228	2.814	-	12.8	20	60	0
4-Bromofluorobenzene	1.085	0.913	-	15.9	20	57	0
Bromobenzene	0.692	0.636	-	8.1	20	63	0
n-Propylbenzene	3.81	3.41	-	10.5	20	62	0
1,4-Dichlorobutane	0.842	0.808	-	4	20	67	0
1,1,2,2-Tetrachloroethane	0.56	0.497	-	11.3	20	62	0
4-Ethyltoluene	3.347	2.817	-	15.8	20	59	0
2-Chlorotoluene	2.218	2.031	-	8.4	20	64	0
1,3,5-Trimethylbenzene	2.697	2.458	-	8.9	20	63	0
1,2,3-Trichloropropane	0.423	0.412	-	2.6	20	67	0
trans-1,4-Dichloro-2-buten	0.159	0.159	-	0	20	68	0
4-Chlorotoluene	2.339	2.116	-	9.5	20	63	0
tert-Butylbenzene	2.305	2.069	-	10.2	20	62	0
1,2,4-Trimethylbenzene	2.653	2.431	-	8.4	20	64	0
sec-Butylbenzene	3.508	3.195	-	8.9	20	63	0
p-Isopropyltoluene	2.943	2.695	-	8.4	20	63	0
1,3-Dichlorobenzene	1.397	1.354	-	3.1	20	67	0
1,4-Dichlorobenzene	1.386	1.341	-	3.2	20	68	0

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190914A02
 Sample No : WG1284397-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:48
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.837	1.558	-	15.2	20	59	0
n-Butylbenzene	2.767	2.652	-	4.2	20	66	0
1,2-Dichlorobenzene	1.247	1.203	-	3.5	20	67	0
1,2,4,5-Tetramethylbenzene	2.774	2.346	-	15.4	20	59	0
1,2-Dibromo-3-chloropropan	0.076	0.074	-	2.6	20	66	0
1,3,5-Trichlorobenzene	1.032	0.953	-	7.7	20	65	0
Hexachlorobutadiene	0.472	0.451	-	4.4	20	67	0
1,2,4-Trichlorobenzene	0.835	0.819	-	1.9	20	68	0
Naphthalene	1.699	1.485	-	12.6	20	61	0
1,2,3-Trichlorobenzene	0.731	0.719	-	1.6	20	69	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284519-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	73	0
Dichlorodifluoromethane	0.158	0.223	-	-41.1*	20	101	0
Chloromethane	0.23	0.296	-	-28.7*	20	100	0
Vinyl chloride	0.21	0.217	-	-3.3	20	76	0
Bromomethane	0.135	0.121	-	10.4	20	75	0
Chloroethane	0.13	0.123	-	5.4	20	74	0
Trichlorofluoromethane	0.261	0.334	-	-28*	20	95	0
Ethyl ether	0.092	0.074	-	19.6	20	62	0
1,1-Dichloroethene	0.198	0.185	-	6.6	20	69	0
Carbon disulfide	0.66	0.596	-	9.7	20	69	0
Freon-113	0.194	0.196	-	-1	20	74	0
Acrolein	0.03	0.028*	-	6.7	20	70	0
Methylene chloride	0.219	0.211	-	3.7	20	75	0
Acetone	20	22.121	-	-10.6	20	73	0
trans-1,2-Dichloroethene	0.229	0.218	-	4.8	20	72	0
Methyl acetate	0.094	0.098*	-	-4.3	20	85	0
Methyl tert-butyl ether	0.503	0.494	-	1.8	20	72	0
tert-Butyl alcohol	0.017	0.016*	-	5.9	20	66	0
Diisopropyl ether	0.721	0.722	-	-0.1	20	74	0
1,1-Dichloroethane	0.421	0.447	-	-6.2	20	80	0
Halothane	0.188	0.17	-	9.6	20	69	0
Acrylonitrile	0.044	0.049*	-	-11.4	20	85	0
Ethyl tert-butyl ether	0.703	0.685	-	2.6	20	71	0
Vinyl acetate	0.414	0.428	-	-3.4	20	75	0
cis-1,2-Dichloroethene	0.247	0.245	-	0.8	20	75	0
2,2-Dichloropropane	0.376	0.387	-	-2.9	20	78	0
Bromochloromethane	0.098	0.101	-	-3.1	20	77	0
Cyclohexane	0.393	0.436	-	-10.9	20	82	0
Chloroform	0.417	0.435	-	-4.3	20	77	0
Ethyl acetate	0.153	0.154	-	-0.7	20	77	0
Carbon tetrachloride	0.334	0.366	-	-9.6	20	81	0
Tetrahydrofuran	20	23.627	-	-18.1	20	79	0
Dibromofluoromethane	0.245	0.245	-	0	20	72	0
1,1,1-Trichloroethane	0.382	0.408	-	-6.8	20	80	0
2-Butanone	20	22.25	-	-11.3	20	86	0
1,1-Dichloropropene	0.316	0.325	-	-2.8	20	77	0
Benzene	0.93	0.909	-	2.3	20	77	0
tert-Amyl methyl ether	0.589	0.536	-	9	20	67	0
1,2-Dichloroethane-d4	0.249	0.253	-	-1.6	20	74	0
1,2-Dichloroethane	0.268	0.302	-	-12.7	20	84	0
Methyl cyclohexane	0.395	0.399	-	-1	20	74	0
Trichloroethene	0.248	0.254	-	-2.4	20	80	0
Dibromomethane	0.112	0.122	-	-8.9	20	80	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284519-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.248	-	-9.3	20	82	0
2-Chloroethyl vinyl ether	0.109	0.108	-	0.9	20	71	0
Bromodichloromethane	0.312	0.325	-	-4.2	20	80	0
1,4-Dioxane	0.00149	0.00131*	-	12.1	20	66	0
cis-1,3-Dichloropropene	0.358	0.367	-	-2.5	20	78	0
Chlorobenzene-d5	1	1	-	0	20	79	0
Toluene-d8	1.374	1.246	-	9.3	20	72	0
Toluene	0.82	0.787	-	4	20	79	0
4-Methyl-2-pentanone	0.079	0.078*	-	1.3	20	76	0
Tetrachloroethene	0.328	0.323	-	1.5	20	80	0
trans-1,3-Dichloropropene	0.414	0.407	-	1.7	20	78	0
Ethyl methacrylate	0.316	0.266	-	15.8	20	69	0
1,1,2-Trichloroethane	0.186	0.185	-	0.5	20	80	0
Chlorodibromomethane	0.279	0.28	-	-0.4	20	81	0
1,3-Dichloropropane	0.389	0.391	-	-0.5	20	81	0
1,2-Dibromoethane	0.215	0.214	-	0.5	20	81	0
2-Hexanone	0.142	0.122	-	14.1	20	71	0
Chlorobenzene	0.904	0.854	-	5.5	20	80	0
Ethylbenzene	1.578	1.539	-	2.5	20	79	0
1,1,1,2-Tetrachloroethane	0.315	0.309	-	1.9	20	83	0
p/m Xylene	0.614	0.588	-	4.2	20	79	0
o Xylene	0.596	0.562	-	5.7	20	78	0
Styrene	0.957	0.909	-	5	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Bromoform	0.312	0.311	-	0.3	20	84	0
Isopropylbenzene	3.228	2.917	-	9.6	20	78	0
4-Bromofluorobenzene	1.085	0.967	-	10.9	20	76	0
Bromobenzene	0.692	0.651	-	5.9	20	81	0
n-Propylbenzene	3.81	3.583	-	6	20	81	0
1,4-Dichlorobutane	0.842	0.824	-	2.1	20	86	0
1,1,2,2-Tetrachloroethane	0.56	0.529	-	5.5	20	83	0
4-Ethyltoluene	3.347	2.911	-	13	20	76	0
2-Chlorotoluene	2.218	2.084	-	6	20	82	0
1,3,5-Trimethylbenzene	2.697	2.49	-	7.7	20	81	0
1,2,3-Trichloropropane	0.423	0.42	-	0.7	20	85	0
trans-1,4-Dichloro-2-buten	0.159	0.156	-	1.9	20	84	0
4-Chlorotoluene	2.339	2.149	-	8.1	20	81	0
tert-Butylbenzene	2.305	2.109	-	8.5	20	79	0
1,2,4-Trimethylbenzene	2.653	2.451	-	7.6	20	81	0
sec-Butylbenzene	3.508	3.276	-	6.6	20	81	0
p-Isopropyltoluene	2.943	2.735	-	7.1	20	80	0
1,3-Dichlorobenzene	1.397	1.335	-	4.4	20	84	0
1,4-Dichlorobenzene	1.386	1.334	-	3.8	20	85	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284519-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.837	1.6	-	12.9	20	76	0
n-Butylbenzene	2.767	2.69	-	2.8	20	84	0
1,2-Dichlorobenzene	1.247	1.196	-	4.1	20	84	0
1,2,4,5-Tetramethylbenzene	2.774	2.344	-	15.5	20	74	0
1,2-Dibromo-3-chloropropan	0.076	0.073	-	3.9	20	82	0
1,3,5-Trichlorobenzene	1.032	0.949	-	8	20	81	0
Hexachlorobutadiene	0.472	0.446	-	5.5	20	83	0
1,2,4-Trichlorobenzene	0.835	0.827	-	1	20	87	0
Naphthalene	1.699	1.538	-	9.5	20	79	0
1,2,3-Trichlorobenzene	0.731	0.714	-	2.3	20	86	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284521-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	73	0
Dichlorodifluoromethane	0.158	0.223	-	-41.1*	20	101	0
Chloromethane	0.23	0.296	-	-28.7*	20	100	0
Vinyl chloride	0.21	0.217	-	-3.3	20	76	0
Bromomethane	0.135	0.121	-	10.4	20	75	0
Chloroethane	0.13	0.123	-	5.4	20	74	0
Trichlorofluoromethane	0.261	0.334	-	-28*	20	95	0
Ethyl ether	0.092	0.074	-	19.6	20	62	0
1,1-Dichloroethene	0.198	0.185	-	6.6	20	69	0
Carbon disulfide	0.66	0.596	-	9.7	20	69	0
Freon-113	0.194	0.196	-	-1	20	74	0
Acrolein	0.03	0.028*	-	6.7	20	70	0
Methylene chloride	0.219	0.211	-	3.7	20	75	0
Acetone	20	22.121	-	-10.6	20	73	0
trans-1,2-Dichloroethene	0.229	0.218	-	4.8	20	72	0
Methyl acetate	0.094	0.098*	-	-4.3	20	85	0
Methyl tert-butyl ether	0.503	0.494	-	1.8	20	72	0
tert-Butyl alcohol	0.017	0.016*	-	5.9	20	66	0
Diisopropyl ether	0.721	0.722	-	-0.1	20	74	0
1,1-Dichloroethane	0.421	0.447	-	-6.2	20	80	0
Halothane	0.188	0.17	-	9.6	20	69	0
Acrylonitrile	0.044	0.049*	-	-11.4	20	85	0
Ethyl tert-butyl ether	0.703	0.685	-	2.6	20	71	0
Vinyl acetate	0.414	0.428	-	-3.4	20	75	0
cis-1,2-Dichloroethene	0.247	0.245	-	0.8	20	75	0
2,2-Dichloropropane	0.376	0.387	-	-2.9	20	78	0
Bromochloromethane	0.098	0.101	-	-3.1	20	77	0
Cyclohexane	0.393	0.436	-	-10.9	20	82	0
Chloroform	0.417	0.435	-	-4.3	20	77	0
Ethyl acetate	0.153	0.154	-	-0.7	20	77	0
Carbon tetrachloride	0.334	0.366	-	-9.6	20	81	0
Tetrahydrofuran	20	23.627	-	-18.1	20	79	0
Dibromofluoromethane	0.245	0.245	-	0	20	72	0
1,1,1-Trichloroethane	0.382	0.408	-	-6.8	20	80	0
2-Butanone	20	22.25	-	-11.3	20	86	0
1,1-Dichloropropene	0.316	0.325	-	-2.8	20	77	0
Benzene	0.93	0.909	-	2.3	20	77	0
tert-Amyl methyl ether	0.589	0.536	-	9	20	67	0
1,2-Dichloroethane-d4	0.249	0.253	-	-1.6	20	74	0
1,2-Dichloroethane	0.268	0.302	-	-12.7	20	84	0
Methyl cyclohexane	0.395	0.399	-	-1	20	74	0
Trichloroethene	0.248	0.254	-	-2.4	20	80	0
Dibromomethane	0.112	0.122	-	-8.9	20	80	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284521-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.248	-	-9.3	20	82	0
2-Chloroethyl vinyl ether	0.109	0.108	-	0.9	20	71	0
Bromodichloromethane	0.312	0.325	-	-4.2	20	80	0
1,4-Dioxane	0.00149	0.00131*	-	12.1	20	66	0
cis-1,3-Dichloropropene	0.358	0.367	-	-2.5	20	78	0
Chlorobenzene-d5	1	1	-	0	20	79	0
Toluene-d8	1.374	1.246	-	9.3	20	72	0
Toluene	0.82	0.787	-	4	20	79	0
4-Methyl-2-pentanone	0.079	0.078*	-	1.3	20	76	0
Tetrachloroethene	0.328	0.323	-	1.5	20	80	0
trans-1,3-Dichloropropene	0.414	0.407	-	1.7	20	78	0
Ethyl methacrylate	0.316	0.266	-	15.8	20	69	0
1,1,2-Trichloroethane	0.186	0.185	-	0.5	20	80	0
Chlorodibromomethane	0.279	0.28	-	-0.4	20	81	0
1,3-Dichloropropane	0.389	0.391	-	-0.5	20	81	0
1,2-Dibromoethane	0.215	0.214	-	0.5	20	81	0
2-Hexanone	0.142	0.122	-	14.1	20	71	0
Chlorobenzene	0.904	0.854	-	5.5	20	80	0
Ethylbenzene	1.578	1.539	-	2.5	20	79	0
1,1,1,2-Tetrachloroethane	0.315	0.309	-	1.9	20	83	0
p/m Xylene	0.614	0.588	-	4.2	20	79	0
o Xylene	0.596	0.562	-	5.7	20	78	0
Styrene	0.957	0.909	-	5	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Bromoform	0.312	0.311	-	0.3	20	84	0
Isopropylbenzene	3.228	2.917	-	9.6	20	78	0
4-Bromofluorobenzene	1.085	0.967	-	10.9	20	76	0
Bromobenzene	0.692	0.651	-	5.9	20	81	0
n-Propylbenzene	3.81	3.583	-	6	20	81	0
1,4-Dichlorobutane	0.842	0.824	-	2.1	20	86	0
1,1,2,2-Tetrachloroethane	0.56	0.529	-	5.5	20	83	0
4-Ethyltoluene	3.347	2.911	-	13	20	76	0
2-Chlorotoluene	2.218	2.084	-	6	20	82	0
1,3,5-Trimethylbenzene	2.697	2.49	-	7.7	20	81	0
1,2,3-Trichloropropane	0.423	0.42	-	0.7	20	85	0
trans-1,4-Dichloro-2-buten	0.159	0.156	-	1.9	20	84	0
4-Chlorotoluene	2.339	2.149	-	8.1	20	81	0
tert-Butylbenzene	2.305	2.109	-	8.5	20	79	0
1,2,4-Trimethylbenzene	2.653	2.451	-	7.6	20	81	0
sec-Butylbenzene	3.508	3.276	-	6.6	20	81	0
p-Isopropyltoluene	2.943	2.735	-	7.1	20	80	0
1,3-Dichlorobenzene	1.397	1.335	-	4.4	20	84	0
1,4-Dichlorobenzene	1.386	1.334	-	3.8	20	85	0

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284521-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.837	1.6	-	12.9	20	76	0
n-Butylbenzene	2.767	2.69	-	2.8	20	84	0
1,2-Dichlorobenzene	1.247	1.196	-	4.1	20	84	0
1,2,4,5-Tetramethylbenzene	2.774	2.344	-	15.5	20	74	0
1,2-Dibromo-3-chloropropan	0.076	0.073	-	3.9	20	82	0
1,3,5-Trichlorobenzene	1.032	0.949	-	8	20	81	0
Hexachlorobutadiene	0.472	0.446	-	5.5	20	83	0
1,2,4-Trichlorobenzene	0.835	0.827	-	1	20	87	0
Naphthalene	1.699	1.538	-	9.5	20	79	0
1,2,3-Trichlorobenzene	0.731	0.714	-	2.3	20	86	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284596-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	72	-.01
Dichlorodifluoromethane	0.268	0.296	-	-10.4	20	68	0
Chloromethane	0.275	0.353	-	-28.4*	20	81	0
Vinyl chloride	0.312	0.325	-	-4.2	20	64	0
Bromomethane	0.233	0.224	-	3.9	20	65	0
Chloroethane	0.235	0.225	-	4.3	20	62	0
Trichlorofluoromethane	0.429	0.441	-	-2.8	20	62	0
Ethyl ether	0.143	0.127	-	11.2	20	58	0
1,1-Dichloroethene	0.214	0.21	-	1.9	20	61	0
Carbon disulfide	0.725	0.693	-	4.4	20	63	0
Freon-113	0.216	0.215	-	0.5	20	61	0
Acrolein	0.05	0.053	-	-6	20	71	0
Methylene chloride	0.28	0.249	-	11.1	20	62	0
Acetone	20	24.264	-	-21.3*	20	78	-.01
trans-1,2-Dichloroethene	0.245	0.24	-	2	20	62	0
Methyl acetate	0.187	0.213	-	-13.9	20	74	-.01
Methyl tert-butyl ether	0.725	0.65	-	10.3	20	57	-.01
tert-Butyl alcohol	0.038	0.032*	-	15.8	20	54	-.01
Diisopropyl ether	0.748	0.879	-	-17.5	20	75	-.01
1,1-Dichloroethane	0.436	0.455	-	-4.4	20	66	-.01
Halothane	0.182	0.175	-	3.8	20	60	-.01
Acrylonitrile	0.093	0.097	-	-4.3	20	66	-.01
Ethyl tert-butyl ether	0.763	0.738	-	3.3	20	62	-.02
Vinyl acetate	0.662	0.756	-	-14.2	20	74	-.01
cis-1,2-Dichloroethene	0.275	0.267	-	2.9	20	62	-.01
2,2-Dichloropropane	0.366	0.368	-	-0.5	20	63	-.01
Bromochloromethane	0.134	0.13	-	3	20	61	-.01
Cyclohexane	0.39	0.411	-	-5.4	20	66	0
Chloroform	0.43	0.434	-	-0.9	20	64	-.01
Ethyl acetate	0.3	0.325	-	-8.3	20	71	-.01
Carbon tetrachloride	0.331	0.337	-	-1.8	20	64	-.01
Tetrahydrofuran	0.106	0.117	-	-10.4	20	72	-.02
Dibromofluoromethane	0.262	0.255	-	2.7	20	70	0
1,1,1-Trichloroethane	0.365	0.384	-	-5.2	20	64	-.01
2-Butanone	0.139	0.145	-	-4.3	20	74	-.02
1,1-Dichloropropene	0.318	0.32	-	-0.6	20	61	0
Benzene	0.959	0.945	-	1.5	20	61	-.01
tert-Amyl methyl ether	0.734	0.633	-	13.8	20	55	-.02
1,2-Dichloroethane-d4	0.29	0.294	-	-1.4	20	76	-.01
1,2-Dichloroethane	0.342	0.343	-	-0.3	20	64	-.01
Methyl cyclohexane	0.415	0.383	-	7.7	20	58	-.01
Trichloroethene	0.249	0.249	-	0	20	62	-.01
Dibromomethane	0.164	0.155	-	5.5	20	61	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284596-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.254	-	0	20	63	0
2-Chloroethyl vinyl ether	0.185	0.171	-	7.6	20	59	-0.01
Bromodichloromethane	0.327	0.331	-	-1.2	20	64	-0.02
1,4-Dioxane	0.00343	0.003*	-	12.5	20	58	-0.02
cis-1,3-Dichloropropene	0.404	0.396	-	2	20	61	0
Chlorobenzene-d5	1	1	-	0	20	71	-0.02
Toluene-d8	1.211	1.215	-	-0.3	20	71	-0.02
Toluene	0.75	0.74	-	1.3	20	62	-0.01
4-Methyl-2-pentanone	0.137	0.131	-	4.4	20	61	-0.02
Tetrachloroethene	0.306	0.3	-	2	20	59	-0.02
trans-1,3-Dichloropropene	0.447	0.441	-	1.3	20	60	-0.01
Ethyl methacrylate	0.415	0.344	-	17.1	20	52	-0.02
1,1,2-Trichloroethane	0.237	0.221	-	6.8	20	58	-0.01
Chlorodibromomethane	0.311	0.304	-	2.3	20	60	-0.02
1,3-Dichloropropane	0.475	0.447	-	5.9	20	59	-0.02
1,2-Dibromoethane	0.286	0.271	-	5.2	20	58	-0.02
2-Hexanone	0.245	0.261	-	-6.5	20	69	-0.02
Chlorobenzene	0.845	0.839	-	0.7	20	61	-0.01
Ethylbenzene	1.401	1.407	-	-0.4	20	62	-0.01
1,1,1,2-Tetrachloroethane	0.297	0.3	-	-1	20	61	-0.02
p/m Xylene	0.545	0.552	-	-1.3	20	62	0
o Xylene	0.539	0.529	-	1.9	20	61	-0.02
Styrene	0.876	0.878	-	-0.2	20	61	-0.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-0.01
Bromoform	0.424	0.367	-	13.4	20	60	-0.01
Isopropylbenzene	2.578	2.613	-	-1.4	20	62	-0.02
4-Bromofluorobenzene	0.913	0.884	-	3.2	20	69	-0.01
Bromobenzene	0.679	0.626	-	7.8	20	58	-0.02
n-Propylbenzene	3.032	3.162	-	-4.3	20	63	-0.01
1,4-Dichlorobutane	0.91	0.941	-	-3.4	20	67	-0.01
1,1,2,2-Tetrachloroethane	0.726	0.695	-	4.3	20	58	-0.01
4-Ethyltoluene	2.552	2.595	-	-1.7	20	62	-0.01
2-Chlorotoluene	2.106	2.154	-	-2.3	20	64	-0.01
1,3,5-Trimethylbenzene	2.162	2.195	-	-1.5	20	63	-0.02
1,2,3-Trichloropropane	0.612	0.571	-	6.7	20	59	-0.02
trans-1,4-Dichloro-2-buten	0.212	0.235	-	-10.8	20	70	0
4-Chlorotoluene	1.897	1.962	-	-3.4	20	65	-0.01
tert-Butylbenzene	1.876	1.87	-	0.3	20	61	-0.01
1,2,4-Trimethylbenzene	2.172	2.244	-	-3.3	20	64	-0.02
sec-Butylbenzene	2.799	2.868	-	-2.5	20	62	-0.01
p-Isopropyltoluene	2.388	2.472	-	-3.5	20	63	-0.01
1,3-Dichlorobenzene	1.306	1.296	-	0.8	20	62	-0.01
1,4-Dichlorobenzene	1.32	1.316	-	0.3	20	63	-0.01

