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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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Table of Contents

Exe	cutive S	Summary	iii
1.	Intro	duction	1
	1.1	Contact Information	1
2.		ription of Release, Site Conditions, and Surrounding Recept CMR 40.0446[4][a])	ors 2
	2.1	Site Description	2
	2.2	Surrounding Land Use and Receptors	2 2 3
	2.3	Release Description and Background	3
3.	RAM	Activities (310 CMR 40.0446[4][b],[c])	4
	3.1	RAM Objectives	4
	3.2	Summary of Work	4
	3.3	Mobilization and Site Preparation	4 5 5
	3.4	Lot 1 RAM Activities	5
		3.4.1 Removal of the asphalt surface cover	5
		3.4.2 Soil Excavation	6
		3.4.3 Soil Verification Sampling	6
		3.4.4 Backfill and Restoration	7
	3.5	Lot 2 RAM Activities	7 7
		3.5.1 Soil Excavation	
		3.5.2 Soil Verification Sampling	8
		3.5.3 Backfill and Restoration	8
4.	Inves	stigatory and Monitoring Data (310 CMR 40.0446[4][c])	9
	4.1	Perimeter and Work Zone Dust Monitoring	9
5.	Rem	ediation Waste (310 CMR 40.0446[4][e])	11
	5.1	Lot 1 Soil and Asphalt	11
	5.2	Lot 2 Soil	11
	5.3	Decontamination Wastes and Personal Protective Equipment	11
6.	Ongo	oing Activities (310 CMR 40.0446[4][f])	12
7.	Findi	ings and Conclusions (310 CMR 40.0446[4][d])	13
8.	Limit	rations	14

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i

Tables

- 1. Laboratory Data Summary Lot 1 Soil
- 2. Laboratory Data Summary Lot 2 Soil

Figures

- 1. Site Location Map
- 2. Disposal Site Plan
- 3. Soil Verification Sample Locations

Appendices

- A. MassDEP Transmittal Form (BWSC106)
- B. Lab Data Reports
- C. MassDEP BOL, LSP Opinion Letter, and Summary of Shipment (Lot 1 Soil and Asphalt)
- D. Hazardous Waste Manifests (Lot 2 Soil and PPE)

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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)

Ileen S. Gladstone, P.E., LSP, LEED AP Senior Vice President GEI Consultants, Inc. 400 Unicorn Park Drive Woburn, MA 01801 781-721-4012 LSP License No. 9719

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 Merrimac 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 EX-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 ($\mu g/m^3$) 22.2 $\mu g/m^3$
- DUST-02: $1.4 \mu g/m^3 19.6 \mu g/m^3$
- DUST-03: $0.2 \mu g/m^3 7.5 \mu g/m^3$
- DUST-04: 12.4 μ g/m³ 68.3 μ g/m³

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 ($100 \mu g/m^3$) or action level ($150 \mu g/m^3$).

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 florisil 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 ($\mu g/m^3$) 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.

Tables

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

				ation 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
					1802441-EX3-01S	1802441-EX3-02S	1802441-EX3-03S	1802441-EX3-048	1802441-FD-03	1802441-EX3-05B	1802441-EX3-06S	1802441-EX3-07S	1802441-EX3-08S	1802441-EX3-098	1802441-FD-04	1802441-EX4-01S	1802441-EX4-02S	1802441-EX4-03B		1802441-EX4-05S
			Sta	rt 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
			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
			Pa	rent Sample	NA	NA	NA	NA	1802441-EX3-04S	NA	NA	NA	NA	NA	1802441-EX3-09S	NA	NA	NA	NA	NA
			La	b 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
			MCP																	1
			Method 1	МСР																1
																				1
Analyte	Method	Units	S-1/GW-3	UCL																
Extractable Petroleum Hydrocarbons (EPH)	MADEP EPH	mg/kg									NT	NT	NT							
C9-C18 Aliphatics			1000	20000	< 21.3	< 22.7	< 25.5	< 20.7	< 20.4	< 19.7										1
C19-C36 Aliphatics			3000	20000	21.9	< 22.7	< 25.5	< 20.7	< 20.4	< 19.7										1
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	6010	mg/kg			NT	NT	NT	NT	NT	NT						NT	NT	NT	NT	NT
Lead			200	6000							11.5 F+	76.4 F+	90.3 F+	406 F+	387 F+					
Polychlorinated Biphenyls (PCBs)	8082	mg/kg			NT															
Aroclor 1260			NS	NS												< 0.06	< 0.06	< 0.06	< 0.05	< 0.05
Total PCB Aroclors			1	100												ND	ND	ND	ND	ND

- General Notes:

 1. In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.
- 2. "c" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 3. 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).
- 6. NT = The sample was not tested for this analyte.
- NT = The sample 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.