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284596-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.467	-	-0.1	20	62	-0.01
n-Butylbenzene	2.231	2.421	-	-8.5	20	66	-0.01
1,2-Dichlorobenzene	1.255	1.214	-	3.3	20	61	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.266	-	2.5	20	60	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.114	-	16.2	20	56	-0.01
1,3,5-Trichlorobenzene	0.913	0.901	-	1.3	20	62	-0.01
Hexachlorobutadiene	0.428	0.389	-	9.1	20	57	-0.01
1,2,4-Trichlorobenzene	0.862	0.849	-	1.5	20	62	-0.01
Naphthalene	2.486	2.258	-	9.2	20	57	-0.01
1,2,3-Trichlorobenzene	0.842	0.809	-	3.9	20	60	-0.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284598-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	72	-.01
Dichlorodifluoromethane	0.268	0.296	-	-10.4	20	68	0
Chloromethane	0.275	0.353	-	-28.4*	20	81	0
Vinyl chloride	0.312	0.325	-	-4.2	20	64	0
Bromomethane	0.233	0.224	-	3.9	20	65	0
Chloroethane	0.235	0.225	-	4.3	20	62	0
Trichlorofluoromethane	0.429	0.441	-	-2.8	20	62	0
Ethyl ether	0.143	0.127	-	11.2	20	58	0
1,1-Dichloroethene	0.214	0.21	-	1.9	20	61	0
Carbon disulfide	0.725	0.693	-	4.4	20	63	0
Freon-113	0.216	0.215	-	0.5	20	61	0
Acrolein	0.05	0.053	-	-6	20	71	0
Methylene chloride	0.28	0.249	-	11.1	20	62	0
Acetone	20	24.264	-	-21.3*	20	78	-.01
trans-1,2-Dichloroethene	0.245	0.24	-	2	20	62	0
Methyl acetate	0.187	0.213	-	-13.9	20	74	-.01
Methyl tert-butyl ether	0.725	0.65	-	10.3	20	57	-.01
tert-Butyl alcohol	0.038	0.032*	-	15.8	20	54	-.01
Diisopropyl ether	0.748	0.879	-	-17.5	20	75	-.01
1,1-Dichloroethane	0.436	0.455	-	-4.4	20	66	-.01
Halothane	0.182	0.175	-	3.8	20	60	-.01
Acrylonitrile	0.093	0.097	-	-4.3	20	66	-.01
Ethyl tert-butyl ether	0.763	0.738	-	3.3	20	62	-.02
Vinyl acetate	0.662	0.756	-	-14.2	20	74	-.01
cis-1,2-Dichloroethene	0.275	0.267	-	2.9	20	62	-.01
2,2-Dichloropropane	0.366	0.368	-	-0.5	20	63	-.01
Bromochloromethane	0.134	0.13	-	3	20	61	-.01
Cyclohexane	0.39	0.411	-	-5.4	20	66	0
Chloroform	0.43	0.434	-	-0.9	20	64	-.01
Ethyl acetate	0.3	0.325	-	-8.3	20	71	-.01
Carbon tetrachloride	0.331	0.337	-	-1.8	20	64	-.01
Tetrahydrofuran	0.106	0.117	-	-10.4	20	72	-.02
Dibromofluoromethane	0.262	0.255	-	2.7	20	70	0
1,1,1-Trichloroethane	0.365	0.384	-	-5.2	20	64	-.01
2-Butanone	0.139	0.145	-	-4.3	20	74	-.02
1,1-Dichloropropene	0.318	0.32	-	-0.6	20	61	0
Benzene	0.959	0.945	-	1.5	20	61	-.01
tert-Amyl methyl ether	0.734	0.633	-	13.8	20	55	-.02
1,2-Dichloroethane-d4	0.29	0.294	-	-1.4	20	76	-.01
1,2-Dichloroethane	0.342	0.343	-	-0.3	20	64	-.01
Methyl cyclohexane	0.415	0.383	-	7.7	20	58	-.01
Trichloroethene	0.249	0.249	-	0	20	62	-.01
Dibromomethane	0.164	0.155	-	5.5	20	61	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284598-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.254	-	0	20	63	0
2-Chloroethyl vinyl ether	0.185	0.171	-	7.6	20	59	-0.01
Bromodichloromethane	0.327	0.331	-	-1.2	20	64	-0.02
1,4-Dioxane	0.00343	0.003*	-	12.5	20	58	-0.02
cis-1,3-Dichloropropene	0.404	0.396	-	2	20	61	0
Chlorobenzene-d5	1	1	-	0	20	71	-0.02
Toluene-d8	1.211	1.215	-	-0.3	20	71	-0.02
Toluene	0.75	0.74	-	1.3	20	62	-0.01
4-Methyl-2-pentanone	0.137	0.131	-	4.4	20	61	-0.02
Tetrachloroethene	0.306	0.3	-	2	20	59	-0.02
trans-1,3-Dichloropropene	0.447	0.441	-	1.3	20	60	-0.01
Ethyl methacrylate	0.415	0.344	-	17.1	20	52	-0.02
1,1,2-Trichloroethane	0.237	0.221	-	6.8	20	58	-0.01
Chlorodibromomethane	0.311	0.304	-	2.3	20	60	-0.02
1,3-Dichloropropane	0.475	0.447	-	5.9	20	59	-0.02
1,2-Dibromoethane	0.286	0.271	-	5.2	20	58	-0.02
2-Hexanone	0.245	0.261	-	-6.5	20	69	-0.02
Chlorobenzene	0.845	0.839	-	0.7	20	61	-0.01
Ethylbenzene	1.401	1.407	-	-0.4	20	62	-0.01
1,1,1,2-Tetrachloroethane	0.297	0.3	-	-1	20	61	-0.02
p/m Xylene	0.545	0.552	-	-1.3	20	62	0
o Xylene	0.539	0.529	-	1.9	20	61	-0.02
Styrene	0.876	0.878	-	-0.2	20	61	-0.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-0.01
Bromoform	0.424	0.367	-	13.4	20	60	-0.01
Isopropylbenzene	2.578	2.613	-	-1.4	20	62	-0.02
4-Bromofluorobenzene	0.913	0.884	-	3.2	20	69	-0.01
Bromobenzene	0.679	0.626	-	7.8	20	58	-0.02
n-Propylbenzene	3.032	3.162	-	-4.3	20	63	-0.01
1,4-Dichlorobutane	0.91	0.941	-	-3.4	20	67	-0.01
1,1,2,2-Tetrachloroethane	0.726	0.695	-	4.3	20	58	-0.01
4-Ethyltoluene	2.552	2.595	-	-1.7	20	62	-0.01
2-Chlorotoluene	2.106	2.154	-	-2.3	20	64	-0.01
1,3,5-Trimethylbenzene	2.162	2.195	-	-1.5	20	63	-0.02
1,2,3-Trichloropropane	0.612	0.571	-	6.7	20	59	-0.02
trans-1,4-Dichloro-2-buten	0.212	0.235	-	-10.8	20	70	0
4-Chlorotoluene	1.897	1.962	-	-3.4	20	65	-0.01
tert-Butylbenzene	1.876	1.87	-	0.3	20	61	-0.01
1,2,4-Trimethylbenzene	2.172	2.244	-	-3.3	20	64	-0.02
sec-Butylbenzene	2.799	2.868	-	-2.5	20	62	-0.01
p-Isopropyltoluene	2.388	2.472	-	-3.5	20	63	-0.01
1,3-Dichlorobenzene	1.306	1.296	-	0.8	20	62	-0.01
1,4-Dichlorobenzene	1.32	1.316	-	0.3	20	63	-0.01

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284598-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.467	-	-0.1	20	62	-0.01
n-Butylbenzene	2.231	2.421	-	-8.5	20	66	-0.01
1,2-Dichlorobenzene	1.255	1.214	-	3.3	20	61	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.266	-	2.5	20	60	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.114	-	16.2	20	56	-0.01
1,3,5-Trichlorobenzene	0.913	0.901	-	1.3	20	62	-0.01
Hexachlorobutadiene	0.428	0.389	-	9.1	20	57	-0.01
1,2,4-Trichlorobenzene	0.862	0.849	-	1.5	20	62	-0.01
Naphthalene	2.486	2.258	-	9.2	20	57	-0.01
1,2,3-Trichlorobenzene	0.842	0.809	-	3.9	20	60	-0.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284781-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	71	-.01
Dichlorodifluoromethane	0.268	0.224	-	16.4	20	51	0
Chloromethane	0.275	0.31	-	-12.7	20	70	0
Vinyl chloride	0.312	0.301	-	3.5	20	59	0
Bromomethane	0.233	0.217	-	6.9	20	63	0
Chloroethane	0.235	0.219	-	6.8	20	60	0
Trichlorofluoromethane	0.429	0.453	-	-5.6	20	63	0
Ethyl ether	0.143	0.132	-	7.7	20	59	0
1,1-Dichloroethene	0.214	0.214	-	0	20	61	0
Carbon disulfide	0.725	0.681	-	6.1	20	61	0
Freon-113	0.216	0.22	-	-1.9	20	62	0
Acrolein	0.05	0.054	-	-8	20	73	0
Methylene chloride	0.28	0.252	-	10	20	62	0
Acetone	20	24.255	-	-21.3*	20	77	-.01
trans-1,2-Dichloroethene	0.245	0.247	-	-0.8	20	63	0
Methyl acetate	0.187	0.229	-	-22.5*	20	78	-.02
Methyl tert-butyl ether	0.725	0.668	-	7.9	20	58	-.01
tert-Butyl alcohol	0.038	0.035*	-	7.9	20	58	-.01
Diisopropyl ether	0.748	0.909	-	-21.5*	20	76	-.01
1,1-Dichloroethane	0.436	0.466	-	-6.9	20	66	-.01
Halothane	0.182	0.186	-	-2.2	20	63	-.01
Acrylonitrile	0.093	0.101	-	-8.6	20	68	-.01
Ethyl tert-butyl ether	0.763	0.766	-	-0.4	20	63	-.02
Vinyl acetate	0.662	0.779	-	-17.7	20	75	-.01
cis-1,2-Dichloroethene	0.275	0.27	-	1.8	20	62	-.01
2,2-Dichloropropane	0.366	0.379	-	-3.6	20	64	-.01
Bromochloromethane	0.134	0.133	-	0.7	20	62	-.01
Cyclohexane	0.39	0.428	-	-9.7	20	67	0
Chloroform	0.43	0.452	-	-5.1	20	66	-.01
Ethyl acetate	0.3	0.335	-	-11.7	20	72	-.02
Carbon tetrachloride	0.331	0.355	-	-7.3	20	66	0
Tetrahydrofuran	0.106	0.123	-	-16	20	74	-.02
Dibromofluoromethane	0.262	0.254	-	3.1	20	69	-.01
1,1,1-Trichloroethane	0.365	0.398	-	-9	20	65	-.01
2-Butanone	0.139	0.155	-	-11.5	20	78	-.02
1,1-Dichloropropene	0.318	0.332	-	-4.4	20	63	-.01
Benzene	0.959	0.971	-	-1.3	20	62	-.01
tert-Amyl methyl ether	0.734	0.657	-	10.5	20	56	-.02
1,2-Dichloroethane-d4	0.29	0.298	-	-2.8	20	75	-.02
1,2-Dichloroethane	0.342	0.359	-	-5	20	67	-.02
Methyl cyclohexane	0.415	0.391	-	5.8	20	58	-.01
Trichloroethene	0.249	0.258	-	-3.6	20	63	-.01
Dibromomethane	0.164	0.162	-	1.2	20	63	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284781-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.264	-	-3.9	20	65	-.02
2-Chloroethyl vinyl ether	0.185	0.177	-	4.3	20	60	-.01
Bromodichloromethane	0.327	0.346	-	-5.8	20	66	-.02
1,4-Dioxane	0.00343	0.00304*	-	11.4	20	58	-.02
cis-1,3-Dichloropropene	0.404	0.411	-	-1.7	20	62	0
Chlorobenzene-d5	1	1	-	0	20	70	-.02
Toluene-d8	1.211	1.205	-	0.5	20	70	-.02
Toluene	0.75	0.756	-	-0.8	20	62	-.02
4-Methyl-2-pentanone	0.137	0.133	-	2.9	20	61	-.02
Tetrachloroethene	0.306	0.314	-	-2.6	20	60	-.02
trans-1,3-Dichloropropene	0.447	0.46	-	-2.9	20	62	-.02
Ethyl methacrylate	0.415	0.365	-	12	20	54	-.02
1,1,2-Trichloroethane	0.237	0.233	-	1.7	20	61	-.01
Chlorodibromomethane	0.311	0.324	-	-4.2	20	64	-.02
1,3-Dichloropropane	0.475	0.47	-	1.1	20	61	-.01
1,2-Dibromoethane	0.286	0.286	-	0	20	61	-.02
2-Hexanone	0.245	0.269	-	-9.8	20	70	-.02
Chlorobenzene	0.845	0.869	-	-2.8	20	63	-.02
Ethylbenzene	1.401	1.469	-	-4.9	20	64	-.02
1,1,1,2-Tetrachloroethane	0.297	0.315	-	-6.1	20	63	-.02
p/m Xylene	0.545	0.575	-	-5.5	20	64	-.02
o Xylene	0.539	0.552	-	-2.4	20	62	-.02
Styrene	0.876	0.911	-	-4	20	62	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-.01
Bromoform	0.424	0.386	-	9	20	63	-.02
Isopropylbenzene	2.578	2.686	-	-4.2	20	64	-.02
4-Bromofluorobenzene	0.913	0.883	-	3.3	20	69	-.01
Bromobenzene	0.679	0.647	-	4.7	20	61	-.02
n-Propylbenzene	3.032	3.237	-	-6.8	20	65	-.01
1,4-Dichlorobutane	0.91	0.983	-	-8	20	70	-.01
1,1,2,2-Tetrachloroethane	0.726	0.73	-	-0.6	20	61	-.01
4-Ethyltoluene	2.552	2.632	-	-3.1	20	63	-.01
2-Chlorotoluene	2.106	2.196	-	-4.3	20	65	-.01
1,3,5-Trimethylbenzene	2.162	2.259	-	-4.5	20	65	-.02
1,2,3-Trichloropropane	0.612	0.595	-	2.8	20	62	-.02
trans-1,4-Dichloro-2-buten	0.212	0.248	-	-17	20	74	-.02
4-Chlorotoluene	1.897	2.008	-	-5.9	20	66	-.02
tert-Butylbenzene	1.876	1.917	-	-2.2	20	62	-.01
1,2,4-Trimethylbenzene	2.172	2.277	-	-4.8	20	65	-.02
sec-Butylbenzene	2.799	2.943	-	-5.1	20	64	-.01
p-Isopropyltoluene	2.388	2.502	-	-4.8	20	64	-.02
1,3-Dichlorobenzene	1.306	1.339	-	-2.5	20	65	-.01
1,4-Dichlorobenzene	1.32	1.352	-	-2.4	20	65	-.01

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284781-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.468	-	-0.1	20	62	-0.01
n-Butylbenzene	2.231	2.436	-	-9.2	20	67	-0.01
1,2-Dichlorobenzene	1.255	1.253	-	0.2	20	63	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.304	-	0.9	20	62	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.119	-	12.5	20	58	-0.01
1,3,5-Trichlorobenzene	0.913	0.902	-	1.2	20	62	-0.01
Hexachlorobutadiene	0.428	0.378	-	11.7	20	56	-0.01
1,2,4-Trichlorobenzene	0.862	0.858	-	0.5	20	63	-0.01
Naphthalene	2.486	2.385	-	4.1	20	60	-0.01
1,2,3-Trichlorobenzene	0.842	0.82	-	2.6	20	62	-0.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284780-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	71	-.01
Dichlorodifluoromethane	0.268	0.224	-	16.4	20	51	0
Chloromethane	0.275	0.31	-	-12.7	20	70	0
Vinyl chloride	0.312	0.301	-	3.5	20	59	0
Bromomethane	0.233	0.217	-	6.9	20	63	0
Chloroethane	0.235	0.219	-	6.8	20	60	0
Trichlorofluoromethane	0.429	0.453	-	-5.6	20	63	0
Ethyl ether	0.143	0.132	-	7.7	20	59	0
1,1-Dichloroethene	0.214	0.214	-	0	20	61	0
Carbon disulfide	0.725	0.681	-	6.1	20	61	0
Freon-113	0.216	0.22	-	-1.9	20	62	0
Acrolein	0.05	0.054	-	-8	20	73	0
Methylene chloride	0.28	0.252	-	10	20	62	0
Acetone	20	24.255	-	-21.3*	20	77	-.01
trans-1,2-Dichloroethene	0.245	0.247	-	-0.8	20	63	0
Methyl acetate	0.187	0.229	-	-22.5*	20	78	-.02
Methyl tert-butyl ether	0.725	0.668	-	7.9	20	58	-.01
tert-Butyl alcohol	0.038	0.035*	-	7.9	20	58	-.01
Diisopropyl ether	0.748	0.909	-	-21.5*	20	76	-.01
1,1-Dichloroethane	0.436	0.466	-	-6.9	20	66	-.01
Halothane	0.182	0.186	-	-2.2	20	63	-.01
Acrylonitrile	0.093	0.101	-	-8.6	20	68	-.01
Ethyl tert-butyl ether	0.763	0.766	-	-0.4	20	63	-.02
Vinyl acetate	0.662	0.779	-	-17.7	20	75	-.01
cis-1,2-Dichloroethene	0.275	0.27	-	1.8	20	62	-.01
2,2-Dichloropropane	0.366	0.379	-	-3.6	20	64	-.01
Bromochloromethane	0.134	0.133	-	0.7	20	62	-.01
Cyclohexane	0.39	0.428	-	-9.7	20	67	0
Chloroform	0.43	0.452	-	-5.1	20	66	-.01
Ethyl acetate	0.3	0.335	-	-11.7	20	72	-.02
Carbon tetrachloride	0.331	0.355	-	-7.3	20	66	0
Tetrahydrofuran	0.106	0.123	-	-16	20	74	-.02
Dibromofluoromethane	0.262	0.254	-	3.1	20	69	-.01
1,1,1-Trichloroethane	0.365	0.398	-	-9	20	65	-.01
2-Butanone	0.139	0.155	-	-11.5	20	78	-.02
1,1-Dichloropropene	0.318	0.332	-	-4.4	20	63	-.01
Benzene	0.959	0.971	-	-1.3	20	62	-.01
tert-Amyl methyl ether	0.734	0.657	-	10.5	20	56	-.02
1,2-Dichloroethane-d4	0.29	0.298	-	-2.8	20	75	-.02
1,2-Dichloroethane	0.342	0.359	-	-5	20	67	-.02
Methyl cyclohexane	0.415	0.391	-	5.8	20	58	-.01
Trichloroethene	0.249	0.258	-	-3.6	20	63	-.01
Dibromomethane	0.164	0.162	-	1.2	20	63	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284780-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.264	-	-3.9	20	65	-.02
2-Chloroethyl vinyl ether	0.185	0.177	-	4.3	20	60	-.01
Bromodichloromethane	0.327	0.346	-	-5.8	20	66	-.02
1,4-Dioxane	0.00343	0.00304*	-	11.4	20	58	-.02
cis-1,3-Dichloropropene	0.404	0.411	-	-1.7	20	62	0
Chlorobenzene-d5	1	1	-	0	20	70	-.02
Toluene-d8	1.211	1.205	-	0.5	20	70	-.02
Toluene	0.75	0.756	-	-0.8	20	62	-.02
4-Methyl-2-pentanone	0.137	0.133	-	2.9	20	61	-.02
Tetrachloroethene	0.306	0.314	-	-2.6	20	60	-.02
trans-1,3-Dichloropropene	0.447	0.46	-	-2.9	20	62	-.02
Ethyl methacrylate	0.415	0.365	-	12	20	54	-.02
1,1,2-Trichloroethane	0.237	0.233	-	1.7	20	61	-.01
Chlorodibromomethane	0.311	0.324	-	-4.2	20	64	-.02
1,3-Dichloropropane	0.475	0.47	-	1.1	20	61	-.01
1,2-Dibromoethane	0.286	0.286	-	0	20	61	-.02
2-Hexanone	0.245	0.269	-	-9.8	20	70	-.02
Chlorobenzene	0.845	0.869	-	-2.8	20	63	-.02
Ethylbenzene	1.401	1.469	-	-4.9	20	64	-.02
1,1,1,2-Tetrachloroethane	0.297	0.315	-	-6.1	20	63	-.02
p/m Xylene	0.545	0.575	-	-5.5	20	64	-.02
o Xylene	0.539	0.552	-	-2.4	20	62	-.02
Styrene	0.876	0.911	-	-4	20	62	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-.01
Bromoform	0.424	0.386	-	9	20	63	-.02
Isopropylbenzene	2.578	2.686	-	-4.2	20	64	-.02
4-Bromofluorobenzene	0.913	0.883	-	3.3	20	69	-.01
Bromobenzene	0.679	0.647	-	4.7	20	61	-.02
n-Propylbenzene	3.032	3.237	-	-6.8	20	65	-.01
1,4-Dichlorobutane	0.91	0.983	-	-8	20	70	-.01
1,1,2,2-Tetrachloroethane	0.726	0.73	-	-0.6	20	61	-.01
4-Ethyltoluene	2.552	2.632	-	-3.1	20	63	-.01
2-Chlorotoluene	2.106	2.196	-	-4.3	20	65	-.01
1,3,5-Trimethylbenzene	2.162	2.259	-	-4.5	20	65	-.02
1,2,3-Trichloropropane	0.612	0.595	-	2.8	20	62	-.02
trans-1,4-Dichloro-2-buten	0.212	0.248	-	-17	20	74	-.02
4-Chlorotoluene	1.897	2.008	-	-5.9	20	66	-.02
tert-Butylbenzene	1.876	1.917	-	-2.2	20	62	-.01
1,2,4-Trimethylbenzene	2.172	2.277	-	-4.8	20	65	-.02
sec-Butylbenzene	2.799	2.943	-	-5.1	20	64	-.01
p-Isopropyltoluene	2.388	2.502	-	-4.8	20	64	-.02
1,3-Dichlorobenzene	1.306	1.339	-	-2.5	20	65	-.01
1,4-Dichlorobenzene	1.32	1.352	-	-2.4	20	65	-.01

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284780-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.468	-	-0.1	20	62	-0.01
n-Butylbenzene	2.231	2.436	-	-9.2	20	67	-0.01
1,2-Dichlorobenzene	1.255	1.253	-	0.2	20	63	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.304	-	0.9	20	62	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.119	-	12.5	20	58	-0.01
1,3,5-Trichlorobenzene	0.913	0.902	-	1.2	20	62	-0.01
Hexachlorobutadiene	0.428	0.378	-	11.7	20	56	-0.01
1,2,4-Trichlorobenzene	0.862	0.858	-	0.5	20	63	-0.01
Naphthalene	2.486	2.385	-	4.1	20	60	-0.01
1,2,3-Trichlorobenzene	0.842	0.82	-	2.6	20	62	-0.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916N01
 Sample No : WG1284929-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 19:09
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	65	-.01
Dichlorodifluoromethane	0.268	0.319	-	-19	20	65	0
Chloromethane	0.275	0.377	-	-37.1*	20	77	0
Vinyl chloride	0.312	0.361	-	-15.7	20	64	0
Bromomethane	0.233	0.242	-	-3.9	20	63	0
Chloroethane	0.235	0.242	-	-3	20	60	0
Trichlorofluoromethane	0.429	0.48	-	-11.9	20	61	0
Ethyl ether	0.143	0.129	-	9.8	20	52	0
1,1-Dichloroethene	0.214	0.228	-	-6.5	20	59	0
Carbon disulfide	0.725	0.745	-	-2.8	20	60	0
Freon-113	0.216	0.231	-	-6.9	20	59	0
Acrolein	0.05	0.057	-	-14	20	69	0
Methylene chloride	0.28	0.259	-	7.5	20	57	0
Acetone	20	26.629	-	-33.1*	20	76	-.02
trans-1,2-Dichloroethene	0.245	0.259	-	-5.7	20	59	0
Methyl acetate	0.187	0.226	-	-20.9*	20	70	-.01
Methyl tert-butyl ether	0.725	0.638	-	12	20	50	-.01
tert-Butyl alcohol	0.038	0.034*	-	10.5	20	51	-.02
Diisopropyl ether	0.748	0.896	-	-19.8	20	68	-.01
1,1-Dichloroethane	0.436	0.481	-	-10.3	20	62	0
Halothane	0.182	0.185	-	-1.6	20	56	-.01
Acrylonitrile	0.093	0.101	-	-8.6	20	62	-.01
Ethyl tert-butyl ether	0.763	0.739	-	3.1	20	55	-.01
Vinyl acetate	0.662	0.76	-	-14.8	20	66	-.01
cis-1,2-Dichloroethene	0.275	0.277	-	-0.7	20	57	-.01
2,2-Dichloropropane	0.366	0.389	-	-6.3	20	60	0
Bromochloromethane	0.134	0.129	-	3.7	20	54	-.01
Cyclohexane	0.39	0.448	-	-14.9	20	64	0
Chloroform	0.43	0.46	-	-7	20	60	-.01
Ethyl acetate	0.3	0.33	-	-10	20	64	-.02
Carbon tetrachloride	0.331	0.357	-	-7.9	20	60	-.01
Tetrahydrofuran	0.106	0.12	-	-13.2	20	66	-.02
Dibromofluoromethane	0.262	0.253	-	3.4	20	62	0
1,1,1-Trichloroethane	0.365	0.405	-	-11	20	60	-.01
2-Butanone	0.139	0.157	-	-12.9	20	71	-.02
1,1-Dichloropropene	0.318	0.347	-	-9.1	20	59	-.01
Benzene	0.959	1	-	-4.3	20	58	-.01
tert-Amyl methyl ether	0.734	0.621	-	15.4	20	48	-.02
1,2-Dichloroethane-d4	0.29	0.286	-	1.4	20	66	-.01
1,2-Dichloroethane	0.342	0.352	-	-2.9	20	59	-.01
Methyl cyclohexane	0.415	0.405	-	2.4	20	54	-.01
Trichloroethene	0.249	0.263	-	-5.6	20	58	-.01
Dibromomethane	0.164	0.156	-	4.9	20	55	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916N01
 Sample No : WG1284929-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 19:09
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.258	-	-1.6	20	57	0
2-Chloroethyl vinyl ether	0.185	0.172	-	7	20	53	-0.01
Bromodichloromethane	0.327	0.342	-	-4.6	20	59	-0.02
1,4-Dioxane	0.00343	0.00322*	-	6.1	20	56	-0.02
cis-1,3-Dichloropropene	0.404	0.399	-	1.2	20	55	0
Chlorobenzene-d5	1	1	-	0	20	63	-0.01
Toluene-d8	1.211	1.219	-	-0.7	20	63	-0.02
Toluene	0.75	0.77	-	-2.7	20	57	-0.02
4-Methyl-2-pentanone	0.137	0.13	-	5.1	20	54	-0.02
Tetrachloroethene	0.306	0.316	-	-3.3	20	55	-0.01
trans-1,3-Dichloropropene	0.447	0.444	-	0.7	20	54	-0.01
Ethyl methacrylate	0.415	0.339	-	18.3	20	45	-0.02
1,1,2-Trichloroethane	0.237	0.226	-	4.6	20	53	-0.01
Chlorodibromomethane	0.311	0.31	-	0.3	20	55	-0.02
1,3-Dichloropropane	0.475	0.452	-	4.8	20	53	-0.01
1,2-Dibromoethane	0.286	0.271	-	5.2	20	51	-0.01
2-Hexanone	0.245	0.261	-	-6.5	20	61	-0.02
Chlorobenzene	0.845	0.872	-	-3.2	20	57	-0.02
Ethylbenzene	1.401	1.495	-	-6.7	20	58	-0.01
1,1,1,2-Tetrachloroethane	0.297	0.308	-	-3.7	20	55	-0.02
p/m Xylene	0.545	0.576	-	-5.7	20	57	0
o Xylene	0.539	0.554	-	-2.8	20	56	-0.01
Styrene	0.876	0.907	-	-3.5	20	56	-0.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	64	-0.01
Bromoform	0.424	0.36	-	15.1	20	52	-0.01
Isopropylbenzene	2.578	2.753	-	-6.8	20	58	-0.02
4-Bromofluorobenzene	0.913	0.892	-	2.3	20	62	-0.01
Bromobenzene	0.679	0.65	-	4.3	20	54	-0.02
n-Propylbenzene	3.032	3.344	-	-10.3	20	59	-0.01
1,4-Dichlorobutane	0.91	0.95	-	-4.4	20	60	-0.01
1,1,2,2-Tetrachloroethane	0.726	0.704	-	3	20	52	-0.01
4-Ethyltoluene	2.552	2.738	-	-7.3	20	58	0
2-Chlorotoluene	2.106	2.252	-	-6.9	20	59	-0.01
1,3,5-Trimethylbenzene	2.162	2.333	-	-7.9	20	59	-0.02
1,2,3-Trichloropropane	0.612	0.583	-	4.7	20	54	-0.01
trans-1,4-Dichloro-2-buten	0.212	0.235	-	-10.8	20	62	0
4-Chlorotoluene	1.897	2.034	-	-7.2	20	59	-0.01
tert-Butylbenzene	1.876	1.976	-	-5.3	20	57	-0.01
1,2,4-Trimethylbenzene	2.172	2.323	-	-7	20	58	-0.02
sec-Butylbenzene	2.799	3.106	-	-11	20	60	-0.01
p-Isopropyltoluene	2.388	2.608	-	-9.2	20	59	-0.02
1,3-Dichlorobenzene	1.306	1.341	-	-2.7	20	57	-0.01
1,4-Dichlorobenzene	1.32	1.342	-	-1.7	20	57	-0.01

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916N01
 Sample No : WG1284929-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 19:09
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.542	-	-5.2	20	58	-0.01
n-Butylbenzene	2.231	2.568	-	-15.1	20	62	-0.01
1,2-Dichlorobenzene	1.255	1.25	-	0.4	20	56	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.321	-	0.2	20	55	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.116	-	14.7	20	50	-0.01
1,3,5-Trichlorobenzene	0.913	0.916	-	-0.3	20	56	-0.01
Hexachlorobutadiene	0.428	0.415	-	3	20	54	0
1,2,4-Trichlorobenzene	0.862	0.834	-	3.2	20	54	-0.01
Naphthalene	2.486	2.258	-	9.2	20	50	-0.01
1,2,3-Trichlorobenzene	0.842	0.788	-	6.4	20	52	-0.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190917A01
 Sample No : WG1285102-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/17/19 07:26
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	82	-.01
Dichlorodifluoromethane	0.268	0.274	-	-2.2	20	71	0
Chloromethane	0.275	0.325	-	-18.2	20	85	0
Vinyl chloride	0.312	0.308	-	1.3	20	69	0
Bromomethane	0.233	0.209	-	10.3	20	69	0
Chloroethane	0.235	0.215	-	8.5	20	67	0
Trichlorofluoromethane	0.429	0.424	-	1.2	20	68	0
Ethyl ether	0.143	0.125	-	12.6	20	64	0
1,1-Dichloroethene	0.214	0.206	-	3.7	20	68	0
Carbon disulfide	0.725	0.674	-	7	20	69	0
Freon-113	0.216	0.207	-	4.2	20	66	0
Acrolein	0.05	0.051	-	-2	20	78	0
Methylene chloride	0.28	0.26	-	7.1	20	73	0
Acetone	20	22.467	-	-12.3	20	82	-.01
trans-1,2-Dichloroethene	0.245	0.236	-	3.7	20	69	0
Methyl acetate	0.187	0.21	-	-12.3	20	82	-.01
Methyl tert-butyl ether	0.725	0.625	-	13.8	20	62	-.01
tert-Butyl alcohol	0.038	0.033*	-	13.2	20	64	-.02
Diisopropyl ether	0.748	0.823	-	-10	20	79	-.01
1,1-Dichloroethane	0.436	0.43	-	1.4	20	70	-.01
Halothane	0.182	0.172	-	5.5	20	66	-.01
Acrylonitrile	0.093	0.096	-	-3.2	20	74	-.01
Ethyl tert-butyl ether	0.763	0.708	-	7.2	20	67	-.02
Vinyl acetate	0.662	0.71	-	-7.3	20	78	-.01
cis-1,2-Dichloroethene	0.275	0.255	-	7.3	20	67	-.01
2,2-Dichloropropane	0.366	0.354	-	3.3	20	69	-.01
Bromochloromethane	0.134	0.127	-	5.2	20	68	-.01
Cyclohexane	0.39	0.385	-	1.3	20	70	0
Chloroform	0.43	0.415	-	3.5	20	69	-.01
Ethyl acetate	0.3	0.303	-	-1	20	75	-.02
Carbon tetrachloride	0.331	0.326	-	1.5	20	70	0
Tetrahydrofuran	0.106	0.111	-	-4.7	20	77	-.02
Dibromofluoromethane	0.262	0.251	-	4.2	20	78	0
1,1,1-Trichloroethane	0.365	0.371	-	-1.6	20	70	-.01
2-Butanone	0.139	0.138	-	0.7	20	79	-.02
1,1-Dichloropropene	0.318	0.312	-	1.9	20	67	-.01
Benzene	0.959	0.906	-	5.5	20	67	-.01
tert-Amyl methyl ether	0.734	0.608	-	17.2	20	60	-.02
1,2-Dichloroethane-d4	0.29	0.283	-	2.4	20	82	-.01
1,2-Dichloroethane	0.342	0.331	-	3.2	20	70	-.01
Methyl cyclohexane	0.415	0.355	-	14.5	20	60	-.02
Trichloroethene	0.249	0.24	-	3.6	20	67	-.01
Dibromomethane	0.164	0.152	-	7.3	20	67	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190917A01
 Sample No : WG1285102-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/17/19 07:26
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.242	-	4.7	20	68	0
2-Chloroethyl vinyl ether	0.185	0.167	-	9.7	20	65	-.01
Bromodichloromethane	0.327	0.317	-	3.1	20	69	-.02
1,4-Dioxane	0.00343	0.00325*	-	5.2	20	72	-.02
cis-1,3-Dichloropropene	0.404	0.38	-	5.9	20	66	0
Chlorobenzene-d5	1	1	-	0	20	83	-.02
Toluene-d8	1.211	1.193	-	1.5	20	81	-.02
Toluene	0.75	0.691	-	7.9	20	67	-.01
4-Methyl-2-pentanone	0.137	0.122	-	10.9	20	65	-.02
Tetrachloroethene	0.306	0.296	-	3.3	20	67	-.02
trans-1,3-Dichloropropene	0.447	0.414	-	7.4	20	66	-.01
Ethyl methacrylate	0.415	0.33	-	20.5*	20	58	-.02
1,1,2-Trichloroethane	0.237	0.209	-	11.8	20	64	-.01
Chlorodibromomethane	0.311	0.293	-	5.8	20	67	-.02
1,3-Dichloropropane	0.475	0.423	-	10.9	20	64	-.01
1,2-Dibromoethane	0.286	0.263	-	8	20	65	-.02
2-Hexanone	0.245	0.244	-	0.4	20	75	-.02
Chlorobenzene	0.845	0.798	-	5.6	20	68	-.02
Ethylbenzene	1.401	1.338	-	4.5	20	68	-.02
1,1,1,2-Tetrachloroethane	0.297	0.288	-	3	20	68	-.02
p/m Xylene	0.545	0.527	-	3.3	20	69	0
o Xylene	0.539	0.508	-	5.8	20	67	-.02
Styrene	0.876	0.829	-	5.4	20	67	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	86	-.01
Bromoform	0.424	0.354	-	16.5	20	68	-.02
Isopropylbenzene	2.578	2.443	-	5.2	20	69	-.02
4-Bromofluorobenzene	0.913	0.872	-	4.5	20	81	-.01
Bromobenzene	0.679	0.597	-	12.1	20	66	-.02
n-Propylbenzene	3.032	2.903	-	4.3	20	69	-.01
1,4-Dichlorobutane	0.91	0.866	-	4.8	20	73	-.01
1,1,2,2-Tetrachloroethane	0.726	0.644	-	11.3	20	64	-.01
4-Ethyltoluene	2.552	2.385	-	6.5	20	67	-.01
2-Chlorotoluene	2.106	1.988	-	5.6	20	70	-.01
1,3,5-Trimethylbenzene	2.162	2.059	-	4.8	20	70	-.02
1,2,3-Trichloropropane	0.612	0.538	-	12.1	20	66	-.01
trans-1,4-Dichloro-2-buten	0.212	0.221	-	-4.2	20	78	0
4-Chlorotoluene	1.897	1.816	-	4.3	20	71	-.01
tert-Butylbenzene	1.876	1.747	-	6.9	20	67	-.01
1,2,4-Trimethylbenzene	2.172	2.067	-	4.8	20	70	-.02
sec-Butylbenzene	2.799	2.638	-	5.8	20	68	-.01
p-Isopropyltoluene	2.388	2.253	-	5.7	20	68	-.02
1,3-Dichlorobenzene	1.306	1.222	-	6.4	20	70	-.01
1,4-Dichlorobenzene	1.32	1.239	-	6.1	20	71	-.01

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190917A01
 Sample No : WG1285102-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/17/19 07:26
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.352	-	7.8	20	68	-.01
n-Butylbenzene	2.231	2.158	-	3.3	20	70	-.01
1,2-Dichlorobenzene	1.255	1.149	-	8.4	20	69	-.01
1,2,4,5-Tetramethylbenzene	2.325	2.087	-	10.2	20	66	-.01
1,2-Dibromo-3-chloropropan	0.136	0.114	-	16.2	20	66	-.01
1,3,5-Trichlorobenzene	0.913	0.844	-	7.6	20	69	-.01
Hexachlorobutadiene	0.428	0.355	-	17.1	20	62	-.01
1,2,4-Trichlorobenzene	0.862	0.791	-	8.2	20	68	-.01
Naphthalene	2.486	2.175	-	12.5	20	65	-.01
1,2,3-Trichlorobenzene	0.842	0.737	-	12.5	20	65	-.01

* Value outside of QC limits.

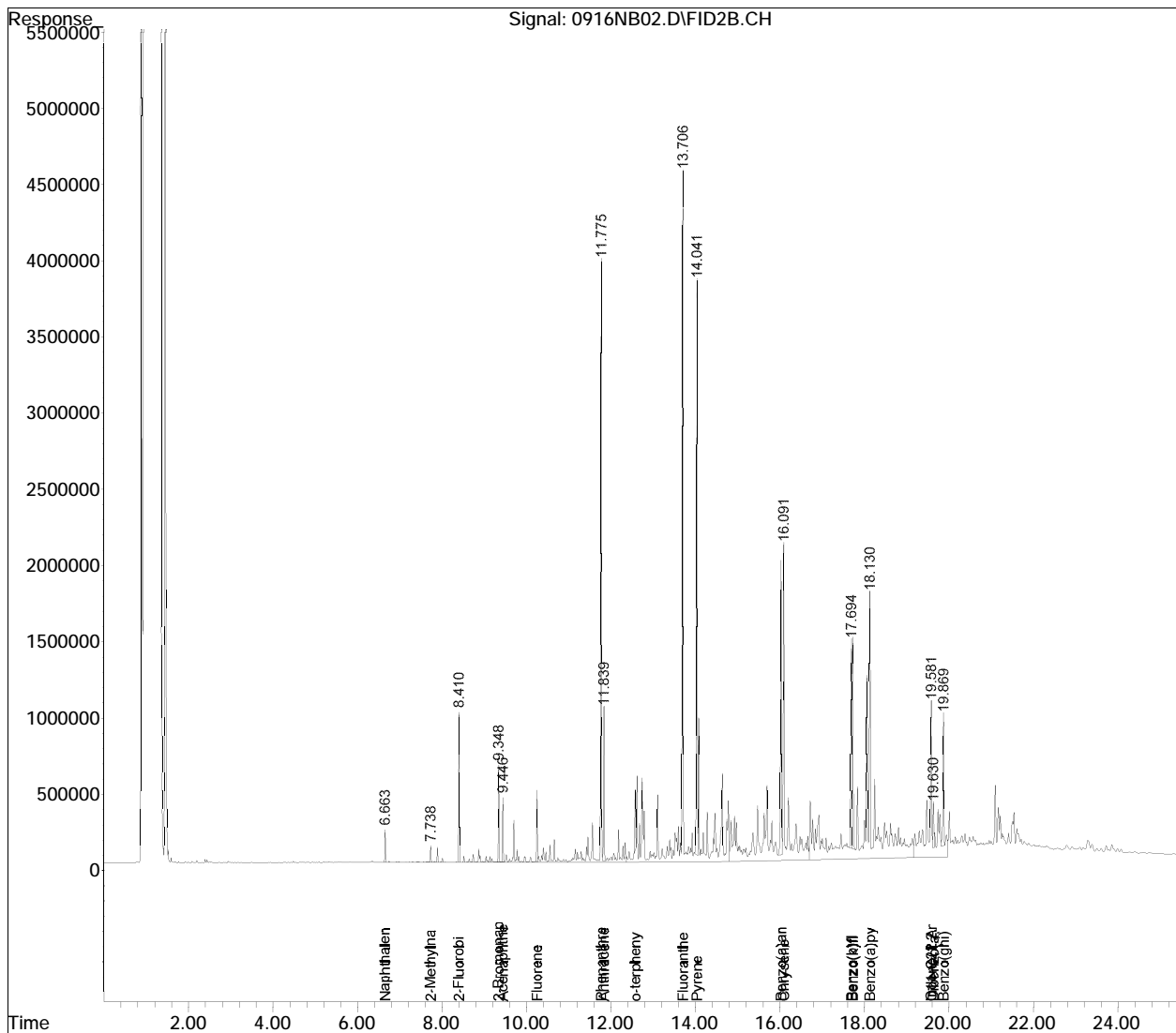


Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Petro10\190916n.sec\
Data File : 0916NB02.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2019 1:10 am
Operator : Petro10b:meo
Sample : 11940717-50d,42,6, rf2x fv3
Misc : wg1284851,wg1283558,ical12178
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 17 09:30:17 2019
Quant Method : I:\Petro10\190916n.sec\MAARO160318.M
Quant Title : MA EPH Aromatic
QLast Update : Sun Sep 15 15:13:40 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :





Consulting June 5, 2020
Engineers and Project 1802441
Scientists

Ms. Ellen Bellio
Senior Manager Waste Approvals
Waste Management – Turnkey Recycling and Environmental Enterprises
90 Rochester Neck Road
Rochester, NH 03839

Dear Ms. Bellio:

**Re: Supplemental Information and Revised Profile Form for PCB-Contaminated Soil and Asphalt Disposal at Waste Management Turnkey Landfill, Rochester, NH
WM Profile # 497552NH
Former Tombarello Property
Lawrence, Massachusetts
MassDEP RTN 3-18126**

This letter and attached revised Waste Management EZ Profile Form (Appendix A) responds to Waste Management's comments on our May 1, 2020 letter. Our understanding of Waste Management's comments and the additional information required is based on our communications with Mr. Dan Walsh of W.L. French Excavating Corporation, the Contractor for the project.

Waste Management has assigned Profile # 497552NH to the soil and asphalt that is the subject of this request.

Clarification of Soil Data

All soil data representative of soil proposed for disposal at Turnkey Recycling and Environmental Enterprises (TREE) in Rochester, New Hampshire are summarized in attached Tables 1 and 3. As requested, we have added the Waste Management Profile # to the top of the tables. Laboratory sample IDs for these samples are in Tables 1 and 3 and laboratory data reports were provided in our May 1, 2020 letter. Sample IDs have been added to Section E.1. of the profile.

Table 1 reflects the results of analysis of samples collected for the purpose of comprehensive characterization for offsite disposal. Sample Lot1-DISP01 was collected from location LOT1-DISP01 in Excavation Area #1 and samples Lot1-DISP02-Grab and Lot1-DISP02-Comp were collected from Excavation Area #2 (Fig. 2). Table 3 reflects the results of analysis of samples collected from soil boring SB-2 in Excavation Area #1 for the purpose of assessment of the nature and extent of site contamination. The data from SB-2 in Excavation Area #1 summarized in Table 3 was not provided in our May 1, 2020 letter.

As documented in the Self-Implementing PCB Cleanup and Disposal Plan (SIP) dated April 2020 prepared by GEI and provided to you as an attachment to our May 1, 2020 letter, soil excavated from Excavation Area #1 is not subject to the Toxic Substances Control Act (TSCA) and is

therefore not subject to EPA approval. Soil excavated from Excavation Area #2 is subject to TSCA and EPA Approval. We understand that French provided you with a copy of EPA's May 13, 2020 Approval of the SIP. However, a copy is attached for your convenience (Appendix B).

As shown in Tables 1 and 3, the maximum PCB concentration in soil planned for disposal at TREE is 0.16 milligrams per kilogram (mg/kg) in sample Lot1-DISP-02Comp, which was a composite sample collected from locations LOT1-DISP02A, LOT1-DISP02B, and LOT1-DISP02C, collected from Excavation Area #2 (Fig. 2).

We understand that there is some confusion because the SIP indicates that the maximum PCB concentration in "Site" soil is 0.4 mg/kg and the data we are providing you indicates the maximum PCB concentration is 0.16 mg/kg. The location where approximately 0.4 mg/kg (0.444 mg/kg as reported by the laboratory) was detected was a soil boring co-located with asphalt sample AS-3 (Fig. 2) from a depth of 0 to 0.5 feet. As shown in Fig. 2, this sample is not in an area planned for excavation and is not representative of soil planned for disposal at TREE.

Clarification of Asphalt Data

All asphalt data representative of asphalt proposed for disposal at TREE are summarized in attached Table 2. As requested, we have added the Waste Management Profile # to the top of the table. Laboratory sample IDs for these samples are in Table 2 and the laboratory data report was provided in our May 1, 2020 letter. Sample IDs have been added to Section E.1. of the profile.

As shown in Table 2 the maximum PCB concentration in asphalt proposed for disposal at TREE is 1.61 mg/kg, which was a duplicate sample collected from location AS-2 (Fig. 2). All asphalt planned for removal and offsite disposal is subject to TSCA and EPA approval. Fig. 2 has been updated to reflect that soil in Excavation Area #1 is not subject to TSCA and soil in Excavation Area #2 is subject to TSCA.

Based on our understanding of the property history, past use of the area where asphalt will be removed and is proposed for disposal at TREE was limited to property entrance, parking, and potentially administrative uses. Metals recycling operations did not take place on this portion of the property. Therefore, sampling of asphalt was only conducted to evaluate compliance with TSCA.

Clarification of Soil and Asphalt Volumes

We estimate approximately 87 cubic yards (140 tons) of soil will be excavated for offsite disposal at TREE. Should additional soil removal be required, disposal of up to 400 tons of soil could be requested with the provided soil data.

We estimate approximately 330 cubic yards (627 tons) of asphalt will be removed for offsite disposal at TREE.

Based on the above, the total volume of soil and asphalt proposed for disposal at TREE is 417 cubic yards. Once we have received confirmation of acceptance of the material at TREE, we will finalize the Massachusetts Department of Environmental Protection (MassDEP) Bill of Lading (BOL; BWSC112) and will revise the BOL to reflect a total of 417 cubic yards of material.

Ms. Ellen Bellio

-3-

June 5, 2020


Release Abatement Measure Plan

We expect to finalize and submit the RAM Plan to MassDEP during the week of June 8, 2020. We will submit a copy of the final RAM Plan at that time.

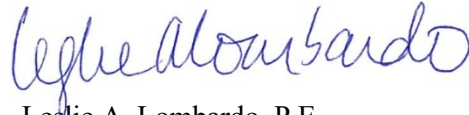
Please contact Ileen Gladstone at 781-424-9924 or igladstone@geiconsultants.com or Leslie Lombardo at 339-221-3351 or llombardo@geiconsultants.com, if you have any questions regarding this letter.

Sincerely,

GEI CONSULTANTS, INC.



Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President



Leslie A. Lombardo, P.E.
Project Manager

LAL/ISG;jam

Attachments

c: Pedro Soto, City of Lawrence

Tables

For Profile 497552NH

Table 1. Chemical Testing Results - Soil Disposal Characterization Samples - Lot 1
Former Tombarello Site
Lawrence, Massachusetts

					Sample ID:	1802441-Lot1-DISP01	1802441-Lot1-DISP02-Grab	1802441-Lot1-DISP02-Comp
					Sample Location:	Lot1-DISP01	Lot1-DISP02B	Lot1-DISP02A, B, C (Composite)
					Sampling Date:	03/12/2020	03/12/2020	03/12/2020
					Sample Depth (ft):	1 - 7	1 - 3	1 - 3
					Lab Sample ID:	20C0466-01	20C0466-02	20C0466-03
Analyte	Method	Units	Reuse Levels for In-State Unlined Landfill	Reuse Levels for In-State Lined Landfill				
Volatile Organic Compounds (VOCs)	8260	mg/kg						NT
1,1,2,2-Tetrachloroethane			NS	NS	0.0059		< 0.0013	
Acetone			NS	NS	< 0.0068	G	0.123	
Methyl Ethyl Ketone (2-Butanone)			NS	NS	< 0.0068		0.0154	
Tetrachloroethene			NS	NS	0.0089		< 0.0032	
Total VOCs			4	10	0.0148		0.1384	
Semi-Volatile Organic Compounds (SVOCs)	8270	mg/kg						NT
2-Methylnaphthalene			NS	NS	< 0.324			0.298
Acenaphthylene			NS	NS	< 0.752			1.4
Anthracene			NS	NS	< 1.50			2.3
Benzo(a)anthracene			NS	NS	2.28			5.58
Benzo(a)pyrene			NS	NS	2.52			5.77
Benzo(b)fluoranthene			NS	NS	2.42			4.97
Benzo(g,h,i)perylene			NS	NS	1.75			3.21
Benzo(k)fluoranthene			NS	NS	1.72			4
Chrysene			NS	NS	2.3			5.41
Dibenzo(a,h)anthracene			NS	NS	0.575			1.16
Fluoranthene			NS	NS	4.54			11.1
Fluorene			NS	NS	< 1.50			0.826
Indeno(1,2,3-cd)pyrene			NS	NS	1.5			3.07
Phenanthrene			NS	NS	2.43			8.3
Pyrene			NS	NS	4.39			10.8
Pyridine			NS	NS	<7.52			<3.44
Total SVOCs			100	100	26.425			68.194
Petroleum Hydrocarbons	8100M	mg/kg						NT
Total petroleum hydrocarbons			2,500	5,000	352			876
Polychlorinated Biphenyls (PCBs)	8082	mg/kg						NT
Aroclor 1242			NS	NS	< 0.06			0.1
Aroclor 1260			NS	NS	< 0.06			0.06
Total PCBs			2	2	ND			0.16
Total Metals		mg/kg						NT
Arsenic	6010		40	40	6.61			4.93
Barium	6010		NS	NS	171			57.3
Cadmium	6010		30	80	1.17			< 0.45
Chromium	6010		1000	1000	33.9			15.6
Lead	6010		1000	2000	392			185
Mercury	6010		10	10	0.559			0.059
Selenium	6010		NS	NS	< 4.41			< 4.48
Silver	6010		NS	NS	< 0.44			< 0.45
TCLP Metals	1311	mg/L						NT
Lead			5	5	0.281			1.26
Other								
pH	9045	S.U.	NS	NS	7.75		NT	7.15
Flashpoint	1010	°F	NS	NS	> 200		NT	> 200
Reactive Cyanide	7.3.3.2	mg/kg	NS	NS	< 2.0		NT	< 2.0
Reactive Sulfide	7.3.4.1	mg/kg	NS	NS	< 2.0		NT	< 2.0
Solids, Percent	2540G	%	NS	NS	88		93	93

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
3. Unlined and lined landfill disposal criteria are from MassDEP Policy #COMM-97-001, dated August 15, 1997.
4. NT = The sample was not tested for this analyte.
5. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
6. NS = No disposal facility criteria has been established for this analyte.
- 7 mg/kg = milligrams per kilogram
8. mg/L = milligrams per liter
- 9 S.U. = standard units.
10. deg F = degrees Fahrenheit.
11. Soil samples for VOC analysis were preserved in the field with deionized water.

Validators Qualifiers:

- G The result is estimated due to duplicate precision outside control limits.

For Profile 497552NH

Table 2. Chemical Testing Results - Asphalt Samples
Former Tombarello Site
Lawrence, Massachusetts

			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Location Name			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Sample Name			AS-1	AS-2	AS-2	AS-3	AS-4
Sample Depth (in):			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sample Date			9/3/2019	9/3/2019	9/3/2019	9/3/2019	9/3/2019
Parent Sample					AS-2		
Lab Sample ID:			L1940717-05	L1940717-06	L1940717-09	L1940717-07	L1940717-08
Analyte	Units	CAS No.					
Polychlorinated Biphenyls (PCBs)	mg/kg						
Aroclor 1260		11096-82-5	0.986	0.508	1.61	0.184	0.354
Total PCBs		1336-36-3	0.986	0.508	1.61	0.184	0.354

Notes:

1. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
2. in = inches
3. mg/kg = milligrams/kilogram.
4. CAS No. = Chemical Abstracts Service Number
5. Bolding indicates the detected concentration is greater than 1 mg/kg.

For Profile 497552NH

Table 3. Chemical Testing Results - Additional Soil Samples Excavation Area #1
Former Tombarello Property - Lot 1, Northwest Portion
Lawrence, Massachusetts

Location Name			AS/SB-2	AS/SB-2	AS/SB-2	AS/SB-2	AS/SB-2
Sample Name			SB-2 (0-0.5)	SB-2 (1-2)	SB-2 (2-3)	SB-2 (3-5)	SB-2 (5-7)-2
Start Depth			0	1	2	3	5
End Depth			0.5	2	3	5	7
Depth Unit			ft	ft	ft	ft	ft
Sample Date			9/4/2019	9/4/2019	9/4/2019	9/4/2019	9/4/2019
Lab Sample ID			L1940717-22	L1940717-23	L1940717-24	L1940717-25	L1940717-27
Analyte	Units	CAS No.					
Volatile Organic Compounds	mg/kg		NT			NT	
Acetone		67-64-1		0.019	0.12		0.44 J
Total 1,2-Dichloroethene		540-59-0		< 0.00085	< 0.00097		0.13
cis-1,2-Dichloroethene		156-59-2		< 0.00085	< 0.00097		0.13
Methyl ethyl ketone (2-Butanone)		78-93-3		< 0.0085	< 0.0097		< 0.013
Naphthalene		91-20-3		0.024	< 0.0039		< 0.0053
Tetrachloroethene (PCE)		127-18-4		0.0014	0.00061		0.34
Trichloroethene (TCE)		79-01-6		< 0.00042	< 0.00048		0.13
EPH Compounds	mg/kg		NT			NT	
C9-C18 Aliphatics		EPH918		ND	ND		ND
C19-C36 Aliphatics		EPH1936		418	17.0		56800
C11-C22 Aromatics (Adjusted)		AROM11-22		265	102		1120
Acenaphthene		83-32-9		< 0.728	0.930		< 15.9
Anthracene		120-12-7		1.24	1.44		< 15.9
Benzo(a)anthracene		56-55-3		3.49	5.54		< 15.9
Benzo(b)fluoranthene		205-99-2		2.96	4.36		< 15.9
Benzo(k)fluoranthene		207-08-9		2.89	4.34		< 15.9
Benzo(g,h,i)perylene		191-24-2		1.83	2.30		< 15.9
Benzo(a)pyrene		50-32-8		3.21	4.63		< 15.9
Chrysene		218-01-9		3.46	5.61		< 15.9
Dibenz(a,h)anthracene		53-70-3		< 0.728	0.775		< 15.9
Fluoranthene		206-44-0		7.38	10.3		25.2
Fluorene		86-73-7		< 0.728	0.689		< 15.9
Indeno(1,2,3-cd)pyrene		193-39-5		2.11	2.77		< 15.9
Naphthalene		91-20-3		< 0.728	< 0.353		< 15.9
Phenanthrene		85-01-8		5.13	7.08		24.0
Pyrene		129-00-0		6.52	8.71		22.3
Polychlorinated Biphenyls (PCBs)	mg/kg						NT
Aroclor 1248		12672-29-6	< 0.0339	< 0.035	< 0.0363	< 0.038	
Aroclor 1254		11097-69-1	0.0403	< 0.035	< 0.0363	< 0.038	
Aroclor 1260		11096-82-5	< 0.0339	0.083	< 0.0363	< 0.038	
Aroclor 1268		11100-14-4	< 0.0339	< 0.035	< 0.0363	< 0.038	
Total PCBs		1336-36-3	0.0403	0.083	< 0.0363	< 0.038	
Metals	mg/kg		NT			NT	
Arsenic		7440-38-2		9.19	8.41		7.93
Barium		7440-39-3		132	98.5		126
Cadmium		7440-43-9		0.851	0.875		1.33
Chromium		7440-47-3		67.9	47.7		41.3
Hexavalent Chromium (Cr VI)		18540-29-9		< 0.885	1.13		< 0.985
Lead		7439-92-1		215	149		698
Mercury		7439-97-6		0.330	2.03		0.393
Selenium		7782-49-2		NT	NT		NT
Silver		7440-22-4		< 0.436	< 0.425		< 0.493
Zinc		7440-66-6		123	116		512
Other							
Percent Solids	%	SOLIDS	96.8	90.4	89.2	86.0	81.2
Oxidation Reduction Potential	millivolts	ORP	NT	140	160	NT	150
pH	s.u.	pH	NT	7.9	7.8	NT	7.6

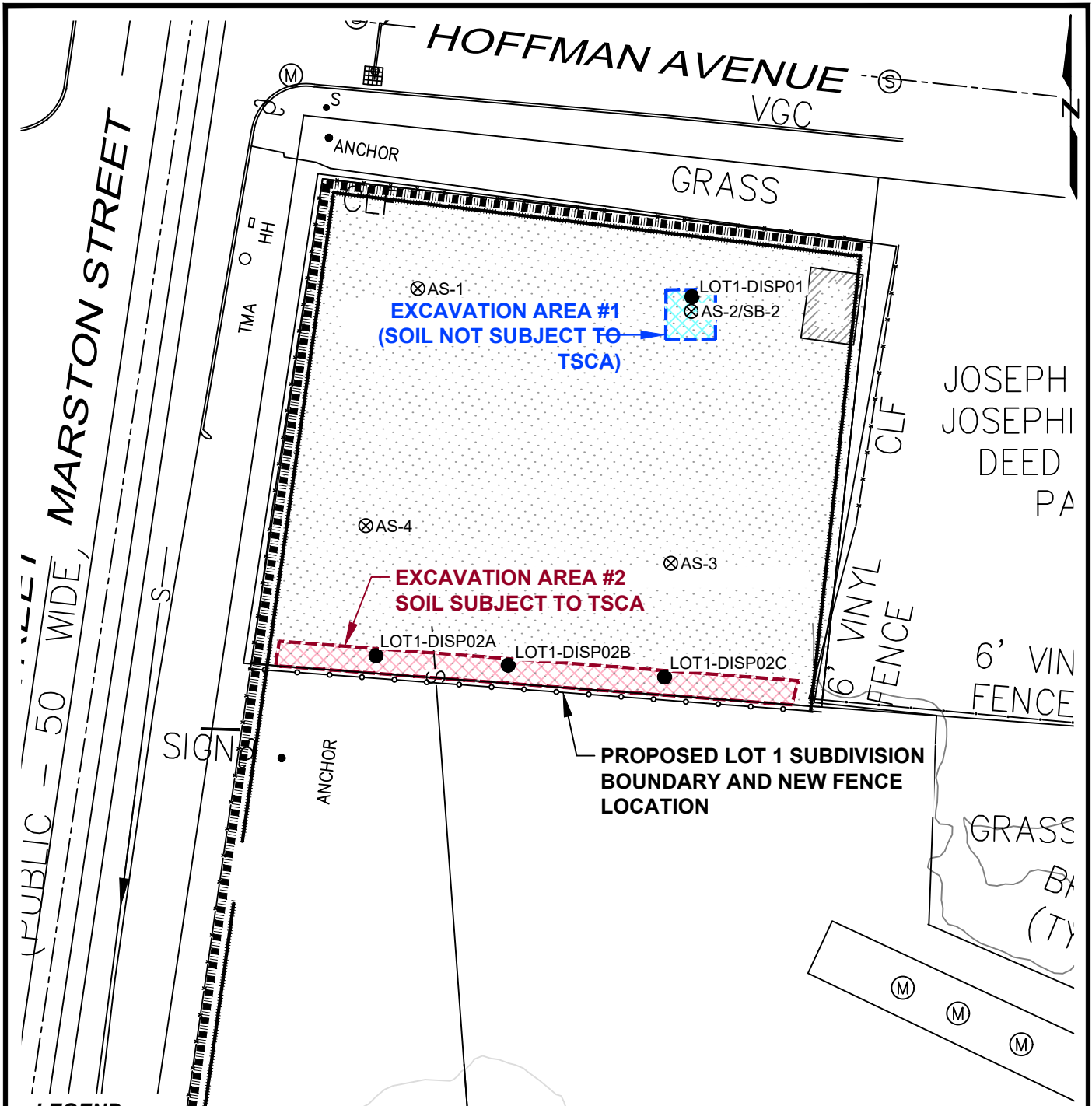
Notes:

1. Only analytes detected in at least one sample are shown.
2. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
3. mg/kg = milligrams/kilogram or parts per million (ppm)
4. EPH = Extractable Petroleum Hydrocarbon
5. CAS No. = Chemical Abstracts Service Number
6. ND = The analyte was not detected at a concentration above the laboratory reporting limit.

Qualifying Notes:

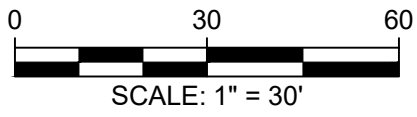
- J The reported result is below the laboratory reporting limit and is estimated.


Figure



LEGEND:

- ⊗ ASPHALT SAMPLE, GEI 2020 (SOIL BORING SB-2 CO-LOCATED WITH AS-2)
- SOIL DISPOSAL CHARACTERIZATION SAMPLE, GEI 2020
- [Red hatched box] EXCAVATION AREA #2 (SOIL SUBJECT TO TSCA)
- [Blue hatched box] EXCAVATION AREA #1 (SOIL NOT SUBJECT TO TSCA)
- [Dotted box] EXTENT OF ASPHALT SURFACE COVER REMOVAL (SUBJECT TO TSCA)
- [Dashed line] PRIVACY SCREEN INSTALLED ON EXISTING FENCING



Former Tombarello Property Lawrence, Massachusetts	 GEI Consultants	LOT 1 EXCAVATION AREAS AND DISPOSAL SAMPLE LOCATIONS
City of Lawrence Lawrence, Massachusetts		

Appendix A

Waste Management EZ Profile Form - Revised



Requested Facility: Turnkey Landfill Unsure Profile Number: 497552NH
 Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: City of Lawrence
 2. Site Address: 207 Marston Street
 (City, State, ZIP) Lawrence, MA 01841
 3. County: Middlesex
 4. Contact Name: Pedro Soto
 5. Email: psoto@cityoflawrence.com
 6. Phone: 978-620-3501 7. Fax: _____
 8. Generator EPA ID: _____ N/A
 9. State ID: _____ N/A

C. MATERIAL INFORMATION

1. Common Name: PCB Remediation Waste, PCBs <50 mg/kg: Soil and Asphalt
 Describe Process Generating Material: See Attached
 [Empty box for description]
 2. Material Composition and Contaminants: See Attached

1. Narrowly to widely graded sand with gravel and silty sand (max PCB conc. 0.16 mg/kg	20%
2. in sample Lot1-DISP02-COMP composited from Lot1-DISP02A, Lot1-DISP02B, and Lot1-DISP02C)	
3. Asphalt debris (max PCB conc. 1.61 mg/kg at AS-2)	80%
4. Trace brick and slag	<1%
Total comp. must be equal to or greater than 100%	≥100%

 3. State Waste Codes: _____ N/A
 4. Color: brown, black, gray
 5. Physical State at 70°F: Solid Liquid Other: _____
 6. Free Liquid Range Percentage: _____ to _____ N/A
 7. pH: _____ to _____ N/A
 8. Strong Odor: Yes No Describe: _____
 9. Flash Point: <140°F 140°-199°F ≥200° N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached Yes
 Please identify applicable samples and/or lab reports:
 For profile 497552NH Soil Sample IDs 1802441-Lot1-DISP01, 1802441-Lot1-DISP02-Grab, 1802441-Lot1-DISP02-Comp, SB-2 (0-0.5), SB-2 (1-2), SB-2 (2-3), SB-2 (3-5), and SB-2 (5-7)-2. Asphalt sample IDs: AS-1, AS-2, AS-DUP-1, AS-3, AS-4. All samples in attached Tables 1-3 are applicable.
 2. Other information attached (such as MSDS)? Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Pedro Soto Date: 6/5/2020
 Title: Planning Director
 Company: City of Lawrence

B. BILLING INFORMATION

SAME AS GENERATOR

1. Billing Name: W.L. French Excavating Corp.
 2. Billing Address: 14 Sterling Rd
 (City, State, ZIP) Billerica, MA
 3. Contact Name: Dan Walsh
 4. Email: dwalsh@wlfrench.com
 5. Phone: 978-663-2623 6. Fax: _____
 7. WM Hauled? Yes No
 8. P.O. Number: _____
 9. Payment Method: Credit Account Cash Credit Card

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? Yes* No
 Code: _____
 2. State Hazardous Waste? Yes No
 Code: _____
 3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes* No
 4. Contains Underlying Hazardous Constituents? Yes* No
 5. From an industry regulated under Benzene NESHAP? Yes* No
 6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
 7. CERCLA or State-mandated clean-up? Yes* No
 8. NRC or State-regulated radioactive or NORM waste? Yes* No
***If Yes, see Addendum (page 2) for additional questions and space.**
 9. Contains PCBs? → If Yes, answer a, b and c. Yes No
 a. Regulated by 40 CFR 761? Yes No
 b. Remediation under 40 CFR 761.61 (a)? Yes No
 c. Were PCB imported into the US? Yes No
 10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
 11. Contains Asbestos? Yes No
 → If Yes: Non-Friable Non-Friable - Regulated Friable

F. SHIPPING AND DOT INFORMATION

1. One-Time Event Repeat Event/Ongoing Business
 2. Estimated Quantity/Unit of Measure: 417
 Tons Yards Drums Gallons Other: _____
 3. Container Type and Size: end dump trailer
 4. USDOT Proper Shipping Name: _____ N/A

Certification Signature



EZ Profile™ Addendum



Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: _____

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): _____ If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1): _____ If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
Total composition must be equal to or greater than 100%	
	≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

- b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? Yes No
- c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4. Yes No
- d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? Yes No
 → If Yes, please check **one** of the following:
 - Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))
 - Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.

2. State Hazardous Waste → Please list all state waste codes: _____

3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:
 Delisted Hazardous Waste Excluded Waste under 40 CFR 261.4 → Specify Exclusion: _____
 Treated Hazardous Waste Debris Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.

- a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue. Yes No
- b. Does this material contain benzene? Yes No
 1. If yes, what is the flow weighted average concentration? _____ ppmw
- c. What is your facility's current total annual benzene quantity in Megagrams? <1 Mg 1–9.99 Mg ≥10 Mg
- d. Is this waste soil from a remediation? Yes No
 1. If yes, what is the benzene concentration in remediation waste? _____ ppmw
- e. Does the waste contain >10% water/moisture? Yes No
- f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? Yes No
- g. Is material exempt from controls in accordance with 40 CFR 61.342? Yes No
 → If yes, specify exemption: _____
- h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? Yes No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination? Yes No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.

8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: _____



Additional Profile Information

Profile Number: _____

C. MATERIAL INFORMATION

Material Composition and Contaminants (Continued from page 2):

If more space is needed, please attach additional pages.

10.		
11.		
12.		
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15.		
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29.		
30.		
31.		
32.		
33.		
34.		
35.		
36.		
37.		
38.		
39.		
40.		
Total composition must be equal to or greater than 100%		≥100%

D. REGULATORY INFORMATION

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers (Continued from page 2):

2. Form Code:

3. Source Code:

Additional Profile Information



Profile Number: _____

F. SHIPPING AND DOT INFORMATION

4. USDOT Proper Shipping & Technical Name (Continued from page 1):

2.	<input type="checkbox"/> N/A
3.	<input type="checkbox"/> N/A
4.	<input type="checkbox"/> N/A
5.	<input type="checkbox"/> N/A
6.	<input type="checkbox"/> N/A
7.	<input type="checkbox"/> N/A
8.	<input type="checkbox"/> N/A
9.	<input type="checkbox"/> N/A
10.	<input type="checkbox"/> N/A
11.	<input type="checkbox"/> N/A
12.	<input type="checkbox"/> N/A
13.	<input type="checkbox"/> N/A
14.	<input type="checkbox"/> N/A
15.	<input type="checkbox"/> N/A
16.	<input type="checkbox"/> N/A
17.	<input type="checkbox"/> N/A
18.	<input type="checkbox"/> N/A
19.	<input type="checkbox"/> N/A
20.	<input type="checkbox"/> N/A
21.	<input type="checkbox"/> N/A
22.	<input type="checkbox"/> N/A
23.	<input type="checkbox"/> N/A
24.	<input type="checkbox"/> N/A
25.	<input type="checkbox"/> N/A
26.	<input type="checkbox"/> N/A
27.	<input type="checkbox"/> N/A
28.	<input type="checkbox"/> N/A
29.	<input type="checkbox"/> N/A
30.	<input type="checkbox"/> N/A
31.	<input type="checkbox"/> N/A
32.	<input type="checkbox"/> N/A
33.	<input type="checkbox"/> N/A
34.	<input type="checkbox"/> N/A
35.	<input type="checkbox"/> N/A
36.	<input type="checkbox"/> N/A
37.	<input type="checkbox"/> N/A
38.	<input type="checkbox"/> N/A
39.	<input type="checkbox"/> N/A
40.	<input type="checkbox"/> N/A
41.	<input type="checkbox"/> N/A
42.	<input type="checkbox"/> N/A
43.	<input type="checkbox"/> N/A
44.	<input type="checkbox"/> N/A
45.	<input type="checkbox"/> N/A
46.	<input type="checkbox"/> N/A
47.	<input type="checkbox"/> N/A
48.	<input type="checkbox"/> N/A
49.	<input type="checkbox"/> N/A
50.	<input type="checkbox"/> N/A
51.	<input type="checkbox"/> N/A



Additional Profile Information

Profile Number: _____

C. MATERIAL INFORMATION

3. State Waste Codes (Continued from page 1):

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Appendix B

EPA Approval of Self-Implementing PCB Cleanup and Disposal Plan



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

VIA ELECTRONIC MAIL

The City of Lawrence
Attn: Pedro Soto, Planning Director
Office of Planning and Development
12 Methuen Street
Lawrence, Massachusetts 01840
psoto@cityoflawrence.com

Re: PCB Cleanup and Disposal Approval under 40 CFR §§ 761.61(a) and (c)
Former Tombarello Property – Lot 1, Northwest Portion
Lawrence, Massachusetts

Dear Mr. Soto:

This is in response to the City of Lawrence (“the City”) Notification¹ to address *PCB remediation waste* (i.e., PCB-contaminated soil and asphalt) in the Northwest Portion of Lot 1 (“the Site”), located at 207 Marston Street, Lawrence, Massachusetts. PCBs are present in asphalt and in certain soil at concentrations that exceed the allowable PCB level for *unrestricted use* under the federal PCB regulations at 40 CFR § 761.61(a).