- Mr. Word application.
 Mr. Word and a standard and a standard and a standard.
 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

				cation Name		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
			Sa	ample Name	1802441-EX4-06E	3 1802441-EX4-07S	1802441-EX4-08S	1802441-EX4-09B	1802441-EX4-10S	1802441-EX4-11S	1802441-EX4-12E	3 1802441-EX4-13S	1802441-EX4-149	1802441-EX4-15E	1802441-EX4-169	1802441-EX4-178	1802441-EX4-18E	1802441-EX4-19	1802441-EX4-FD-05	1802441-EX4-20S
			Sta	art 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
			S	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
			Pai	rent Sample	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1802441-EX4-19S	NA
			Lai	b 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
			MCP																	
			Method 1	MCP																
Analyte	Method	Units	S-1/GW-3	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		Ĭ	200	6000																
Polychlorinated Biphenyls (PCBs)	8082	mg/kg				1														
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:

 1. In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.
- 2. "c" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 3. 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).
- 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.
- 9. NA = Not applicable.
- Mr. Word application.
 Mr. Word and a standard and a standard and a standard.
 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

			Loc	ation 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
			Sa	imple Name	1802441-EX4-21B	1802441-EX4-22S	1802441-EX4-23S	1802441-EX4-24B	1802441-EX4-25S	1802441-EX4-26S	1802441-EX4-27E	1802441-EX4-28S	1802441-EX4-295	1802441-EX4-FD-06	1802441-EX4-30B	1802441-EX4-31S	1802441-EX4-32S	1802441-EX4-33B
			Sta	rt 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
			S	ample 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
			Pai	rent Sample	NA	1802441-EX4-29S	NA	NA	NA	NA								
			Lal	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
			MCP Method 1	МСР														
Analyte	Method	Units	S-1/GW-3	1														
Extractable Petroleum Hydrocarbons (EPH)	MADEP EPH	mg/kg			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									
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:

 1. In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.
- 2. "c" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 3. 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).
- 6. NT = The sample was not tested for this analyte.
- NT = The sample 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.

- Mr. Word application.
 Mr. Word and a standard and a standard and a standard.
 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

					ocation Name		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-EX1-04E	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
				S	tart 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	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020
				P	arent Sample	NA NA	NA	NA	1802441-EX1-03S	NA									
				L	ab 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
			МСР	МСР															
			Method 1	Method 1	MCP														
Analyte	Method	Units	S-2/GW-3	S-3/GW-3	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

- 1. In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.

 2. "<" = 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.
- 5. UCL = Upper Concentration Limits cited from the MCP 40.0996(6).
- 6. NT = The sample was not tested for this analyte.
- 7. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data reports for the laboratory reporting limit.
- 8. NS = No standard has been established for this analyte.
- 9. NA = Not applicable.
- 10. 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

				Lo	cation 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
				5	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
				S	tart 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	6/25/2020
				P	arent Sample	NA	1802441-EX2-05S	NA	NA	NA	NA	NA							
				L	ab 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
			МСР	МСР															1
			Method 1	Method 1	МСР														1
Analyte	Method	Units		S-3/GW-3	UCL														1
Polychlorinated Biphenyls (PCBs)	8082	mg/kg																	1
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

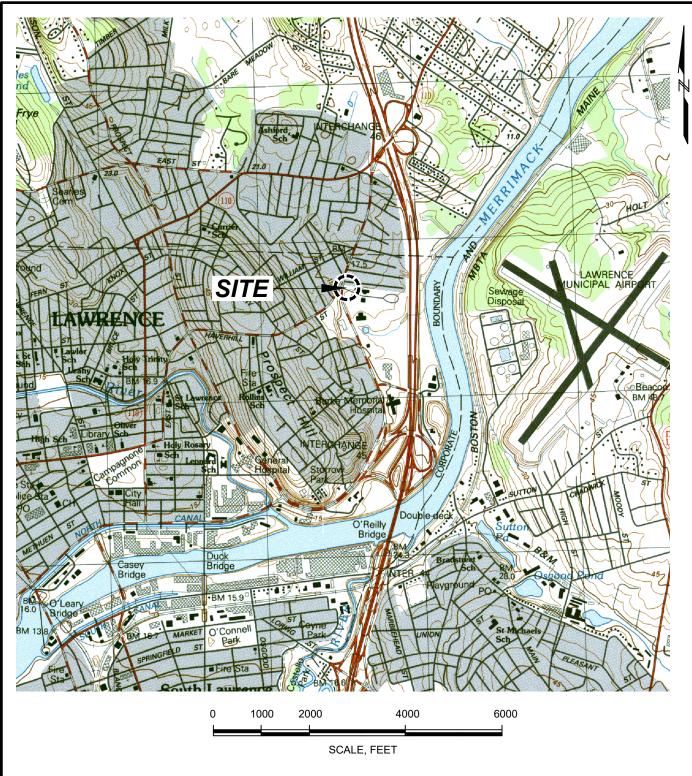
- 1. In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data report.