The City has requested approval to clean up and dispose of *PCB remediation waste* with greater than (“>”) 1 part per million (“ppm”) PCBs located at the Site under 40 CFR §§ 761.61(a) and (c). In its Notification, the City has proposed the following work:

- Remove asphalt on the Site and dispose off-site as a less than (“<”) 50 ppm *PCB remediation waste* in a RCRA non-hazardous waste landfill in accordance with 40 CFR § 761.61(a)(5)(i)(B)(2)(ii);
- Excavate soil located along the southern boundary of the Site to a depth of approximately 3-feet deep and 5-feet wide, and dispose off-site as a < 50 ppm *PCB remediation waste* in a RCRA non-hazardous waste landfill in accordance with 40 CFR § 761.61(a)(5)(i)(B)(2)(ii);
- Conduct post-excavation soil sampling at a frequency of one sample every 10 linear feet along each sidewall and the excavation bottom;
- Backfill the soil excavation area with geotextile separation fabric and clean imported fill; and,

¹ Information was submitted on behalf of the City by GEI Consulting Engineers & Scientists. The information was provided to satisfy the notification requirements under 40 CFR §§ 761.61(a) and (c). Information was provided dated April 2020 (Self-Implementing PCB cleanup and disposal Plan) and shall be referred to as “the Notification”.

- Construct a new fence along the proposed subdivision boundary to separate the Site from the remainder of Lot 1.

The City's plan meets the requirements as specified under 40 CFR § 761.61(a) with exception of the sampling requirements. Based on the Site history and the PCB concentrations identified, EPA has concluded that: 1) the data is sufficient to support off-site disposal of the waste; and, 2) that the proposed verification sampling is reasonable to confirm PCB concentrations remaining within the soil excavation area. EPA has determined that the use of the alternative sampling for waste disposal and for verification sampling will not present an unreasonable risk of injury to health or the environment. EPA applies this no unreasonable risk standard in accordance with the PCB regulations at 40 CFR § 761.61(c), and the Toxic Substances Control Act, at 15 USC § 2605(e).

The City may proceed with its cleanup and disposal plan in accordance with §§ 761.61(a) and (c); its Notification; and this Approval, subject to the conditions of Attachment 1. Please be aware that this Approval requires collection of at least one sample at the location where PCBs greater than (“>”) 1 ppm were identified at 5 feet from the Site southern boundary. See Attachment 1, Condition 13.a.ii.

This Approval only addresses cleanup and disposal of the *PCB remediation waste* identified in the Notification. If the City identifies other PCB-contaminated wastes within the Site area subject to cleanup and disposal under the PCB regulations, the City will be required to notify EPA and to clean up the PCB-contaminated wastes in accordance with 40 CFR Part 761 (see Approval Condition 1.) This Approval does not address PCB contamination that is located on the remainder of Lot 1 or on Lot 2 as shown in Attachment 2.

EPA encourages the compliance with greener cleanup practices for all cleanup projects and recommends adherence to the ASTM Standard Guide to Greener Cleanups E2893-16 (“Guide”) for work conducted under this Approval and the Notification. Greener Cleanups are the practice of integrating options that minimize the environmental impacts of cleanup actions in order to incorporate practices that maximize environmental and human benefit. Please see Section 6 of the Guide for the Best Management Practices (“BMP”) Process published in May 2016. (*See www.astm.org/Standards/E2893.htm for additional information*). EPA encourages you to review the Guide and implement any practices that are feasible. If implemented, the PCB completion report (see Attachment 1, Condition 21) should include a section on BMP Documentation, as described in Section 6.6.5 of the Guide.

Please be aware that this Approval does not release the City from any applicable requirements of federal, state or local law, including those requirements related to groundwater monitoring or to remediation of other contaminants at the Site by the Massachusetts Department of Environmental Protection (“MassDEP”).

Questions and correspondence regarding this Approval should be directed to:

Kimberly N. Tisa, PCB Coordinator
United States Environmental Protection Agency
5 Post Office Square, Suite 100 (LCRD7-2)
Boston, Massachusetts 02109-3912
Telephone: (617) 918-1527

EPA shall not consider this project complete until it has received all submittals required under this Approval. Please be aware that upon EPA receipt and review of the submittals, EPA may request any additional information necessary to establish that the work has been completed in accordance with 40 CFR Part 761, the Notification, and this Approval.

Sincerely,

Nancy Barmakian, Director
Land, Chemicals and Redevelopment Division

Attachment 1: PCB Approval Conditions
Attachment 2: Figure 2. Property Layout
Attachment 3: Figure 9. Cleanup Plan

cc: Chris Lombard, EPA Brownfields Program (Lombard.Chris@epa.gov)
MassDEP NERO, RTN: 3-18126 (Joanne.Fagan@state.ma.us)
Leslie Lombardo, GEI (LLombardo@geiconsultants.com)
File

ATTACHMENT 1

PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS FORMER TOMBARELLO PROPERTY - NORTHWEST PORTION LOT 1 207 MARSTON STREET / LAWRENCE, MASSACHUSETTS

GENERAL CONDITIONS

1. This Approval is granted under the authority of Section 6(e) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e), and the PCB regulations at 40 CFR Part 761, and applies solely to the *PCB remediation waste* (i.e., asphalt and soil along the southern boundary) located in the “Northwest Portion” of Lot 1 (“the Site”) as shown on Figure 2 and Figure 9 of the Notification.² (See **Attachments 2 and 3**).
 - a. In the event that the City of Lawrence (“the City”) identifies other PCB-contaminated wastes (i.e., PCB waste not identified in the Notification) subject to cleanup and disposal under the PCB regulations, the City will be required to notify EPA and to clean up the PCB-contaminated wastes in accordance with 40 CFR Part 761.
 - b. The City may submit a separate plan to address the PCB contamination or may propose to EPA to modify the Notification to incorporate cleanup of the PCBs under this Approval in accordance with Condition 16.
2. The City shall conduct on-site activities in accordance with the conditions of this Approval and with the Notification.
3. In the event that the cleanup plan described in the Notification differs from the conditions specified in this Approval, the conditions of this Approval shall govern.
4. The terms and abbreviations used herein shall have the meanings as defined in 40 CFR § 761.3 unless otherwise defined within this Approval.
5. The City must comply with all applicable federal, state and local regulations in the storage, handling, and disposal of all PCB wastes, including PCBs, PCB Items and decontamination wastes generated under this Approval. In the event of a new spill during response actions, the City shall contact EPA within 24 hours for direction on sampling and cleanup requirements.
6. The City is responsible for the actions of all officers, employees, agents, contractors, subcontractors, and others who are involved in activities conducted under this Approval. If at any time the City has or receives information indicating that it or any other person has failed, or may have failed, to comply with any provision of this Approval, it must report the information to EPA in writing within 24 hours of having or receiving the information.

² Information was submitted on behalf of the City by GEI Consulting Engineers & Scientists. The information was provided to satisfy the notification requirements under 40 CFR §§ 761.61(a) and (c). Information was provided dated April 2020 (Self-Implementing PCB cleanup and disposal Plan) and shall be referred to as “the Notification”.

7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by the City are authorized to conduct the activities set forth in the Notification. The City is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct these activities in accordance with all applicable federal, state and local statutes and regulations.
8. This Approval does not: 1) waive or compromise EPA's enforcement and regulatory authority; 2) release the City from compliance with TSCA or any other applicable requirements of federal, state or local law; or 3) release the City from liability for, or otherwise resolve any violations of TSCA or of other federal, state or local law.
9. Failure to comply with the Approval conditions specified herein shall constitute a violation of the requirement in 40 CFR § 761.50(a) to store or dispose of PCB waste in accordance with 40 CFR Part 761 Subpart D.

NOTIFICATION AND CERTIFICATION CONDITIONS

10. This Approval may be revoked if the EPA does not receive written notification from the City of its acceptance of the conditions of this Approval within 10 business days of receipt.
11. The City shall notify EPA in writing of the scheduled date of commencement of on-site activities at least 1 business day prior to conducting any work under this Approval.
12. Prior to initiating onsite work under this Approval, the City shall submit the following information:
 - a. a certification signed by its selected remediation contractor, stating that the contractor has read and understands the Notification, and agrees to abide by the conditions specified in this Approval; and,
 - b. a certification signed by the selected analytical laboratory, stating that the laboratory has read and understands the sample extraction, analytical and quality assurance requirements specified in the Notification and in this Approval.

CLEANUP AND DISPOSAL CONDITIONS

13. The cleanup level for *PCB remediation waste* (i.e., soil) at the Site shall be less than or equal to (" \leq ") 1 part per million ("ppm").
 - a. Bulk *PCB remediation waste* (i.e., soil) verification samples shall be collected on a bulk basis (i.e., mg/Kg) and PCB analytical results reported on a dry-weight basis.
 - i) The verification sampling frequency shall be at least 1 sample every 10 linear feet, and samples shall be collected from the excavation bottom and sidewalls.

- ii) At least one sample shall be collected along the excavation sidewall area where PCBs greater than (“>”) 1 ppm were identified at approximately five feet from the Site southern boundary (i.e., SB-12 as shown on Figure 5 of the Notification).
 - b. Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846 for solid matrices and Method 3500B/3510C of SW-846 for aqueous matrices; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction or analytical method(s) is validated according to Subpart Q.
14. All PCB waste (regardless of concentration) generated as a result of the activities described in the Notification, excluding any decontaminated materials, shall be marked in accordance with § 761.40; stored in a manner prescribed in § 761.65; and, disposed of in accordance with 40 CFR § 761.61(a)(5), unless otherwise specified below:
- a. Decontamination wastes and residues shall be disposed of in accordance with 40 CFR § 761.79(g).
 - b. Moveable equipment, tools, and sampling equipment shall be decontaminated in accordance with either 40 CFR § 761.79(b)(3)(i)(A), § 761.79(b)(3)(ii)(A), or § 761.79(c)(2).
 - c. PCB-contaminated water generated during decontamination shall be decontaminated in accordance with 40 CFR § 761.79(b)(1) or disposed of under 40 CFR § 761.60.

INSPECTION, MODIFICATION AND REVOCATION CONDITIONS

- 15. The City shall allow any authorized representative of the Administrator of the EPA to inspect the Site, to inspect records, and to take samples as may be necessary to determine compliance with the PCB regulations and this Approval. Any refusal by the City to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.
- 16. Any proposed modification(s) in the plan, specifications, or information in the Notification must be submitted to EPA no less than 14 calendar days prior to the proposed implementation of the change. Such proposed modifications will be subject to the procedures of 40 CFR § 761.61(a)(3)(ii).
- 17. Any departure from the conditions of this Approval without prior, written authorization from the EPA may result in the revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.
- 18. Any misrepresentation or omission of any material fact in the Notification or in any records or reports may result in the EPA’s revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.

19. Approval for these activities may be revoked, modified or otherwise altered: if EPA finds a violation of the conditions of this Approval or of 40 CFR Part 761, including EPA's PCB Spill Cleanup Policy, or other applicable rules and regulations; or, if EPA finds that these activities pose an unreasonable risk of injury to health or the environment.

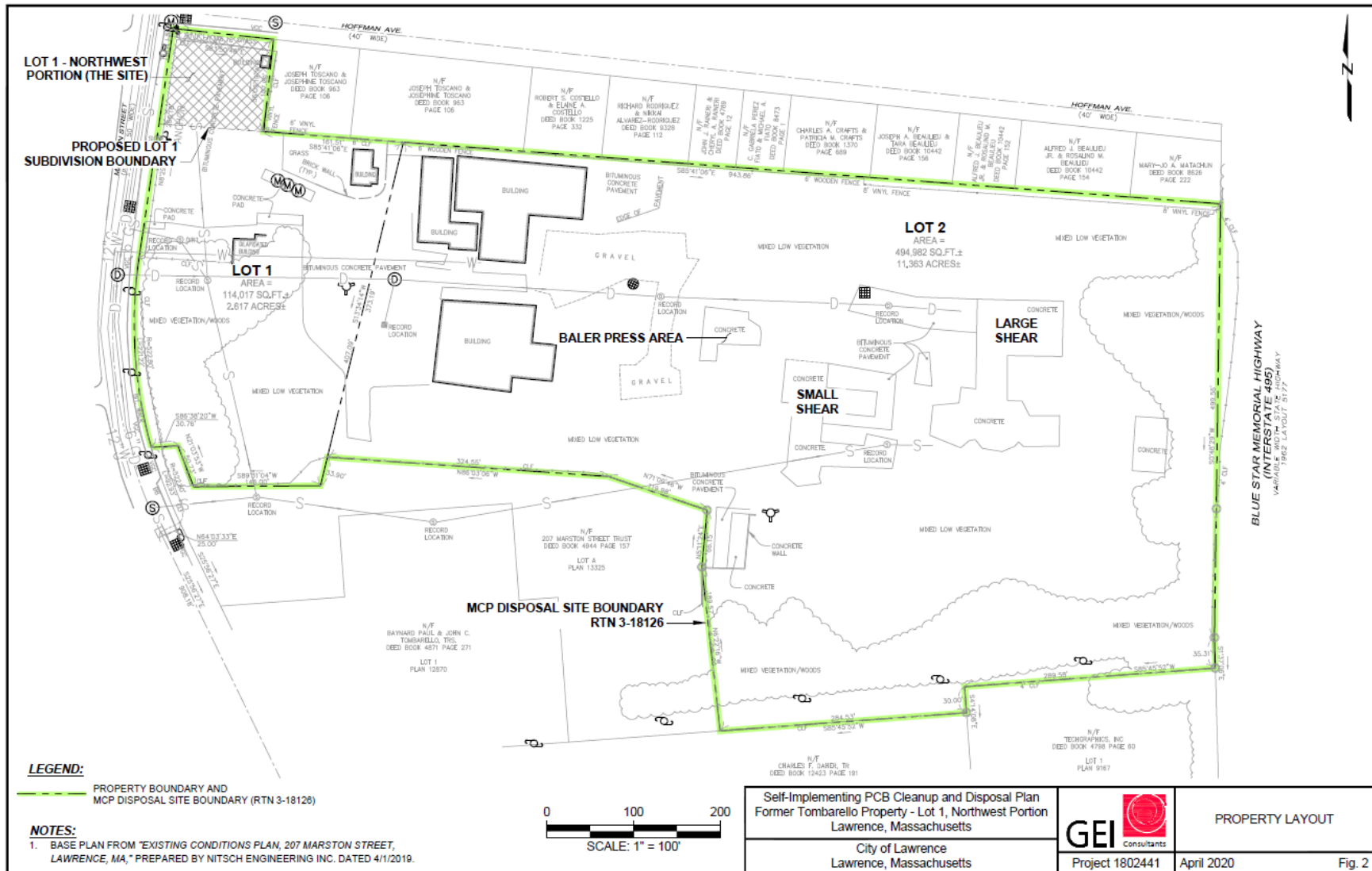
RECORDKEEPING AND REPORTING CONDITIONS

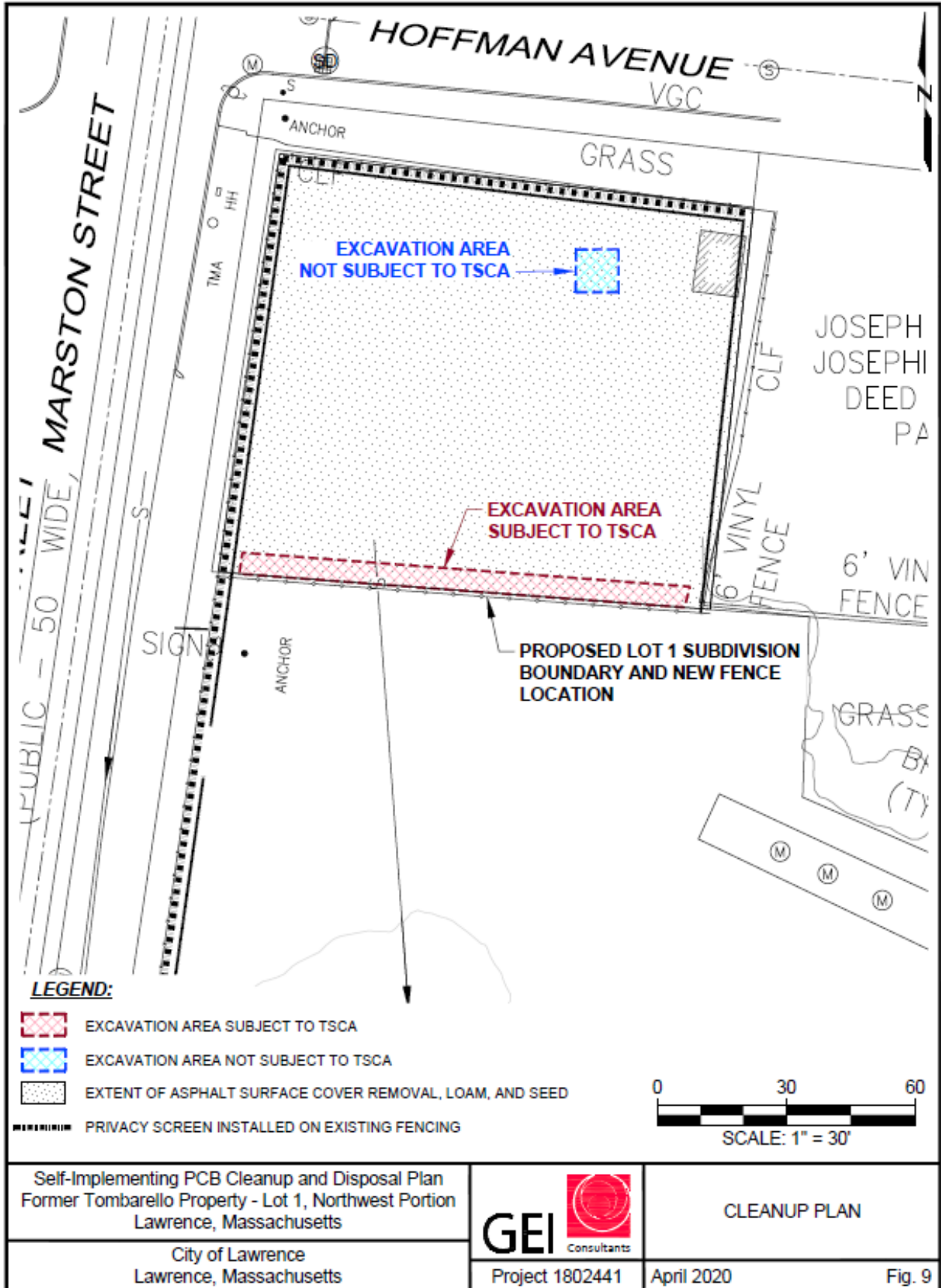
20. The City shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the cleanup and the analytical sampling shall be established and maintained by the City in one centralized location until such time as EPA authorizes, in writing, an alternative disposition for such records. All records shall be made available for inspection by authorized representatives of EPA.
21. The City shall submit a final completion report as both a hard copy and electronic version (e.g., CD-ROM), to the EPA within 60 days of completion of the activities authorized under this Approval. At a minimum, this completion report shall include: a short narrative of the project activities with photographic documentation and Greener Cleanups BMP documentation, if implemented; characterization and confirmation sampling analytical results; copies of the accompanying analytical chains of custody; field and laboratory quality control/quality assurance checks; an estimate of the quantity of PCB waste removed and disposed off-site; copies of manifests and bills of lading; and, copies of certificates of disposal or similar certifications issued by the disposer.
22. Required submittals shall be mailed to:

Kimberly N. Tisa, PCB Coordinator
United States Environmental Protection Agency
5 Post Office Square, Suite 100 (LCRD7-2)
Boston, Massachusetts 02109-3912
Telephone: (617) 918-1527

23. No record, report or communication required under this Approval shall qualify as a self-audit or voluntary disclosure under EPA audit, self-disclosure or penalty policies.

END OF ATTACHMENT 1





From: [Lombardo, Leslie](#)
To: [Dan Walsh](#)
Cc: [Gladstone, Ileen](#)
Subject: WM Profile# 497552NH, Fmr Tombarello Property Lot 1, Additional Information
Date: Monday, June 15, 2020 5:42:00 PM

Dan:

Please forward the below in answer to TREE's latest questions regarding the subject soil. Please let me know as soon as possible if TREE requires this information be submitted in a formal letter signed by the LSP, Ileen Gladstone, who is cc'd on this e-mail.

Ms. Bellio:

The following is in response to a request for additional clarification of soil from the Former Tombarello Property, Lot 1, Lawrence, Massachusetts, proposed for disposal at Turnkey Recycling and Environmental Enterprises (TREE) in Rochester, NH.

1. Please provide TCLP lead for samples L1940717-23, -24 and -27 [AS/SB-2 (1-2), AS-SB-2 (2-3) and AS-SB-2 (5-7)-2].

GEI Response: As indicated in our June 5, 2020 Supplemental Information letter, soil samples collected from SB-2 and listed in Table 3 attached to our June 5, 2020 letter, including:

Samples L1940717-23, -24 and -27 [AS/SB-2 (1-2), AS-SB-2 (2-3) and AS-SB-2 (5-7)-2]

were collected for the purpose of assessment of the nature and extent of contamination and were not collected for the purpose of disposal characterization. Therefore, these samples were not tested for TCLP lead.

To characterize the soil in this area proposed for excavation and offsite disposal we collected soil sample Lot1-DISP01 (Lab sample ID:20C0466-01) across the depth interval 1 to 7 feet, which is representative of the soil planned for disposal at TREE. This sample was tested for TCLP lead. The results of analysis of this sample are in Table 1 of our May 1, 2020 and June 5, 2020 letters.

2. Please provide the source of chlorinated VOCs in the three samples referenced in (1) above.

GEI Response: We used due diligence to characterize the soil for the presence of listed hazardous waste and characteristic hazardous waste in accordance with MassDEP Policy HW93-01.

Chemical testing performed on the soil in samples collected from boring SB-2 indicated the presence of cis-1,2-dichloroethene, tetrachloroethylene and trichloroethene (Table 3 in our June 5, 2020 letter); however, specific sources have not been identified, therefore it is not a listed hazardous waste and a contained in determination is not required. Chemical testing performed on the soil within the area of the proposed excavation did not indicate the presence of a listed hazardous waste nor did the soil exhibit a characteristic of hazardous waste. Due diligence has included field investigations and a review of available historic documents for the site.

Please contact me if you have any questions.

Leslie

GEI50

LESLIE A. LOMBARDO, P.E.

Project Manager

781.721.4016 cell: 339.221.3551

400 Unicorn Park Drive, Woburn, MA 01801



MassDEP RTN 3-18126
RAM Completion Report for Targeted Excavations,
Lots 1 and 2
Former Tombarello Site
207 Marston Street, Lawrence, Massachusetts
October 2020

Appendix D

Hazardous Waste Manifests (Lot 2 Soil and PPE)



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37674
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/14/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	86040 lb*
In	07/14/2020 10:22:10	MANUAL WT	awalke13		Tare	32340 lb*
Out	07/14/2020 10:22:10		awalke13		Net	53700 lb
			* Manual Weight		Tons	26.85

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	26.85	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	26.85	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MAD018426238	2. Page 1 of 3	3. Emergency Response Phone (800) 24-9300	4. Manifest Tracking Number 006524504 GBF
	5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978) 620-3504			

6. Transporter 1 Company Name GOULET TRUCKING INC.	U.S. EPA ID Number MAC300066038
7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD	U.S. EPA ID Number MAD059020834
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 183 EMELLE AL 35459	U.S. EPA ID Number ALD000622464

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit WT./Vol.	13. Waste Codes
X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9, PGIII 408412AL	001 DT	31683 24358	K	MA03
	2.				
	3.				
	4.				

Facility's Phone: (205) 652-9721

14. Special Handling Instructions and Additional Information
 1. APPROVAL# 408412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA 01862
 OUT OF SERVICE DATE: 06/19/2020
 Weight is estimated in KG.
 ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offereor's Printed/Typed Name: Pedro Soto
 Signature: [Signature]
 Month: | Day: | Year: |

16. International Shipments
 Import to U.S. Export from U.S.
 Port of entry/exit: _____
 Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name David Richardson	Signature [Signature]	Month Day Year 6 23 20
Transporter 2 Printed/Typed Name Derek Sparce	Signature [Signature]	Month Day Year 6 23 20

18. Discrepancy
 18a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection
 Corrected to rec'd wt. Per Dan Walsh 7/15/20 (DW)

18b. Alternate Facility (or Generator)
 Facility's Phone: _____
 U.S. EPA ID Number: _____

18c. Signature of Alternate Facility (or Generator)
 Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H308	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Tammy Thrash
 Signature: [Signature]
 Month Day Year: 7 | 14 | 20



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37675
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/14/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	78620 lb*
In	07/14/2020 10:24:32	MANUAL WT	awalke13		Tare	36400 lb*
Out	07/14/2020 10:24:32		awalke13		Net	42220 lb
			* Manual Weight		Tons	21.11

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	21.11	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	21.11	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MAD018426238

2. Page 1 of 3

3. Emergency Response Phone: (800) 24-9300

4. Manifest Tracking Number: 006524516 GBF

5. Generator's Name and Mailing Address: CITY OF LAWRENCE (ATTN: PEDRO SOTO), 207 MARSTON STREET, LAWRENCE, MA 01841. Generator's Phone: (978) 620-3501

6. Transporter 1 Company Name: GOULET TRUCKING INC. U.S. EPA ID Number: MAC300086038

7. Transporter 2 Company Name: PROVIDENCE & WORCESTER RAILROAD U.S. EPA ID Number: MAD050020834

8. Designated Facility Name and Site Address: CHEMICAL WASTE MANAGEMENT, INC., HIGHWAY 17 NORTH, MILE MARKER 183, EMELLE AL 35459. Facility's Phone: (205) 852-9721. U.S. EPA ID Number: ALD000622464

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WT./Vol.	13. Waste Codes
		No.	Type			
X	RQ UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9 PGIII 406412AL	001	DT	19.535 19.151	K	MAD2

14. Special Handling Instructions and Additional Information: 1. APPROVAL # 406412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA 01862. Weight is estimated in KG. ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offero Printed/Typed Name: PEDRO SOTO Signature: [Signature] Month: 6 Day: 23 Year: 20

16. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Richardson Signature: [Signature] Month: 6 Day: 23 Year: 20

Transporter 2 Printed/Typed Name: [Signature] Signature: [Signature] Month: 6 Day: 23 Year: 20

18. Discrepancy

18a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

Corrected to rec'd wt. Per Dan Walsh 7/15/20 (BW) Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H13B 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Tammy Thrash Signature: [Signature] Month: 7 Day: 14 Year: 20

CWM, INC. - EHELLE

***** Receipt # 556623 *****

Page - 1

Date/Time In 7/14/20 11:59

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE NGHT INC

EHELLE

AL

** WEIGHT SUMMARY **

Gross 78620.00

Tare 36,400.00

Net 42,220.00

Adj. 42,000.00

Adj. Net 19,151Kg

Truck Number 653473

Trailer/Contr #1 707066

#2

#3

Rept Doc Ln#	Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cat #	Cat Code	Total Quan.	W DCS Units	Sched PCB	Federal Cat	EPA Waste Status	ADEN #
--------------	-----	-----------------	---------------	-------------------	--------------------	-------	----------	-------------	-------------	-----------	-------------	------------------	--------

1	1	0065245166BF	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	32535.00	K	Kilogram	Y	PLPB KS	Undeterminable	053122-0031
---	---	--------------	----------	------------------	-------------	---	----	----------	---	----------	---	---------	----------------	-------------

Doc Seq # 1 EME W L FRENCH EXCAVATING CORP

SUBCC Value - NA

P.O. Num

COD Req'd

>51X OR <51X DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B20- | PHYS. DESCRIPTION

RAD. SCREEN POS NEG

IGN. SCREEN POS NEG

H2O SOL. S F PT/SOL

H2O RXN/TEMP. INITIAL NO RXN REACTS

H2O RXN/TEMP. 5MIN. NO RXN REACTS

ph (PAPER)

CN SCREEN + - (PRUSSIAN BLUE)

CN SCREEN + - (CYANESNO)

SULFIDE SCREEN + -

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XN20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ BNZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ _____ OK _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC P-HAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37677
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/14/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	79560 lb*
In	07/14/2020 10:26:16	MANUAL WT	awalke13		Tare	32340 lb*
Out	07/14/2020 10:26:16		awalke13		Net	47220 lb
			* Manual Weight		Tons	23.61

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	23.61	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	23.61	Tons				

Total Tax
 Total Ticket

Driver`s Signature

WEIGH SLIP

NOT VALID UNLESS IMPRINTED

Gross

07:40 am 06/23/20

Card ID: 8033

Tare

104440 lb Gross

34500 lb Tare

69940 lb Net

Net

Date

Truck No.

6-23-2020

18-11

Consignee

006524503

Weigher

FURX 322473

Weighed on the Scales
of

Providence & Worcester Railroad Co.

382 Southbridge St.

Worcester, Mass 01610

(508) 755-4000

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006524503 GBF			
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841								
Generator's Phone: (978)620-3501								
6. Transporter 1 Company Name GOULET TRUCKING INC.								
U.S. EPA ID Number MAC300066038								
7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD								
U.S. EPA ID Number MAD059020834								
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459								
U.S. EPA ID Number ALD000622464								
Facility's Phone: (205)852-9721								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1.	X RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9, PGIII		001 DT	2149 3199	K	MA02	
	2.	406412AL						
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. APPROVAL# 406412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator OUT OF SERVICE DATE: 06/19/2020 manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01862 Weight is estimated in KG. ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Pedro Soto								
Signature <i>[Signature]</i>								
Month Day Year 6 23 20								
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Chris Blais							
	Signature <i>[Signature]</i>							
Month Day Year 6 23 20								
Transporter 2 Printed/Typed Name Dan Walsh								
Signature <i>[Signature]</i>								
Month Day Year 6 23 20								
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	Corrected to revid wt. Per Dan Walsh 7/15/20 (BW)							
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
	Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132 2. _____ 3. _____ 4. _____								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Tammy Thrash								
Signature <i>[Signature]</i>								
Month Day Year 7 14 20								

CWH, INC. - EHELLE

***** Receipt # 556617 *****

Page - 1

Date/Time In 7/14/20 11:22

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE NGHT INC
EHELLE AL

** WEIGHT SUMMARY **

Gross 79560.00

Tare 32340.00

Net 47220.00

Adj. .00

Adj. Net 21419Kg

Truck Number 3050 Trailer/Contnr #1 707227 #2 #3

Rcpt Doc Lnf Ln#	Document Number	Profile Sales	Profile Invoicing Customer	Generator	Cat #	Cat Code	Total Quan.	W DCS V Units	Sched Federal EPA PCB Cat	Waste Status	ADEN #
------------------	-----------------	---------------	----------------------------	-----------	-------	----------	-------------	---------------	---------------------------	--------------	--------

1	1	006524503GBF	406412AL	CITY OF LAWRENCE LAWRENCE MA	1	DT	31719.00	K	Kilogram Y	PLFB KS	Undeterminable	053122-0031
---	---	--------------	----------	---------------------------------	---	----	----------	---	------------	---------	----------------	-------------

Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP P.O. Num

COD Req'd

>51X OR <51X DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED _____ FREE LIQUIDS DETECTED? _____ YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL _____ WIND DISPERSAL MATERIAL? _____ YES / NO

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE: B20- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGN. SCREEN POS NEG _____ | _____

H2O SOL. S F PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CN_SCREEN + - (PRUSSIAN BLUE) _____ | _____

CN_SCREEN + - (CYANESMO) _____ | _____

SULFIDE SCREEN + - _____ | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPH) _____ SULFIDE (9030) _____

XR20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ BNZ CONC. PPH _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC F-HAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37678
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/14/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	92320 lb*
In	07/14/2020 10:27:28	MANUAL WT	awalke13		Tare	31520 lb*
Out	07/14/2020 10:27:28		awalke13		Net	60800 lb
			* Manual Weight		Tons	30.40

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	30.40	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	30.40	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006451046 GBF		
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978)620-3501				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name CHEMICAL WASTE MANAGEMENT, INC.				U.S. EPA ID Number ALD000622484			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459 Facility's Phone: (205)852-9721				U.S. EPA ID Number ALD000622484			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RO, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 8, PGIII 408412AL	001	DT	27,59	K	MA02	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. APPROVAL# 408412AL OUT OF SERVICE DATE: 06/19/2020 OUT OF SERVICE DATE: 06/19/2020 Weight is estimated in KG. ERI PROVIDER: CHEMTREC (CONTRACT CCN24117) CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01862							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name				Signature		Month Day Year	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Ryan Buchanan				Signature Ryan Buchanan		Month Day Year 7 14 20	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				Manifest Reference Number:			
18b. Alternate Facility (or Generator) Add received wt.				U.S. EPA ID Number			
Facility's Phone:				U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)				Signature		Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. HP35		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Tammy Thrash				Signature Tammy Thrash		Month Day Year 7 14 20	

Overweight (5)

CWN, INC. - ENELLE

***** Receipt # 556624 *****

Page - 1

Date/Time In 7/14/20 12:05

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE MGMT INC

ENELLE

AL

** WEIGHT SUMMARY **

Gross 92320.00

Tare 31,500.00

Net 60,800.00

Adj. 27,519.00

Adj. Net 33,281.00

Truck Number 3057

Trailer/Contar #1 707230

#2

#3

Rcpt Doc	Document	Profile	Profile Generator	Cat	Cnt	Total	W	DCS	Sched	Federal EPA	ADEN #	
Ln#	Ln#	Number	Sales	Invoicing	Customer	#	Code	Quan.	Units	PCD	Cat	Waste Status

1	1	006451046GBF	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	27519	Kilogram	Y	PLFB	KS	Undeterminable	053122-0031
---	---	--------------	----------	------------------	-------------	---	----	-------	----------	---	------	----	----------------	-------------

Doc Seq # 1

ENE

W L FRENCH EXCAVATING CORP

P.O. Num

COD Req'd

>51% OR <51% DEBRIS (CIRCLE)

REFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE:

B20-

PHYS. DESCRIPTION

RAD. SCREEN

POS NEG

IGN. SCREEN

POS NEG

H2O SOL.

S F PT/SOL

H2O RXN/TEMP. INITIAL NO RXN REACTS

H2O RXN/TEMP. 5MIN. NO RXN REACTS

ph (PAPER)

CN_SCREEN + - (PRUSSIAN BLUE)

CN_SCREEN + - (CYANESNO)

SULFIDE SCREEN + -

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPH)

SULFIDE (9030)

KN20 BY KF

CYANIDE (9010C)

TAB WASTE Y N

PAINT FILTER TEST/ P F

SPEC. GRAVITY

BHZ CONC. PPH

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/

OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY:

DATE:



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37681
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/14/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	78780 lb*
In	07/14/2020 10:31:07	MANUAL WT	awalke13		Tare	36340 lb*
Out	07/14/2020 10:31:07		awalke13		Net	42440 lb
			* Manual Weight		Tons	21.22

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	21.22	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	21.22	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006524513 GBF			
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978)620-3501				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name GOULET TRUCKING INC.				U.S. EPA ID Number MAC300066038				
7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD				U.S. EPA ID Number MAD059020834				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 183 EMELLE AL 35459 Facility's Phone: (205)652-9721				U.S. EPA ID Number ALD000622464				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID) 9, PGIII 406412AL		001	DT	19251 31,156	K	MA02
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. APPROVAL # 406412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01862 OUT OF SERVICE DATE: 06/19/2020 Weight is estimated in KG. ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Pedro Soto				Signature <i>[Signature]</i>		Month Day Year 6 24 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Steven Paulin				Signature <i>[Signature]</i>		Month Day Year 06 24 20		
Transporter 2 Printed/Typed Name Daniel Stasse				Signature <i>[Signature]</i>		Month Day Year 6 24 20		
18. Discrepancy								
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Corrected to rec'd wt. Per Dan Walsh 7/15/20 (BW)								
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____								
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Nicholas Giles				Signature <i>[Signature]</i>		Month Day Year 7 11 20		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number MAD040428288	22. Page 3 of 3	23. Manifest Tracking Number 006524513 6BF			
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 01841							
25. Transporter <u>5</u> Company Name CHEMICAL WASTE MANAGEMENT, INC.		U.S. EPA ID Number ALD000822464					
26. Transporter _____ Company Name		U.S. EPA ID Number					
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
			No.	Type			
32. Special Handling Instructions and Additional Information <i>602X 4587 9397</i>							
TRANSPORTER	33. Transporter _____ Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name						
DESIGNATED FACILITY	34. Transporter _____ Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name						
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							

k2B

1

CWN, INC. - EMELLE

***** Receipt # 556638 *****

Page - 1

Date/Time In 7/14/20 16:06

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE MGMT INC

EMELLE

AL

** WEIGHT SUMMARY **

Gross 78700.00

Tare 36340.00

Net 42440.00

Adj. Net 19251.00

Adj. Net 19251 Kg

Truck Number 653473 Trailer/Contr #1 707066 #2 #3

Rcpt Ln#	Doc Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cnt Code	Total Quan.	V DCS V Units	Sched PCB Cat	Federal EPA Waste Status
1	1	00652451388F	406412AL		CITY OF LAWRENCE LAWRENCE MA	1	DT	31156.00	K	Kilogram Y PLF8 KS	Undeterminable
Doc Seq # 1 EME V L FRENCH EXCAVATING CORP											
>51% OR <51% DEBRIS (CIRCLE)											
PREFILLED VAULT Y OR N (CIRCLE)											
>51% OR <51% MAC 10% INSPECTION (CIRCLE)											
BULK MATERIAL ONLY:											
SAMPLED/INSPECTED											
SELECT MATERIAL/NON-SELECT MATERIAL											
FREE LIQUIDS DETECTED?											YES / NO
WIND DISPERSAL MATERIAL?											YES / NO

ADEN #

053122-0031

COD Req'd

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B20- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGN. SCREEN POS NEG _____ | _____

H2O SOL. S F PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CH SCREEN + - (PRUSSIAN BLUE) _____ | _____

CH SCREEN + - (CYANESMO) _____ | _____

SULFIDE SCREEN + - _____ | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPM) _____ SULFIDE (9030) _____

HR20 BY HF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ H2O CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ ON _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37689
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/14/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	85460 lb*
In	07/14/2020 10:50:18	MANUAL WT	awalke13		Tare	31480 lb*
Out	07/14/2020 10:50:18		awalke13		Net	53980 lb
			* Manual Weight		Tons	26.99

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	26.99	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	26.99	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006524512 GBF		
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN:PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name GOULET TRUCKING INC.				U.S. EPA ID Number MAC300088038			
7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD				U.S. EPA ID Number MAD059020834			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 183 EMELLE AL 35459				U.S. EPA ID Number ALD000822484			
Facility's Phone (205)852-9721							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9, PGIII	001	DT	24485 33261	K	MA02
14. Special Handling Instructions and Additional Information 1. APPROVAL# 408412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator OUT OF SERVICE DATE: 06/19/2020 Weight is estimated in KG. ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Pedro Soto				Signature <i>[Signature]</i>		Month Day Year 06 24 20	
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: Date leaving U.S.:			
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name MARIE PEARLSTEIN			Signature <i>[Signature]</i>		Month Day Year 06 24 2020	
	Transporter 2 Printed/Typed Name Daniel Thomas			Signature <i>[Signature]</i>		Month Day Year 6 24 20	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Corrected to rec'd wt. Per Dan Walsh 7/15/20 BW						
	Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H13a		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Nicholas Giles				Signature <i>[Signature]</i>		Month Day Year 7 14 20	

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number MAD010426238	22. Page 2 of 3	23. Manifest Tracking Number 006524512 BBF					
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 01844									
25. Transporter 3 Company Name CSX TRANSPORTATION INC.		U.S. EPA ID Number FLD008821340							
26. Transporter 4 Company Name ALABAMA AND GULF COAST RAILWAY		U.S. EPA ID Number ALR000046708							
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
			No.	Type					
32. Special Handling Instructions and Additional Information OAK 9597									
TRANSPORTER	33. Transporter Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____								
	34. Transporter Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____								
DESIGNATED FACILITY	35. Discrepancy								
	36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								

Please print or type.

CWMI

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

21. Generator ID Number

22. Page 3 of 3

23. Manifest Tracking Number

MAD0010428238

006524512 GBF

24. Generator's Name

CITY OF LAWRENCE
207 MARSTON STREET
LAWRENCE MA 01844

25. Transporter 5 Company Name

CHEMICAL WASTE MANAGEMENT, INC.

U.S. EPA ID Number

ALD000822484

26. Transporter _____ Company Name

U.S. EPA ID Number

27a. HM

27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

601X 9597

32. Special Handling Instructions and Additional Information

33. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Ryan Buchanan

Signature

Ryan Buchanan

Month Day Year

7 | 14 | 20

34. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

3

k26

CWH, INC. - ENELLE

**** Receipt # 556640 ****

Page - 1

Date/Time In 7/14/20 16:16

Load Type Dumps

Federal EPA ID ALD000622454

Transporter CHEMICAL WASTE NGHT INC
ENELLE AL

WEIGHT SUMMARY
Gross 85460.00
Tare 31480 .00
Net 53980 .00
Adj. Net 24485kg.00

Truck Number 3057 Trailer/Contar #1 77220 #2 #3

Rcpt Ln#	Doc Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cnt Code	Total Quan.	W DCS Units	Sched PCB	Federal Cat	EPA Waste Status	ADEX #
----------	---------	-----------------	---------------	-------------------	--------------------	-------	----------	-------------	-------------	-----------	-------------	------------------	--------

1	1	00652451208F	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	33261.00	K Kilogram	Y	PLFB	KS Undeterminable	053122-0031
								SUBCC Value - NA					
Doc Seq #		1	EKE	V L FRENCH EXCAVATING CORP				P.O. Num					COD Req'd

>51X OR <51X DEBRIS (CIRCLE)

REFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X NAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED _____ FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL _____ WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE: H2O- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGN. SCREEN POS NEG _____ | _____

H2O SOL. S P PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. SHIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CN SCREEN + - (PRUSSIAN BLUE) _____ | _____

CN SCREEN + - (CYANESHO) _____ | _____

SULFIDE SCREEN + - _____ | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPH) _____ SULFIDE (9030) _____

KN20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ DMZ CONC. PPH _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC NAC (NAC INSPECT) F INC SP-VS PCB-NAC P-NAC _____

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8 _____

INDICATOR PARAMETER WILL BE CIRCLED

B-NAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37691
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/14/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	81680 lb*
In	07/14/2020 10:52:21	MANUAL WT	awalke13		Tare	32320 lb*
Out	07/14/2020 10:52:21		awalke13		Net	49360 lb
			* Manual Weight		Tons	24.68

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	24.68	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	24.68	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD018428238	2. Page 1 of 3	3. Emergency Response Phone (800)474-9300	4. Manifest Tracking Number 006524515 GBF		
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841				Generator's Site Address (if different than mailing address)			
Generator's Phone: (978)820-3501		6. Transporter 1 Company Name GOULET TRUCKING INC.		U.S. EPA ID Number MAC300066038			
		7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD		U.S. EPA ID Number MAD059020834			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464			
Facility's Phone: (205)652-9721							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit	13. Waste Codes	
		No.	Type		WT./Vol.		
1.	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9, PGIII	001	DT	22390 33188	K	MA02	
2.							
3.							
4.							
601X 9597							
14. Special Handling Instructions and Additional Information 1. APPROVAL # 406412AL OUT OF SERVICE DATE: 08/19/2020 CWMI Record Dept. please mail the facility to generator OUT OF SERVICE DATE: 08/19/2020 Weight is estimated in KG. ERI PROVIDER: CHEMTREC (CONTRACT CCN24117) manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01862							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Pedro Soto				Signature <i>[Signature]</i>		Month Day Year 10/24/20	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name MATHEW PEARLSTEIN				Signature <i>[Signature]</i>		Month Day Year 10/24/2020	
Transporter 2 Printed/Typed Name Derek Stuenkel				Signature <i>[Signature]</i>		Month Day Year 10/24/20	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Corrected to recvd wt. Per Dan Walsh 7/15/20 BW							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Nicholas Giles				Signature <i>[Signature]</i>		Month Day Year 7/14/20	

k26

CWH, INC. - EHELLE

***** Receipt # 556639 *****

Page - 1

Date/Time In 7/14/20 16:13

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE NGHT INC
EHELLE

AL

** WEIGHT SUMMARY **

Gross 81680.00

Tare 32320 .00

Net 49360 .00

Adj. Net 22390 kg .00

Adj. Net 22390 Kg

Truck Number 3858 Trailer/Contar #1 707227 #2 #3

Rcpt Ln#	Doc Ln#	Profile Number	Profile Sales	Generator Invoicing	Customer	Cnt #	Cnt Code	Total Quan.	W DCS V Units	Sched PCB Cat	Federal EPA Waste Status
----------	---------	----------------	---------------	---------------------	----------	-------	----------	-------------	---------------	---------------	--------------------------

1	1	00652451560F	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	33488.00	K	Kilogram	Y PLFB KS Undeterminable
---	---	--------------	----------	------------------	-------------	---	----	----------	---	----------	--------------------------

ADEN #

053122-0031

COD Req'd

Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP

>51X OR <51X DEBRIS (CIRCLE)

REFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X HAC 10X INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B20- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGN. SCREEN POS NEG _____ | _____

H2O SOL. S F PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CN SCREEN + - (PRUSSIAN BLUE) _____ | _____

CN SCREEN + - (CYANTESNO) _____ | _____

SULFIDE SCREEN + - _____ | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XR20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ DMZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT HIC HAC (HAC INSPECT) F INC SP-VS PCB-MAC P-MAC _____

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8 _____

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____

DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37693
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/14/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	90440 lb*
In	07/14/2020 10:53:38	MANUAL WT	awalke13		Tare	32320 lb*
Out	07/14/2020 10:53:38		awalke13		Net	58120 lb
			* Manual Weight		Tons	29.06

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	29.06	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	29.06	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006451049 GBF			
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN:PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978)820-3501				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name CHEMICAL WASTE MANAGEMENT, INC.				U.S. EPA ID Number ALD000622464				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 183 EMELLE AL 35459 Facility's Phone: (205)852-9721				U.S. EPA ID Number ALD000622464				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 8, PGIII 408412AL		001 DT		26363	K	MA02
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. APPROVAL # 408412AL OUT OF SERVICE DATE: 08/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01862 Weight is estimated in KG. ERI PROVIDER :CHEMTREC (CONTRACT CON24117)								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name				Signature		Month Day Year		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name		Signature		Month Day Year			
	Eric Walker		Eric Walker		7 14 20			
Transporter 2 Printed/Typed Name		Signature		Month Day Year				
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				Manifest Reference Number:			
	Add Received Wght							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:				Month Day Year			
18c. Signature of Alternate Facility (or Generator)				Signature		Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in 4th 18a								
Printed/Typed Name				Signature		Month Day Year		
Nicholas Gilles				Nicholas Gilles		7 14 20		

k26

(4)

CWN, INC. - ENELLE

***** Receipt # 556641 *****

Page - 1

Date/Time In 7/14/20 16:33

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE MGMT INC
EMELLE AL

** WEIGHT SUMMARY **

Gross 90440.00

Tare 32380 .00

Net 58120 .00

Adj. 26363kg .00

Adj. Net

Truck Number 1887 Trailer/Contnr #1 707229 #2 #3

Doc Ln#	Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cat Code	Total Quan.	V DCS Units	Sched PCB Cat	Federal EPA Waste Status	ADEN #	
1	1	006451049GBF	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	33261.00	K	Kilogram	Y PLFB KS	Undeterminable	053122-0031
Doc Seq # 1 ENE V L FRENCH EXCAVATING CORP						P.O. Num	SUBCC Value - NA				COD Req'd		

>51% OR <51% DEBRIS (CIRCLE)
 PREFILLED VAULT Y OR N (CIRCLE)
 >51% OR <51% HAC 10% INSPECTION (CIRCLE)
 BULK MATERIAL ONLY:
 SAMPLED/INSPECTED _____ FREE LIQUIDS DETECTED? YES / NO
 SELECT MATERIAL/NON-SELECT MATERIAL _____ WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE:	R20-	PHYS. DESCRIPTION
RAD. SCREEN	POS NEG	
IGN. SCREEN	POS NEG	
H2O SOL.	S F PT/SOL	
H2O RXN/TEMP.	INITIAL NO RXN	REACTS
H2O RXN/TEMP.	5MIN. NO RXN	REACTS
ph (PAPER)		
CN SCREEN	+ - (PRUSSIAN BLUE)	
CN SCREEN	+ - (CYANESNO)	
SULFIDE SCREEN	+ -	

ADDITIONAL ANALYTICAL REQ'D? Y N
 DESCRIBE:
 PCB CONC. (PPM) _____ SULFIDE (9030) _____
 XH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N
 PAINT FILTER TEST/ P F SPEC. GRAVITY _____ RMZ CONC. PPM _____
 COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N
 DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____
 P-ST-5/PT ST-8 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC P-HAC
 P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8
 INDICATOR PARAMETER WILL BE CIRCLED
 B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST
 BE RETURNED TO LAB AND PLACED ON HOLD.
 RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37694
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/15/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	62260 lb*
In	07/15/2020 10:54:41	MANUAL WT	awalke13		Tare	32280 lb*
Out	07/15/2020 10:54:41		awalke13		Net	29980 lb
			* Manual Weight		Tons	14.99

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	14.99	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	14.99	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MAD019428238	2. Page 1 of 3	3. Emergency Response Phone (800)424-8300	4. Manifest Tracking Number 006451048 GBF
---	--	----------------	--	--

5. Generator's Name and Mailing Address
CITY OF LAWRENCE (ATTN: PEDRO SOTO)
207 MARSTON STREET
LAWRENCE MA 01841
Generator's Phone: (878)820-3504

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
CHEMICAL WASTE MANAGEMENT, INC.
U.S. EPA ID Number
ALD000822484

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
HIGHWAY 17 NORTH, MILE MARKER 183
EMELLE AL 35459
U.S. EPA ID Number
ALD000822484

Facility's Phone: (205)852-9721

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 8 PGIII 406412AL	001	DT	13,599	K	MAN2	
2							
3							
4							

Back 9597

14. Special Handling Instructions and Additional Information
1. APPROVAL # 406412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01802
OUT OF SERVICE DATE: 06/18/2020
Weight is estimated in KG.
ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name MAIKUS Sturdivant Signature _____ Month _____ Day _____ Year _____

Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Add received wt.