 2. "<" = 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.
- 5. UCL = Upper Concentration Limits cited from the MCP 40.0996(6).
- 6. NT = The sample was not tested for this analyte.
- 7. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data reports for the laboratory reporting limit.
- 8. NS = No standard has been established for this analyte.
- 9. NA = Not applicable.
- 10. 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.

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.



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

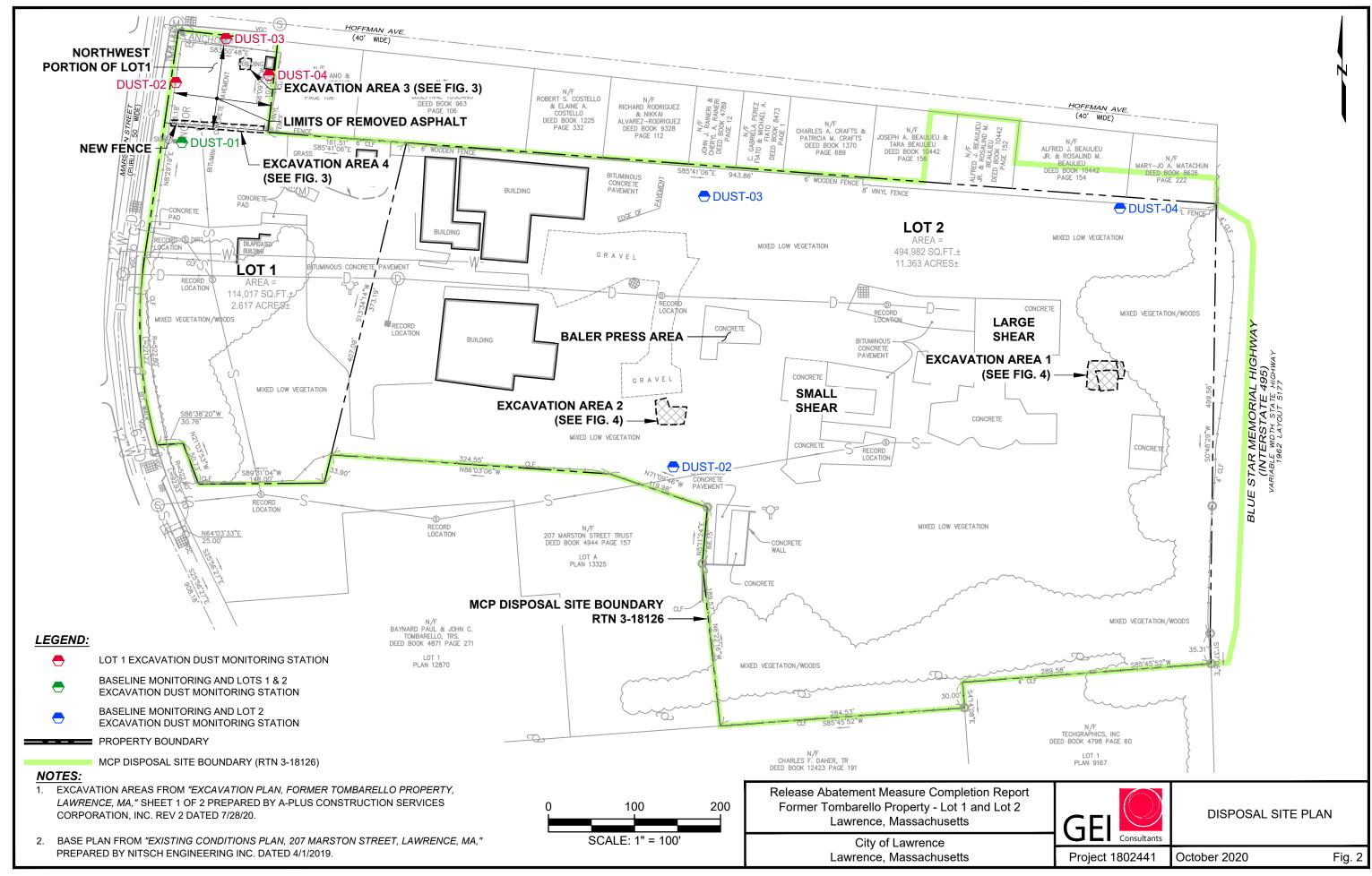
> City of Lawrence Lawrence, Massachusetts

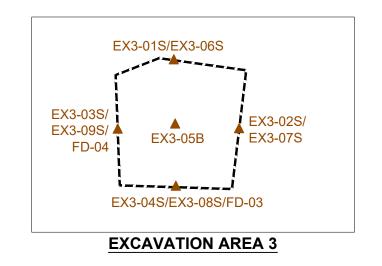


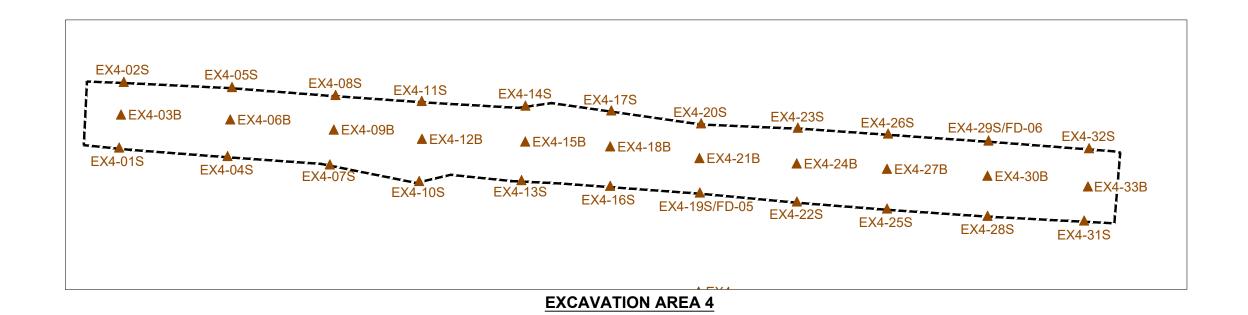
SITE LOCATION MAP

October 2020

Fig. 1



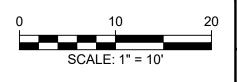




LEGEND:

▲ SOIL VERIFICATION SAMPLE

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

> City of Lawrence Lawrence, Massachusetts

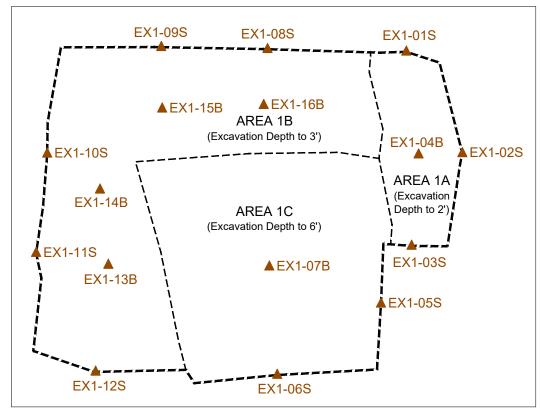


LOT 1 SOIL VERIFICATION SAMPLE LOCATIONS

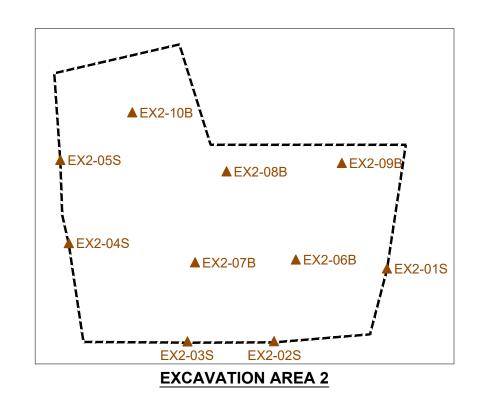
Project 1802441

October 2020

Fig. 3



EXCAVATION AREA 1A, 1B, 1C



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

> City of Lawrence Lawrence, Massachusetts



LOT 2 SOIL VERIFICATION SAMPLE LOCATIONS

Project 1802441 Oc

October 2020

r 2020 Fig. 4

Appendix A

MassDEP Transmittal Form (BWSC106)



A. SITE LOCATION:

Massachusetts Department of Environmental Protection

Bureau of Waste Site Cleanup

RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

B	W	SC	106	

Release Tracking Number

3	-	18126

1. Site Name/Location A	id: TOMBARI	ELLO AND SONS INC HO	OFMAN AVE		
2. Street Address:	207 MARSTON ST				
3. City/Town:	LAWRENCE		4. Zip Code:	018410000	
▼ 5. Check here if the d	isposal site that is th	e source of the release	is Tier Classified. C	Check the current Tier	Classification Category.
a. Tier I	□ b	o. Tier ID	▽ c. 7	Γier II	
B. THIS FORM IS	BEING USED	TO: (check all that ap	oply)		
1. List Submittal Date of	Initial RAM Plan (i	f previously submitted)	6/9/2020		
2. Submit an Initial R	elease Abatement M	Ieasure (RAM) Plan.		(mm/dd/y	уууу)
		is to be erected in or in			· •
b. Specify type of per	rmanent structure: (c	heck all that apply)	i. School	☐ ii. Residential	iii. Commercial
iv. Industrial	v. Other	Specify:			
3. Submit a Modified	RAM Plan of a prev	riously submitted RAN	1 Plan		
4. Submit a RAM Sta	_	Tousty succession and the first			
	•	(This report can only	he submitted through	oh eDFP concurrent	with a RAM Status Report.)
3. Suomit a Homedia	Triomtoring report	. (This report can only	oe saomitea tinou	Sir ebbi , concurrent	with a 10 mi status respons,
a. Type of Report: (ch	neck one)	i. Initial Report	☐ ii. Interim Rep	ort 🗆 iii. Fina	l Report
b. Frequency of Subm	nittal:				
i. A Remedial Mor	nitoring Report(s) su	ıbmitted every six mon	iths, concurrent with	n a RAM Status Repo	rt.
		ubmitted annually, con			
c. Number of Remedi	al Systems and/or M	Ionitoring Programs:			
A separate BWSC106 and/or Monitoring Pro		Monitoring Report, mu this transmittal form.	ist be filled out for e	ach Remedial System	
6. Submit a RAM Cor	mpletion Statement.				
7. Submit a Revised R	RAM Completion Sta	atement.			
8. Provide Additional RT	TNs:				
to a Primary Tier Clas	ssified RTN do not r		This section is inten-	ded to allow a RAM	have been previously linked to cover more than one
b. Provide the addition covered by this RAM	•	g Number(s)]-		
☐ 9. Include in the RAN to 310 CMR 40.0046(3).	A Plan or Modified F	RAM Plan a Plan for th	ne Application of Re	emedial Additives nea	ar a sensitive receptor, pursua
(All s	sections of this tr	ansmittal form m	ust be filled out	unless otherwise	noted above)

Revised: 8/5/2013 Page 1 of 6



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

BWSC 106

12

Release Tracking Number

3	-	18126
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C. RELEASE ON THREAT OF RELEASE COND	THONS THAT WARRA	I IVAIVI.	
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	h. Residence	▼ i. Soil
☐ j. Ground Water ☐ k. Sediments ☐ l.	Wetland	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. Drum	g. Tanker Truck	h. Hose	☐ i. Line
☐ j. UST Describe:	□ k.	Vehicle	oat/Vessel
☐ m. Unknown	CRAP METALS RECYCLING		
3. Type of Release or TOR: (check all that apply)	Dumping ☐ b. Fire ☐	c. AST Removal	□ d. Overfill
			i. TOR Only
□ k. UST Removal Describe:	•		J
□ 1. Unknown	RAP METALS RECYCLING		
 4. Identify Oils and Hazardous Materials Released: (check all the	t apply) 🔽 a. Oils	□ b. Chlorinated	Solvents
D. DESCRIPTION OF RESPONSE ACTIONS:	check all that apply, for volumes	list cumulative amounts	s)
☐1. Assessment and/or Monitoring Only	2. Temporary Covers or	Caps	
☐ 3. Deployment of Absorbent or Containment Materials	4. Temporary Water Sup	olies	
☐ 5. Structure Venting System/HVAC Modification System	6. Temporary Evacuation	or Relocation of Resid	lents
7. Product or NAPL Recovery	8. Fencing and Sign Pos	ing	
☐ 9. Groundwater Treatment Systems	☐ 10. Soil Vapor Extraction		
☐ 11. Remedial Additives	☐ 12. Air Sparging		
☐ 13. Active Exposure Pathway Mitigation System	☐ 14. Passive Exposure Pa	hway Mitigation Syster	n
☐ 15. Monitored Natural Attenuation	☐ 16. In-Situ Chemical Oxid	lation	

Page 2 of 6 Revised: 8/5/2013



Massachusetts Department of Environmental Protection

Bureau of Waste Site Cleanup

BWSC 106

Release Tracking Number

18126

12

RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

ils		
nt	Estimated volume in cubic yards	
☐ ii. Off Site	Estimated volume in cubic yards	
	Town:	State:
	Town:	State:
i. On Site	Estimated volume in cubic yards	
☐ ii. Off Site	Estimated volume in cubic yards	
	Town:	State:
	Town:	State:
☐ i. Cover	Estimated volume in cubic yards	_
	Town:	State:
🗹 ii. Disposal	Estimated volume in cubic yards 254	_
ELLE	Town: EMELLE	State: A
ontainers:		_
	Town:	State:
	Town:	State:
d Media:		
L: 121 CY PHALT: 185 CY		
	Town: ROCHESTER	State: NH
PHALT: 185 CY	Town: ROCHESTER Town:	State: NH
PHALT: 185 CY		
	☐ ii. Off Site ☐ i. On Site ☐ ii. Off Site ☐ ii. Cover	Town: Town:



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

RELEASE ABATEMENT MEASURE (RAM)

TRANSMITTAL FORM
Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

BWSC 106

Release Tracking Number

12

3 - 18126

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:	ILEENS	3. Last Name:	GLADSTONE	
4. Telephone:	7817214012	5. Ext.:	6. Email:	igladstone@geiconsultan
7. Signature:				
8. Date:	9. L	SP Stamp:		
	(mm/dd/yyyy)			

Revised: 8/5/2013 Page 4 of 6



${\bf Massachusetts\ Department\ of\ Environmental\ Protection} \\ {\it Bureau\ of\ Waste\ Site\ Cleanup}$

RELEASE ABATEMENT MEASURE (RAM)

TRANSMITTAL FORMPursuant to 310 CMR 40.0444 - 0446 (Subpart D)

BWSC 106

12

Release Tracking Number

	-	18126
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F. PERSON UNDE	RTAKING RAM:				
1. Check all that apply:	a. change in contact name	□ b. chan	ge of address	c. change in tresponse action	he person undertaking s
2. Name of Organization	: CITY OF LAWRENCE				
3. Contact First Name:	PEDRO		4. Last Name:	SOTO	
5. Street:	12 METHUEN STREET	6. T	itle:	PLANNING DIRE	ECTOR
7. City/Town:	LAWRENCE	8. State:	MA	9. ZIP Code:	018400000
10. Telephone:	9786203501	11. Ext.:		12. Email:	psoto@cityoflawrence.c
G. RELATIONSHI	P TO RELEASE OR TH	REAT OF R	ELEASE OF PI		RTAKING RAM: 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 Ex	kempt Status (as	defined by M.G.L. c	. 21E, s. 2)	
☐ 3. Agency or Public U	Utility on a Right of Way (as def	fined by M.G.L.	c. 21E, s. 5(j))		
4. Any Other Person	Undertaking RAM	Specify Relation	onship:		
H. REQUIRED ATTACI	HMENT AND SUBMITTALS:				
	Remediation Waste, generated ssion of the RAM Completion al form (BWSC108).				
	Response Action(s) on which the EP or EPA. If the box is checked	•	•		
3. Check here to certi Release Abatement Mea	ify that the Chief Municipal Offasure.	ficer and the Loc	al Board of Health l	nave been notified of	of the implementation of a
4. Check here if any corrections to bwsc.ede	non-updatable information properties. p@state.ma.us.	vided on this for	m is incorrect, e.g. I	Release Address/Lo	ocation Aid. Send
5. If a RAM Complia Box 4062, Boston, MA 0	nce Fee is required for this RAN 2211.	M, check here to	certify that a RAM	Compliance Fee wa	s submitted to DEP, P. O.

Revised: 8/5/2013 Page 5 of 6

▼ 6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

BWSC 106

12

Release Tracking Number

18126

inquiry of those individuals in the best of my knowledge and entity legally responsible for	, attest under the pains and penalties d in this submittal, including any and all documer mediately responsible for obtaining the informat belief, true, accurate and complete, and (iii) that I this submittal. I/the person or entity on whose g, but not limited to, possible fines and imprison	ats accompanying this traition, the material information am fully authorized to me behalf this submittal is	nsmittal form, (ii) that, based on my ion contained in this submittal is, to ake this attestation on behalf of the s made am/is aware that there are
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	s 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:	
BILLABL	E SUBJECT TO AN ANNUAL COMPLIANCE AS E YEAR FOR THIS DISPOSAL SITE. YOU MUS I OR DEP MAY RETURN THE DOCUMENT AS I	I LEGIBLY COMPLETE INCOMPLETE. IF YOU S	ALL RELEVANT UBMIT AN INCOMPLETE FORM,
	YOU MAY BE PENALIZED FOR MISSING	A KEQUIKED DEADLIN	E
Date Stamp (DEP USE ONLY		A REQUIRED DEADLIN	<u>E</u>

Page 6 of 6 Revised: 8/5/2013

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



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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.

Lab Number	Sample Name	<u>Matrix</u>	Analysis
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



The Microbiology Division of Thielsch Engineering, Inc.



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

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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 RT	N:				_						
Thi	s form	provides ce	rtif	ication for the follo	owing	data set: 20F1132-01 tl	hrough 20F1132-19						
Mat	trices:	() Ground	ł W	ater/Surface Water		(X) Soil/Sediment	() Drinking Water	() Air	() Other:_				
CA	M Pro	otocol (chec	ck a	all that apply below	w):								
()	8260 CAM		() 7470/7471 Hg CAM III B	() MassDEP VPH (GC/PID/FID) CAM IV A	(X) 8082 PCB CAM V A	Č	014 Total Cyanide/PAC CAM VI A	()	6860 Pero		ate
()	8270 CAM	SVOC II B	() 7010 Metals CAM III C	() MassDEP VPH (GC/MS) CAM IV C	() 8081 Pesticides CAM V B	` ′	196 Hex Cr CAM VI B	()	MassDEF CAM IX A		Н
()	6010 CAM	Metals III A	() 6020 Metals CAM III D	() MassDEP EPH CAM IV B	() 8151 Herbicides CAM V C		xplosives CAM VIII A	()	TO-15 VC CAM IX E		
				Affirmative resp	onses	to questions A throug	gh F are required for ''P	resumptive	Certainty" sta	itus			
A		•					ibed on the Chain-of-Custo pared/analyzed within met				Yes(X)	No ()
В	Were follow	•	al 1	nethod(s) and all a	ssocia	ted QC requirements sp	pecified in the selected CA	M protocol((s)		Yes (X)	No ()
С		_				ytical response actions standard non-conforman	specified in the selected Caces?	AM protoco	l(s)		Yes (X)	No ()
D			-				ts specified in the CAM V eporting of Analytical Dat	-	ty		Yes (X)	No ()
Е				•		ch method conducted wicant modifications).	rithout significant modifica	ation(s)? (Re	efer		Yes ()]	No ()
						omplete analyte list repo					Yes () 1	,	_
F					•	erformance standard no esponses to Questions	on-conformances identified A through E)?	l and evaluat	ted		Yes (X)	No ()
				Responses t	o Que	stions G, H and I belov	w are required for '''Presu	ımptive Ceri	tainty'' status				
G	<u>Data</u>	<u>User Note:</u> 1	Dat	a that achieve "Pre	sumpt		fied in the selected CAM pay not necessarily meet the and WSC-07-350.				Yes (X)	No ()*
Н	_			-		l in the CAM protocol(s					Yes (X)	No ()*
I		-		•	-	•	elected CAM protocol(s)?				Yes (X)	No ()*
*Al	l nega	itive respon	ses	must be addresse	ed in a	in attached laboratory	v narrative.						
I, i	the un	dersigned,	atte	est under the pain	s and	penalties of perjury t	hat, based upon my pers	onal inquir	y of those resp	onsibl	'e		

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: ______ Date: July 08, 2020
Printed Name: Laurel Stoddard Position: Laboratory Director

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486 ◆ Service



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	%	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		79 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		56 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		48 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		49 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		61 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		49 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		56 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				

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The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	%	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		73 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		58 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		56 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
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
	%Re	ecovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				

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Service



The Microbiology Division of Thielsch Engineering, Inc.



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

Surrogate: Tetrachloro-m-xylene [2C]

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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	Batch
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
	%	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		85 %		30-150				
Surrogate: Tetrachloro-m-xylene		55 %		30-150				

30-150

76 %



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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)

Analyte	Results (MRL)	MDL	Method	Limit	<u>DF</u>	Analyzed	Sequence	Batch
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
	%	Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
C 1201								

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

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The Microbiology Division of Thielsch Engineering, Inc.



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

Surrogate: Tetrachloro-m-xylene [2C]

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>	Results (MRL)	$\underline{\mathbf{MDL}}$	Method	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	Batch
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
	9/	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		62 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		48 %		30-150				

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30-150



The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	%	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		56 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				

Service



The Microbiology Division of Thielsch Engineering, Inc.



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

Surrogate: Tetrachloro-m-xylene

Surrogate: Tetrachloro-m-xylene [2C]

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)

Analyte	Results (MRL)	$\underline{\mathbf{MDL}}$	Method	<u>Limit</u>	<u>DF</u>	Analyzed S	<u>Sequence</u>	Batch
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
		%Recovery	Qualifier	Limits				
		,	•					
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		114 %		30-150				

30-150

30-150

57 %

79 %

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The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		51 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		114 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>75 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		73 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		97 %		30-150				
Surrogate: Tetrachloro-m-xylene		49 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				

Service



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9/	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		68 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		52 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		59 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1132 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 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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		96 %		30-150				
Surrogate: Tetrachloro-m-xylene		50 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>75 %</i>		30-150				

Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1132

Quality Control Data

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

8082A	Polych	lorinated	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			
Currentes Describeration and	0.0157		mg/kg wet	0.02500	63	<i>30-150</i>			
Surrogate: Decachlorobiphenyl Surrogate: Decachlorobiphenyl [2C]	0.0204		mg/kg wet	0.02500	81	30-150			
Surrogate: Tetrachloro-m-xylene	0.0156		mg/kg wet	0.02500	<i>63</i>	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0173		mg/kg wet	0.02500	69	30-150			
LCS Dup			<u> </u>						
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		0.5000	72	40-140	7	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet mg/kg wet	0.5000	72 82	40-140	3	30	
, 100101 1200 [20]	т.0	0.05	וווק/גען WEL	0.5000	02	-10 ITU	J	Ju	
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	<i>75</i>	30-150			

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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 Most Probably Number MPN **TNTC** Too numerous to Count **CFU Colony Forming Units**

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

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The Microbiology Division of Thielsch Engineering, Inc.



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

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

◆ Service

ESS Laboratory Sample and Cooler Receipt Checklist

Client	:	GEI Consult	tants, Inc TE	3		Project ID:	20F1132	
Obia a diff	Saltronand Sites		E00 0			Received:	6/30/2020	
Snippea/L	pelivered via:		ESS Courier	<u>'</u>		Due Date: for Project:	7/8/2020 5 Day	
	nanifest prese			No	6. Does COC	match bottles?	·	Yes
2. Were co	⊔stody seals p	resent?	[No		nplete and correct?		Yes
3. Is radial	tion count <10	00 CPM?	Г	Yes	8. Were samp	oles received intact?		Yes
	oler Present? : 2.4	load with:		Yes		informed about short I		Yes / No
	OC signed and			Yes		unalyses received odis		
	bcontracting Sample IDs: Analysis: TAT:			/ (10)		As received? s in aqueous VOAs? nanol cover soil complete	ely?	Yes / No Yes / No Yes / No (NA
a. If metals	e samples pro s preserved u vel VOA vials	pon receipt:		Yes No Date:	Time: Time: _	By	:	
Sample Re	eceiving Notes	s:		-		 ,		
	ere a need to		oject Managei client?		Yes / No Yes / No Time:	Ву	·	
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cy.	
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 ozjar	NP		

NΡ

60858

Yes

17

N/A

Yes

8 oz jar

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	ient: GEI Consultants, Inc TB				_	ESS Project ID:	:	20F1132	32			
						Date Received:	<u> </u>	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 cor Are barcode Are all Flash, Are all Hex C Are all QC st Are VOA stic	ntainers sca labels on co point sticker Chrome stick lickers attach	rrect contair s attached/c ers atta c hed ned?	ners? container ID # 1?		Yes (N Yes / N	Io (NA) Io (NA)						
Completed By: Reviewed By: Delivered By:					Date & Time:	6/20/20/20/20/20/20/20/20/20/20/20/20/20/	किये	1916 2004 2004				

Chain-of-Custody Record					Laboratory: ESS				Laboratory Job # 20F1(32							
			·				Project Info	rmatio	n	····	(Lab	use only)	****		<u> </u>	
		Project Na	ame: Forn	ner Tomba	rello Site			Proje	ect Lo	cation	: Lawı	ence, N	lassac	husetts		† <u> </u>
		Project Nu	umber: 18	02441	 -			Project Manager: Leslie Lombardo								_ Page _2_ of _3_
_	Consultants		 			<u> </u>		,				- LOND				
	nicorn Park Drive	Send Repo						<u> </u>	<u> </u>		Pr	eservat	ive			Sample Handling
	burn, MA 01801 l: 781.721.4000	eastregion llombardo	data@geid @deiconsu	consultants	s.com,			None			1					
	: 781.721.4000 : 781.721.4073	bfongmurd	lock@geic	onsultants.	, .com			Z	<u> </u>		<u> </u>	 Analysis			<u> </u>	Samples Field
NOD DDEGU					····				 		<u>'</u>	-u lai yos	-	_		Filtered
MCP PRESU	MPTIVE CERTAINTY RE	QUIRED (-	YES	NO					1							YES NO NA
If Yes, Are MC	P Analytical Methods Red	quired?			(YES)	NQ	NA	1						1		Sampled Chinned
Are Drinking V	Vater Samples Submitted	?			YES	(NO)	NA NA				1				}	Sampled Shipped With Ice
If Yes, Have D	rinking Water Sampling F	Requirements	Been Met	?	YES	NO	(NA)	ĺ					1			YES NO
Lab Sample	CEI Comoto ID		Colle	ection		No. of	Sampler(s)	1		1	1		1			Sample Specific Remark
Number	GEI Sample ID	,	Date	Time	Matrix	Bottles	initials	PCB					1			
<u>_</u>	1802441-EX4-1	14S	6/30/2020	14:30	Soil	1	BFM	Х						 	\top	
3	1802441-EX4-1	15B	6/30/2020	14:37	Soil	1	BFM	Х						 	† -	
	1802441-EX4-1	6S	6/30/2020	14:45	Soil	1	BFM	Х							 	
4	1802441-EX4-1	7S	6/30/2020	14:51	Soil	1	BFM	Х