18b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number _____

Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H133 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Tammy Thrash Signature _____ Month _____ Day _____ Year _____

3

CWH, INC. - EHELLE

***** Receipt # 556656 *****

Page - 1

Date/Time In 7/15/20 8:52

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE NGHT INC
EHELLE AL

** WEIGHT SUMMARY **

Gross 62268.00

Tare 30,980.00

Net 29,980.00

Adj. 29,980.00

Adj. Net 29,980.00

Truck Number 3058 Trailer/Contr #1 707227 #2 #3

Doc	Doc	Profile	Profile	Generator	Cnt	Cnt	Total	W	DCS	Sched	Federal	EPA	ADEN #
Ln#	Ln#	Number	Sales	Invoicing	Customer	#	Code	Quan.	Units	PCB	Cat	Waste	Status

1	1	006451040GDF	406412AL	CITY OF LAWRENCE	1	DT	1.00	K	Kilogram	Y	PLFB	KS	Undeterminable	053122-0031
---	---	--------------	----------	------------------	---	----	------	---	----------	---	------	----	----------------	-------------

Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP P.O. Num
LAWRENCE MA SUBCC Value - NA
COD Req'd

>51X OR <51X DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED _____ FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL _____ WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE: E20- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGN. SCREEN POS NEG _____ | _____

H2O SOL. S F PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CN SCREEN + - (PRUSSIAN BLUE) _____ | _____

CN SCREEN + - (CYANESNO) _____ | _____

SULFIDE SCREEN + - _____ | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ BNZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC P-HAC _____

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8 _____

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37696
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/15/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	86920 lb*
In	07/15/2020 10:56:04	MANUAL WT	awalke13		Tare	36320 lb*
Out	07/15/2020 10:56:04		awalke13		Net	50600 lb
			* Manual Weight		Tons	25.30

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	25.30	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	25.30	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019428238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006451047 GBF			
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978)820-3501				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name CHEMICAL WASTE MANAGEMENT, INC.				U.S. EPA ID Number ALD000622464				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35458 Facility's Phone: (205)852-9721				U.S. EPA ID Number ALD000622464				
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
		1. RQ UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 2, PGIII 408412AL		No. 001	Type DT	22,952	K	MA02
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. APPROVAL # 408412AL OUT OF SERVICE DATE: 08/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA 01862 Weight is estimated in KG. ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name				Signature		Month Day Year		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Galen Mast				Signature Galen Mast		Month Day Year 17 15 20		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				Manifest Reference Number:				
Add rec'd wt.								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)				Signature		Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H302		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Tammy Thrash				Signature Tammy Thrash		Month Day Year 17 15 20		

CWH, INC. - ENELLE

***** Receipt # 356664 *****

Page - 1

Date/Time In 7/15/20 10:02

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE HGT INC
ENELLE AL

** WEIGHT SUMMARY **

Gross -856920.00

Tare 86,920.00

Net 36,300.00

Adj. Net 39,600.00

20,952Kg

Truck Number 653473 Trailer/Contnr #1 707066 #2 #3

Rcpt Doc Ln#	Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cat Code	Total Quan.	W DCS Units	Sched PCB Cat	Federal Waste	EPA Status	ADEM #
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1	1	0064510476BF	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	1.00	K	Kilogram	Y	PLFB KS	Undeterminable	053122-0031
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Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP P.O. Num

COD Req'd

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: SAMPLER/APPROVAL

SPOT SAMPLE: B20- | PHYS. DESCRIPTION

RAD. SCREEN POS NEG |

IGN. SCREEN POS NEG |

H2O SOL. S F PT/SOL |

H2O RXN/TEMP. INITIAL NO RXN REACTS |

H2O RXN/TEMP. 5MIN. NO RXN REACTS |

ph (PAPER) |

CN SCREEN + - (PRUSSIAN BLUE) |

CN SCREEN + - (CYANTESMO) |

SULFIDE SCREEN + - |

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) SULFIDE (9030)

HR20 BY KF CYANIDE (9010C) TAB WASTE Y N

PAINT FILTER TEST/ P F SPEC. GRAVITY BNZ CONC. PPM

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37697
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/15/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	82160 lb*
In	07/15/2020 10:57:14	MANUAL WT	awalke13		Tare	32260 lb*
Out	07/15/2020 10:57:14		awalke13		Net	49900 lb
			* Manual Weight		Tons	24.95

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	24.95	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	24.95	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019428238	2. Page 1 of	3. Emergency Response Phone (800) 424-8300	4. Manifest Tracking Number 006524506 GBF		
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978) 620-3501				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name GOULET TRUCKING INC.				U.S. EPA ID Number MAC300066038			
7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD				U.S. EPA ID Number MAD059020834			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459 Facility's Phone: 205 852-9721				U.S. EPA ID Number ALD000622464			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	RQ UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9, PGIII 408412AL	001	DT	24018	K	MAD2
14. Special Handling Instructions and Additional Information 1. APPROVAL # 408412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01802 OUT OF SERVICE DATE: 06/19/2020 Weight is estimated in KG. ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Pedro Soto				Signature <i>[Signature]</i>		Month Day Year 06 24 20	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Steven Poolin				Signature <i>[Signature]</i>		Month Day Year 06 24 20	
Transporter 2 Printed/Typed Name Dennis Howard				Signature <i>[Signature]</i>		Month Day Year 6 24 20	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____							
18c. Signature of Alternate Facility (or Generator) Facility's Phone: _____ Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H130		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name Tammy Thrash				Signature <i>[Signature]</i>		Month Day Year 17 15 20	

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number MAD010428238	22. Page 3 of 3	23. Manifest Tracking Number 006524506 BBF			
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 01844							
25. Transporter <u>S</u> Company Name CHEMICAL WASTE MANAGEMENT, INC.		U.S. EPA ID Number ALD000822464					
26. Transporter _____ Company Name		U.S. EPA ID Number					
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes	
		No.	Type				
32. Special Handling Instructions and Additional Information CE6K P03533							
33. Transporter _____ Acknowledgment of Receipt of Materials							
Printed/Typed Name Ryan Buchanan		Signature Ryan Buchanan		Month Day Year 7 15 20			
34. Transporter _____ Acknowledgment of Receipt of Materials							
Printed/Typed Name		Signature		Month Day Year			
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

2

CWN, INC. - ENELLE

***** Receipt # 556661 *****

Page - 1

Date/Time In 7/15/20 9:25

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE MGMT INC
ENELLE AL

WEIGHT SUMMARY

Gross 82160.00

Tare 32,8100.00

Net 49,900.00

Adj. Net 20,634.00

Truck Number 3057 Trailer/Contar #1 707230 #2 #3

Rcpt Doc Ln#	Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cat Code	Total Quan.	W DCS Units	Sched Federal EPA Cat	Waste Status	ADEN #
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1	1	006524506GBF	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	24018.00	K	Kilogram	Y PLFB KS	Undeterminable	053122-0031
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Doc Seq #	1	ENE	W L FRENCH EXCAVATING CORP	P.O. Num								COO Req'd
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>51X OR <51X DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: SAMPLER/APPROVAL

SPOT SAMPLE: H2O- | PHYS. DESCRIPTION

RAD. SCREEN POS NEG |

IGN. SCREEN POS NEG |

H2O SOL. S F PT/SOL |

H2O RXN/TEMP. INITIAL NO RXN REACTS |

H2O RXN/TEMP. 5MIN. NO RXN REACTS |

ph (PAPER) |

CN SCREEN + - (PRUSSIAN BLUE) |

CN SCREEN + - (CYANTESHO) |

SULFIDE SCREEN + - |

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) SULFIDE (9030)

XH2O BY KF CYANIDE (9010C) TAB WASTE Y N

PAINTY FILTER TEST/ P F SPEC. GRAVITY RMZ CONC. PPM

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37698
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/15/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	81600 lb*
In	07/15/2020 10:58:29	MANUAL WT	awalke13		Tare	35880 lb*
Out	07/15/2020 10:58:29		awalke13		Net	45720 lb
			* Manual Weight		Tons	22.86

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	22.86	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	22.86	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD018426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006524514 GBF			
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978)820-3501				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name GOULET TRUCKING INC.				U.S. EPA ID Number MAC300066038				
7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD				U.S. EPA ID Number MAD059020834				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 183 EMELLE AL 35459 Facility's Phone: (205)852-8721				U.S. EPA ID Number ALD000622464				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9, PGIII 406412AL		001 DT		30738 31256	K	MA02
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. APPROVAL# 406412AL OUT OF SERVICE DATE: 06/19/2020 CWMI Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01862 OUT OF SERVICE DATE: 06/19/2020 Weight is estimated in KG. ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offero's Printed/Typed Name Pedro Soto				Signature <i>[Signature]</i>		Month Day Year 6 24 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Steven Paulin				Signature <i>[Signature]</i>		Month Day Year 06 24 20		
Transporter 2 Printed/Typed Name Drew Steward				Signature <i>[Signature]</i>		Month Day Year 6 24 20		
18. Discrepancy								
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection corrected to rec'd wt. per Dan Walsh 7/17/20 (DW)								
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____								
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H135		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 17a								
Printed/Typed Name Lalisha Hill				Signature <i>[Signature]</i>		Month Day Year 17 11 20		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number MAD010428238	22. Page 3 of 3	23. Manifest Tracking Number 006524514 68F			
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 01844							
25. Transporter <u>5</u> Company Name CHEMICAL WASTE MANAGEMENT, INC.		U.S. EPA ID Number ALD000822464					
26. Transporter _____ Company Name		U.S. EPA ID Number					
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
			No.	Type			
32. Special Handling Instructions and Additional Information OTEX 803533							
TRANSPORTER	33. Transporter Acknowledgment of Receipt of Materials						
	Printed/Typed Name Leroy Fitch	Signature <i>Leroy Fitch</i>	Month 17	Day 15	Year 20		
DESIGNATED FACILITY	34. Transporter Acknowledgment of Receipt of Materials						
	Printed/Typed Name	Signature	Month	Day	Year		
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							

1

k26

CWN, INC. - ENELLE

***** Receipt # 55665 *****

Page - 1

Date/Time In 7/15/20 10:07

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE MGMT INC

ENELLE

AL

** WEIGHT SUMMARY **

Gross 81600.00

Tare 35,880.00

Net 45,720.00

Adj. Net 7380.00

Adj. Net 7380.00

Truck Number 653475

Trailer/Contr #1 707045

#2

#3

Rcpt Lnf	Doc Lnf	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cat #	Cat Code	Total Qun.	V DCS Y Units	Sched PCB Cat	Federal Waste Status	EPA ADEN #
1	1	0065245146BF	4064124L	CITY OF LAWRENCE	LAWRENCE MA	1	DT	31256.00	K Kilogram	Y PLFB KS	Undeterminable	653122-0031

Doc Seq # 1 ENE V L FRENCH EXCAVATING CORP

SUBCC Value - NA

P.O. Num

COD Req'd

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B20- | PHYS. DESCRIPTION

RAD. SCREEN POS NEG |

IGN. SCREEN POS NEG |

H2O SOL. S F PT/SOL |

H2O RXN/TEMP. INITIAL NO RXN REACTS |

H2O RXN/TEMP. 3MIN. NO RXN REACTS |

ph (PAPER) |

CN SCREEN + - (PRUSSIAN BLUE) |

CN SCREEN + - (CYANESNO) |

SULFIDE SCREEN + -

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) _____ SULFIDE (9030) _____

KR20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ BHZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37699
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/15/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	83340 lb*
In	07/15/2020 10:59:40	MANUAL WT	awalke13		Tare	32260 lb*
Out	07/15/2020 10:59:40		awalke13		Net	51080 lb
			* Manual Weight		Tons	25.54

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	25.54	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	25.54	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD018426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006524507 GBF	
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978)820-3501				Generator's Site Address (if different than mailing address)		
6. Transporter 1 Company Name GOULET TRUCKING INC.				U.S. EPA ID Number MAC300066038		
7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD				U.S. EPA ID Number MAD059020834		
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 183 EMELLE AL 35459 Facility's Phone: (205)852-9721				U.S. EPA ID Number ALD000622464		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity
				No.	Type	12. Unit Wt./Vol.
	X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS (POLYCHLORINATED BIPHENYL SOLID), PGIII 406412AL		001	DT	2370 32154 K
		2.				
		3.				
	4.					
14. Special Handling Instructions and Additional Information 1. APPROVAL # 406412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA 01862 OUT OF SERVICE DATE: 06/19/2020 Weight is estimated in KG. ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offendor's Printed/Typed Name Pedro Soto				Signature <i>[Signature]</i>		Month Day Year 06 24 20
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name MATHEW PEARLSTEIN				Signature <i>[Signature]</i>	
Transporter 2 Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year 6 24 20
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	Corrected to rec'd wt. Per Dan Walsh 7/17/20 (BW) Manifest Reference Number: _____					
18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Tammy Thrash				Signature <i>[Signature]</i>		Month Day Year 7 15 20

Over weight (1)

CWH, INC. - ENELLE

***** Receipt # 556657 *****

Page - 1

Date/Time In 7/15/20 9:00

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE MGMT INC
ENELLE AL

** WEIGHT SUMMARY **

Gross 83340.00

Tare 32260.00

Net 51080.00

Adj. .00

Adj. Net 23170 kg

Truck Number 1887 Trailer/Contar #1 707229 #2 #3

Rcpt Doc	Document Profile	Profile Generator	Cnt Cnt	Total	W DCS	Sched Federal EPA
Lnf Lnf	Number Sales	Invoicing Customer	# Code	Quan.	Units	PCB Cat Waste Status

1	1	006524507GBF	406412AL	CITY OF LAWRENCE	1	DT	1.00	K	Kilogram	Y	PLFB	KS	Undeterminable
---	---	--------------	----------	------------------	---	----	------	---	----------	---	------	----	----------------

ADEN #

053122-0031

Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP

SUBCC Value - NA

P.O. Num

COO Req'd

>51% OR <51% DEBRIS (CIRCLE)

REFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: R20- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____

IGN. SCREEN POS NEG _____

R20 SOL. S F PT/SOL _____

R20 RXN/TEMP. INITIAL NO RXN REACTS _____

R20 RXN/TEMP. SHIN. NO RXN REACTS _____

ph (PAPER) _____

CH SCREEN + - (PRUSSIAN BLUE) _____

CH SCREEN + - (CYANESND) _____

SULFIDE SCREEN + - _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPM) _____ SULFIDE (9030) _____

HN20 BY HF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ BNZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-P7A B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC P-HAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37700
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/17/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	78380 lb*
In	07/17/2020 11:01:01	MANUAL WT	awalke13		Tare	36120 lb*
Out	07/17/2020 11:01:01		awalke13		Net	42260 lb
			* Manual Weight		Tons	21.13

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	21.13	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	21.13	Tons				

Total Tax
 Total Ticket

Driver`s Signature

WEIGH SLIP

216329

NOT VALID UNLESS IMPRINTED

Gross

10:53 am 06/23/20
Card ID: 8033

Tare

102120 lb Gross
34200 lb Tare
67920 lb Net

Net

Date

Truck No.

6-23-2020

18-11

Consignee

006524502

Weigher

CE6x803764

Weighed on the Scales
of

Providence & Worcester Railroad Co.

382 Southbridge St.

Worcester, Mass 01610

(508) 755-4000

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD018426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006524502 GBF		
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841		Generator's Site Address (if different than mailing address) 216329					
6. Transporter 1 Company Name GOULET TRUCKING INC.		U.S. EPA ID Number MAC300066038					
7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD		U.S. EPA ID Number MAD059020834					
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 183 EMELLE AL 35459		U.S. EPA ID Number ALD000822464					
Facility's Phone: (205)852-9721							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9 PGII	001	DT	19169 30803	K	MA02
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1. APPROVAL# 408412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA 01862 OUT OF SERVICE DATE: 06/19/2020 Weight is estimated in KG. ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Pedro Soto		Signature <i>[Signature]</i>		Month Day Year 6 23 20			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Chris Blais		Signature <i>[Signature]</i>		Month Day Year 6 23 20			
Transporter 2 Printed/Typed Name Dan Walsh		Signature <i>[Signature]</i>		Month Day Year 6 23 20			
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Corrected to rec'd wt. Per Dan Walsh 7/17/20 BW							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Tammy Thrash		Signature <i>[Signature]</i>		Month Day Year 7 17 20			

Please print or type.

CWMI

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

21. Generator ID Number

22. Page 2
of 3

23. Manifest Tracking Number

MAD010428238

006524502 6BF

24. Generator's Name

CITY OF LAWRENCE
207 MARSTON STREET
LAWRENCE MA 01844

25. Transporter 3

Company Name

CSX TRACNSPORTATION INC.

U.S. EPA ID Number

FLD0008921340

26. Transporter 4

Company Name

ALABAMA AND GULF COAST RAILWAY

U.S. EPA ID Number

ALR000048708

27a. HM 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

No.

Type

GENERATOR

CELL 803764

32. Special Handling Instructions and Additional Information

33. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

34. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

TRANSPORTER
DESIGNATED FACILITY

CWN, INC. - EHELLE

***** Receipt # 556764 *****

Page - 1

Date/Time In 7/17/20 10:13

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE MGMT INC
EHELLE AL

** WEIGHT SUMMARY **

Gross 78380.00

Tare 36120.00

Net 42260.00

Adj. .00

Adj. Net .00

19169 Kg

Truck Number 653473 Trailer/Contr #1 707066 #2 #3

Doc Ln#	Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cat #	Cat Code	Total Quan.	DCS V Units	Sched PCB	Federal Cat	EPA Waste Status	ADEN #
---------	-----	-----------------	---------------	-------------------	--------------------	-------	----------	-------------	-------------	-----------	-------------	------------------	--------

1	1	0065245026BF	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	30003.00	K	Kilogram	Y	PLFB KS	Undeterminable	053122-0031
		Doc Seq # 1	ENE	M L FRENCH EXCAVATING CORP										COD Req'd

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED	FREE LIQUIDS DETECTED?	YES / NO
SELECT MATERIAL/NON-SELECT MATERIAL	WIND DISPERSAL MATERIAL?	YES / NO

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE: B20- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____

IGN. SCREEN POS NEG _____

H2O SOL. S F PT/SOL _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____

H2O RXN/TEMP. SWIN. NO RXN REACTS _____

ph (PAPER) _____

CH SCREEN + - (PRUSSIAN BLUE) _____

CH SCREEN + - (CYANESNO) _____

SULFIDE SCREEN + - _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE:

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F SPEC. GRAVITY _____ BWZ CONC. PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ ON _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC P-HAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37701
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/17/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	76880 lb*
In	07/17/2020 11:02:20	MANUAL WT	awalke13		Tare	32020 lb*
Out	07/17/2020 11:02:20		awalke13		Net	44860 lb
			* Manual Weight		Tons	22.43

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	22.43	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	22.43	Tons				

Total Tax
 Total Ticket

Driver`s Signature

WEIGH SLIP

NOT VALID UNLESS IMPRINTED

Gross

02:14 PM 06/23/20

Card ID: 8033

Tare

102900 lb Gross

34000 lb Tare

68900 lb Net

Net

Date

6-23-20

Truck No.

18-11

Consignee

006524508

Weigher

CP6X 803764

Weighed on the Scales
of

Providence & Worcester Railroad Co.

382 Southbridge St.

Worcester, Mass 01610

(508) 755-4000

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MAD018428238
 2. Page 1 of 3
 3. Emergency Response Phone: (900) 424-9300
 4. Manifest Tracking Number: 006524508 GBF

5. Generator's Name and Mailing Address: CITY OF LAWRENCE (ATTN: PEDRO SOTO)
 207 MARSTON STREET
 LAWRENCE MA 01841
 Generator's Phone: (978) 620-3501

6. Transporter 1 Company Name: GOULET TRUCKING INC. U.S. EPA ID Number: MAC300066038
 7. Transporter 2 Company Name: PROVIDENCE & WORCESTER RAIL ROAD U.S. EPA ID Number: MAD059020834

8. Designated Facility Name and Site Address: CHEMICAL WASTE MANAGEMENT, INC.
 HIGHWAY 17 NORTH, MILE MARKER 183
 EMELLE AL 35459
 Facility's Phone: (205) 652-9721 U.S. EPA ID Number: ALD000622464

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9, PGIII 406412AL	001	DT	20348 31249	K	MA02	
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information:
 1. APPROVAL # 406412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01882
 OUT OF SERVICE DATE: 06/19/2020
 Weight is estimated in KG.
 ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offers Printed/Typed Name: Pedro Soto
 Signature: [Signature]
 Month Day Year: 6 23 20

16. International Shipments: Import to U.S. Export from U.S.
 Port of entry/exit: _____
 Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Blais
 Signature: [Signature]
 Month Day Year: 6 29 20

Transporter 2 Printed/Typed Name: Dan Walsh
 Signature: [Signature]
 Month Day Year: 6 23 20

18. Discrepancy

18a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Corrected to rec'd wt. Per Dan Walsh 7/20/20 EW

18b. Alternate Facility (or Generator): _____ Manifest Reference Number: _____ U.S. EPA ID Number: _____

18c. Signature of Alternate Facility (or Generator): _____ Month Day Year: _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Tammy Thrash
 Signature: [Signature]
 Month Day Year: 7 17 20

2

CWN, INC. - EHELLE

***** Receipt # 556765 *****

Page - 1

Date/Time In 7/17/20 10:26

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE NGHT INC
EHELLE AL

** WEIGHT SUMMARY **

Gross 76888.00

Tare 32020.00

Net 44868.00

Adj. .00

Adj. Net .00

20348 Kg

Truck Number 3038 Trailer/Contnr #1 707227 #2 #3

Rcpt Doc Ln#	Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cat #	Cnt Code	Total Quan.	W DCS V Units	Sched Federal EPA PCB Cat	Waste Status	ADEN #
--------------	-----	-----------------	---------------	-------------------	--------------------	-------	----------	-------------	---------------	---------------------------	--------------	--------

1	1	0065245086DF	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	31247.00	K	Kilogram Y PLFB KS	Undeterminable	053122-0031
		Doc Seq # 1	ENE	W L FRENCH EXCAVATING CORP								COD Req'd

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED	FREE LIQUIDS DETECTED?	YES / NO
SELECT MATERIAL/NON-SELECT MATERIAL	WIND DISPERSAL MATERIAL?	YES / NO

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE: B20- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG | _____

IGN. SCREEN POS NEG | _____

H2O SOL. S F PT/SOL | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS | _____

ph (PAPER) | _____

CH SCREEN + - (PRUSSIAN BLUE) | _____

CH SCREEN + - (CYANESNO) | _____

SULFIDE SCREEN + - | _____

ADDITIONAL ANALYTICAL REQ'D? Y N | _____

DESCRIBE: _____

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XN20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F SPEC. GRAVITY _____ BNZ CONC. PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC P-HAC _____

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8 _____

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37702
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/17/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	73020 lb*
In	07/17/2020 11:03:33	MANUAL WT	awalke13		Tare	31980 lb*
Out	07/17/2020 11:03:33		awalke13		Net	41040 lb
			* Manual Weight		Tons	20.52

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	20.52	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	20.52	Tons				

Total Tax
 Total Ticket

Driver`s Signature

WEIGH SLIP

NOT VALID UNLESS IMPRINTED

Gross

01:59 PM 06/23/20

Card ID: 8033

Tare

108520 lb Gross

37200 lb Tare

71320 lb Net

Net

Date

6/23/20

Truck No.

20-13

Consignee

006524509

Weigher

CE6X 803764

Weighed on the Scales
of

Providence & Worcester Railroad Co.

382 Southbridge St.

Worcester, Mass 01610

(508) 755-4000

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-8300	4. Manifest Tracking Number 006524509 GBF				
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978)820-3501				Generator's Site Address (if different than mailing address)					
6. Transporter 1 Company Name GOULET TRUCKING INC.				U.S. EPA ID Number MAC300066038					
7. Transporter 2 Company Name PROVIDENCE & WORCESTER RAILROAD				U.S. EPA ID Number MAD059020834					
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459 Facility's Phone: (205)652-9721				U.S. EPA ID Number ALD000622464					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9, PGIII 406412AL		001	DT	355 22,585 18616 BW	K	MA02	
		2.							
		3.							
		4.							
14. Special Handling Instructions and Additional Information 1. APPROVAL# 406412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01862 OUT OF SERVICE DATE: 06/19/2020 Weight is estimated in KG. ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Pedro Soto				Signature <i>[Signature]</i>		Month Day Year 6 23 20			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name David Richardson				Signature <i>[Signature]</i>		Month Day Year 6 23 20			
Transporter 2 Printed/Typed Name Dan Walsh				Signature <i>[Signature]</i>		Month Day Year 6 23 20			
18. Discrepancy									
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Corrected to rec'd wt. Per Dan Walsh 7/20/20 (BW)									
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____									
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Tammy Thrash				Signature <i>[Signature]</i>		Month Day Year 7 17 20			

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

21. Generator ID Number

22. Page 2
of 3

23. Manifest Tracking Number

MAD010428238

006524509 66F

24. Generator's Name

CITY OF LAWRENCE
207 MARSTON STREET
LAWRENCE

MA 01844

25. Transporter 3

Company Name

CSX TRACNSPORTATION INC.

U.S. EPA ID Number

FLD008921340

26. Transporter 4

Company Name

ALABAMA AND GULF COAST RAILWAY

U.S. EPA ID Number

ALR000046706

27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

No.

Type

GENERATOR

CLC x 803764

32. Special Handling Instructions and Additional Information

33. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

34. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

TRANSPORTER
DESIGNATED FACILITY

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number MAD010428238	22. Page 3 of 3	23. Manifest Tracking Number 006524509 68F			
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 01841							
25. Transporter 5 Company Name CHEMICAL WASTE MANAGEMENT, INC.				U.S. EPA ID Number ALD000622484			
26. Transporter _____ Company Name				U.S. EPA ID Number			
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
			No.	Type			
32. Special Handling Instructions and Additional Information CE 6X 803764							
TRANSPORTER	33. Transporter Acknowledgment of Receipt of Materials						
	Printed/Typed Name Eric Walker	Signature Eric Walker			Month 7	Day 17	Year 20
DESIGNATED FACILITY	34. Transporter Acknowledgment of Receipt of Materials						
	Printed/Typed Name	Signature			Month	Day	Year
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							

CWM, INC. - ENELLE

***** Receipt # 556767 *****

Page - 1

Date/Time In 7/17/20 10:39

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE MGMT INC

ENELLE

AL

** WEIGHT SUMMARY **

Gross 73020.00

Tare 31980.00

Net 41040.00

Adj. .00

Adj. Net .00

18616Kg

Truck Number 1867 Trailer/Contr #1 707229 #2 #3

Rcpt Doc Ln#	Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cat #	Cnt Code	Total Quan.	W DC	Sched PCB	Federal Cat	EPA Waste Status	ADEX #
--------------	-----	-----------------	---------------	-------------------	--------------------	-------	----------	-------------	------	-----------	-------------	------------------	--------

1	1	006524509GBF	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	32345.00	K	Kilogram	Y PLFB K5	Undeterminable	053122-0031
---	---	--------------	----------	------------------	-------------	---	----	----------	---	----------	-----------	----------------	-------------

053122-0031

Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP

P.O. Num

COD Req'd

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B20- | PHYS. DESCRIPTION

RAD. SCREEN POS NEG

IGN. SCREEN POS NEG

H2O SOL. S F PT/SOL

H2O RXN/TEMP. INITIAL NO RXN REACTS

H2O RXN/TEMP. 5MIN. NO RXN REACTS

ph (PAPER)

CN SCREEN + - (PRUSSIAN BLUE)

CN SCREEN + - (CYANESMO)

SULFIDE SCREEN + -

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPH) SULFIDE (9030)

XH2O BY KF CYANIDE (9010C) TAB WASTE Y N

PAINT FILTER TEST/ P F SPEC. GRAVITY BWZ CONC. PPH

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OR RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY:

DATE:



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37703
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/17/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	75800 lb*
In	07/17/2020 11:05:00	MANUAL WT	awalke13		Tare	35700 lb*
Out	07/17/2020 11:05:00		awalke13		Net	40100 lb
			* Manual Weight		Tons	20.05

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	20.05	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	20.05	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019428238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006451301 GBF			
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978)620-3501				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name CHEMICAL WASTE MANAGEMENT, INC.				U.S. EPA ID Number ALD000622464				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 183 EMELLE AL 35459 Facility's Phone: (205)652-9721				U.S. EPA ID Number ALD000622464				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), 9, PGIII 406412AL		001 DT		18189	K	MA02
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information CI6X 803764 1. APPROVAL# 406412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator OUT OF SERVICE DATE: 06/19/2020 manifest copy to Attn: Dan Walsh W. L. French Weight is estimated in KG. Excavating Corp. 14 Sterling Rd. Billerica, MA. 01862 ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name				Signature		Month Day Year		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Leroy Fitch				Signature <i>Leroy Fitch</i>		Month Day Year 7 17 20		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Addressed wt.								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)				Month Day Year				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Tammy Thrash				Signature <i>Tammy Thrash</i>		Month Day Year 7 17 20		

(4)

CWM, INC. - SNELLE

***** Receipt # 556768 *****

Page - 1

Date/Time In 7/17/20 10:52

Load Type Dumps

Federal EPA ID ALD000622464

Transporter CHEMICAL WASTE NGHT INC
SNELLE AL

** WEIGHT SUMMARY **

Gross 75800.00

Tare 35700.00

Net 40100.00

Adj. 0.00

Adj. Net 0.00

18189 Kg

Truck Number 653475 Trailer/Contr #1 707045 #2 #3

Rcpt Ln#	Doc Ln#	Profile Number	Profile Sales	Generator Invoicing Customer	Cat #	Cnt Code	Total Quan.	W DCS Units	Sched Federal EPA PCB Cat	Waste Status	ADEN #
1	1	006451301GBF	406412AL	CITY OF LAWRENCE LAWRENCE NA	1	DT	1.00	Kilogram	Y PLFB RS	Undeterminable	053122-0031

Doc Seq #	1	ENE	W L FRENCH EXCAVATING CORP	P.O. Num	SUBCC Value	NA					COO Req'd
-----------	---	-----	----------------------------	----------	-------------	----	--	--	--	--	-----------

>51X OR <51X DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B20- | PHYS. DESCRIPTION

RAD. SCREEN POS NEG |

TGN. SCREEN POS NEG |

H2O SOL. S F PT/SOL |

H2O RXN/TEMP. INITIAL NO RXN REACTS |

H2O RXN/TEMP. 5MIN. NO RXN REACTS |

ph (PAPER) |

CN SCREEN + - (PRUSSIAN BLUE) |

CN SCREEN + - (CYANTESNO) |

SULFIDE SCREEN + -

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XN20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ BNZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37704
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/17/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	73440 lb*
In	07/17/2020 11:06:13	MANUAL WT	awalke13		Tare	32000 lb*
Out	07/17/2020 11:06:13		awalke13		Net	41440 lb
			* Manual Weight		Tons	20.72

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	20.72	Tons				
2 MFE-e-Manifest (Landfill	100	1.00	Each				
3 TTN-TRANSPORTATION PER T	100	20.72	Tons				

Total Tax
 Total Ticket

Driver`s Signature

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAD019426238	2. Page 1 of 3	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 006451298 GBF				
5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN: PEDRO SOTO) 207 MARSTON STREET LAWRENCE MA 01841 Generator's Phone: (978)620-3501				Generator's Site Address (if different than mailing address)					
6. Transporter 1 Company Name CHEMICAL WASTE MANAGEMENT, INC.				U.S. EPA ID Number ALD000622464					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35458 Facility's Phone: (205)652-9721				U.S. EPA ID Number ALD000622464					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
	X	1. RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS. (POLYCHLORINATED BIPHENYL SOLID), PGIII 408412AL		No.	Type	181797	K	MA02	
		2.							
		3.							
		4.							
14. Special Handling Instructions and Additional Information 1. APPROVAL# 408412AL OUT OF SERVICE DATE: 06/19/2020 CWM Record Dept. please mail the facility to generator manifest copy to Attn: Dan Walsh W. L. French Excavating Corp. 14 Sterling Rd. Billerica, MA. 01862 OUT OF SERVICE DATE: 06/19/2020 Weight is estimated in KG. ERI PROVIDER : CHEMTREC (CONTRACT CCN24117)									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name				Signature			Month Day Year		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Ryan Buchanan				Signature Ryan Buchan			Month Day Year 7/17/20		
Transporter 2 Printed/Typed Name				Signature			Month Day Year		
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				Manifest Reference Number:					
Add received wt.									
18b. Alternate Facility (or Generator)				U.S. EPA ID Number					
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)				Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H13A		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest, except as noted in Item 18a									
Printed/Typed Name Tammy Thrash				Signature tammy thrash			Month Day Year 7/17/20		

1

CWM, INC. - ENELLE

***** Receipt # 556772 *****

Page - 1

Date/Time In 7/17/20 11:15

Load Type Dumps

Federal EPA ID ALD900622464

Transporter CHEMICAL WASTE NGHT INC
ENELLE AL

** WEIGHT SUMMARY **

Gross 73448.00

Tare 20,000.00

Net 47,448.00

Adj. 18,791kg.00

Adj. Net .00

Truck Number 3057 Trailer/Contr #1 707230 #2 #3

Recpt Ln#	Doc Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cnt Code	Total Quan.	W DCS Units	Sched Federal PCB Cat	EPA Waste Status	ADEN #
1	006451298BDF	406412AL	CITY OF LAWRENCE	LAWRENCE MA	1	DT	1.00	K	Kilogram Y PLF8 KS	Undeterminable	053122-0031

Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP SUBCC Value - NA P.O. Num COD Req'd

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED FREE LIQUIDS DETECTED? YES / NO
SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: SAMPLER/APPROVAL

SPOT SAMPLE:	B20-	PHYS. DESCRIPTION
RAD. SCREEN	POS NEG	
IGN. SCREEN	POS NEG	
H2O SOL.	S F PT/SOL	
H2O RXN/TEMP. INITIAL	NO RXN REACTS	
H2O RXN/TEMP. 5MIN.	NO RXN REACTS	
ph (PAPER)		
CN SCREEN + - (PRUSSIAN BLUE)		
CN SCREEN + - (CYANESNO)		
SULFIDE SCREEN + -		
ADDITIONAL ANALYTICAL REQ'D?	Y N	

DESCRIBE:
PCB CONC. (PPM) SULFIDE (9030)
KR20 BY KF CYANIDE (9010C) TAB WASTE Y N
PAINT FILTER TEST/ P F SPEC. GRAVITY HWZ CONC. PPM
COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-NAC P-NAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:



CWM - Emelle
 36964 Alabama Highway 17
 Emelle, AL, 35459

Reprint
 Ticket# 37707
 Ph: 205-652-9721

Customer Name WLFRENCH EXCAVATING WL FRENCH Carrier CWM
 Ticket Date 07/17/2020 Vehicle# NA Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0000688
 Destination Grid
 PO#

	Time	Scale	Operator	Inbound	Gross	1 lb*
In	07/17/2020 11:14:10	MANUAL WT	awalke13		Tare	
Out	07/17/2020 11:14:10		awalke13		Net	1 lb
			* Manual Weight		Tons	

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 TSCA DSP/TON - PCB REMED	100	0.00	Tons				
2 TTN-TRANSPORTATION PER T	100	0.00	Tons				

Total Tax
 Total Ticket

Driver`s Signature



Chemical Waste Management
 P.O. Box 55
 36964 Alabama Hwy 17
 Emelle, AL 35459-0055
 (205)652-9721

Manifest Document Number:

W.L. FRENCH EXCAVATING CORP
 14 STERLING ROAD

 BILLERICA, MA 01862
 Attn: DAN WALSH

Site Information

CITY OF LAWRENCE
 207 MARSTON STREET

 LAWRENCE, MA 01841

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. (ALD000622464) has received PCB material from
 CITY OF LAWRENCE

as described on Hazardous Waste Manifest Number 006524516GBF-1
 Waste Management, Inc. hereby certifies that the above described material (excluding PCB liquids, if applicable) was
 landfilled on the dates shown below, in compliance with State and Federal Regulations.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or
 representation (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this
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 under my direct instructions, made the verification that this information is true, accurate and complete.

Al Talbott

Al Talbott, Safety Manager
 July 22, 2020

OSD	Unique ID	Cont #	Profile	Disposed	Description
6/19/20	006524516GBF-01	1	406412AL	7/14/20	PCB REMEDIATION WASTE SOIL

WM

Chemical Waste Management
P.O. Box 55
36964 Alabama Hwy 17
Emelle, AL 35459-0055
(205)652-9721

Manifest Document Number:

W.L. FRENCH EXCAVATING CORP
14 STERLING ROAD

BILLERICA, MA 01862

Attn: DAN WALSH

Site Information

CITY OF LAWRENCE
207 MARSTON STREET

LAWRENCE, MA 01841

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. (ALD000622464) has received PCB material from
CITY OF LAWRENCE

as described on Hazardous Waste Manifest Number 006524515GBF-1

Waste Management, Inc. hereby certifies that the above described material (excluding PCB liquids, if applicable) was landfilled on the dates shown below, in compliance with State and Federal Regulations.

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Al Talbott

Al Talbott, Safety Manager

July 22, 2020

OSD	Unique ID	Cont #	Profile	Disposed	Description
6/19/20	006524515GBF-01	1	406412AL	7/14/20	PCB REMEDIATION WASTE SOIL

WM

Chemical Waste Management
P.O. Box 55
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(205)652-9721

Manifest Document Number:

Site Information

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14 STERLING ROAD

CITY OF LAWRENCE
207 MARSTON STREET

BILLERICA, MA 01862

LAWRENCE, MA 01841

Attn: DAN WALSH

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. (ALD000622464) has received PCB material from
CITY OF LAWRENCE

as described on Hazardous Waste Manifest Number 006524514GBF-1

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Al Talbott /cm

Al Talbott, Safety Manager
July 22, 2020

OSD	Unique ID	Cont #	Profile	Disposed	Description
6/19/20	006524514GBF-01	1	406412AL	7/15/20	PCB REMEDIATION WASTE SOIL

WM

Chemical Waste Management
P.O. Box 55
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Attn: DAN WALSH

Site Information

CITY OF LAWRENCE
207 MARSTON STREET

LAWRENCE, MA 01841

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. (ALD000622464) has received PCB material from
CITY OF LAWRENCE

as described on Hazardous Waste Manifest Number 006524513GBF-1

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Al Talbott / am

Al Talbott, Safety Manager

July 22, 2020

OSD	Unique ID	Cont #	Profile	Disposed	Description
6/19/20	006524513GBF-01	1	406412AL	7/14/20	PCB REMEDIATION WASTE SOIL

WM

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Manifest Document Number:

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Site Information

CITY OF LAWRENCE
207 MARSTON STREET

LAWRENCE, MA 01841

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. (ALD000622464) has received PCB material from
CITY OF LAWRENCE

as described on Hazardous Waste Manifest Number 006524512GBF-1

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Al Talbott /am

Al Talbott, Safety Manager

July 22, 2020

<u>OSD</u>	<u>Unique ID</u>	<u>Cont #</u>	<u>Profile</u>	<u>Disposed</u>	<u>Description</u>
6/19/20	006524512GBF-01	1	406412AL	7/14/20	PCB REMEDIATION WASTE SOIL



Chemical Waste Management
P.O. Box 55
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Manifest Document Number:

W.L. FRENCH EXCAVATING CORP
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BILLERICA, MA 01862

Attn: DAN WALSH

Site Information

CITY OF LAWRENCE
207 MARSTON STREET

LAWRENCE, MA 01841

CERTIFICATE OF DISPOSAL

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CITY OF LAWRENCE

as described on Hazardous Waste Manifest Number 006524509GBF-1

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Al Talbott / am

Al Talbott, Safety Manager

July 22, 2020

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6/19/20	006524509GBF-01	1	406412AL	7/17/20	PCB REMEDIATION WASTE SOIL

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Al Talbott / cm

Al Talbott, Safety Manager

July 22, 2020

<u>OSD</u>	<u>Unique ID</u>	<u>Cont #</u>	<u>Profile</u>	<u>Disposed</u>	<u>Description</u>
6/19/20	006524508GBF-01	1	406412AL	7/17/20	PCB REMEDIATION WASTE SOIL

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Chemical Waste Management
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Site Information

CITY OF LAWRENCE
207 MARSTON STREET

LAWRENCE, MA 01841

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Al Talbott, Safety Manager

July 22, 2020

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6/19/20	006524507GBF-01	1	406412AL	7/15/20	PCB REMEDIATION WASTE SOIL



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Al Talbott

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July 22, 2020

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6/19/20	006524506GBF-01	1	406412AL	7/15/20	PCB REMEDIATION WASTE SOIL

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6/19/20	006524504GBF-01	1	406412AL	7/14/20	PCB REMEDIATION WASTE SOIL



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Site Information

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Al Talbott / cm

Al Talbott, Safety Manager

July 22, 2020

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6/19/20	006524503GBF-01	1	406412AL	7/14/20	PCB REMEDIATION WASTE SOIL

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Al Talbott/am

Al Talbott, Safety Manager

July 22, 2020

OSD	Unique ID	Cont #	Profile	Disposed	Description
6/19/20	006524502GBF-01	1	406412AL	7/17/20	PCB REMEDIATION WASTE SOIL

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Site Information

CITY OF LAWRENCE
207 MARSTON STREET

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CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. (ALD000622464) has received PCB material from
CITY OF LAWRENCE

as described on Hazardous Waste Manifest Number 006451301GBF-1

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Al Talbott, Safety Manager

July 22, 2020

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6/19/20	006451301GBF-01	1	406412AL	7/17/20	PCB REMEDIATION WASTE SOIL

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CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. (ALD000622464) has received PCB material from
CITY OF LAWRENCE

as described on Hazardous Waste Manifest Number 006451298GBF-1

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Al Talbott, Safety Manager

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Attn: DAN WALSH

Site Information

CITY OF LAWRENCE
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Al Talbott, Safety Manager

July 22, 2020

OSD	Unique ID	Cont #	Profile	Disposed	Description
6/19/20	006451049GBF-01	1	406412AL	7/14/20	PCB REMEDIATION WASTE SOIL

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Al Talbott, Safety Manager
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6/19/20	006451048GBF-01	1	406412AL	7/15/20	PCB REMEDIATION WASTE SOIL

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Al Talbott / cm

Al Talbott, Safety Manager

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OSD	Unique ID	Cont #	Profile	Disposed	Description
6/19/20	006451047GBF-01	1	406412AL	7/15/20	PCB REMEDIATION WASTE SOIL

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OSD	Unique ID	Cont #	Profile	Disposed	Description
6/19/20	006451046GBF-01	1	406412AL	7/14/20	PCB REMEDIATION WASTE SOIL

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number M A D 0 1 8 4 2 6 2 3 8	2. Page 1 of 1	3. Emergency Response Phone 800 899-4672	4. Manifest Tracking Number 006360548 GBF	
5. Generator's Name and Mailing Address City of Lawrence 12 Methuen Street Lawrence MA 01840			Generator's Site Address (if different than mailing address) City of Lawrence 207 Marston Street Lawrence MA 01840			
6. Transporter 1 Company Name NRC East Environmental Services, Inc.			U.S. EPA ID Number MAC300098399			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address ENPRO SERVICES OF VERMONT, INC. 64 AVENUE D WILLISTON VT 05496			U.S. EPA ID Number VTR000517052			
Facility's Phone: 802 860-1200						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	UN3432, Polychlorinated biphenyls, solid 9, PGII	002 DM		45	K	MA02 VT01
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information 1)(S.T) Profile# 83982 VT-0820-37763 ERG#171						
NRC JOB# 146851						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name ESTHER ENERACION				Signature <i>Esther Eneracion</i>		Month Day Year 9/28/2020
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name John Dow				Signature <i>John Dow</i>		Month Day Year 9/28/20
Transporter 2 Printed/Typed Name				Signature		Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____ U.S. EPA ID Number _____						
18b. Alternate Facility (or Generator)						
Facility's Phone: _____						Month Day Year
18c. Signature of Alternate Facility (or Generator)						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H141	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name				Signature		Month Day Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY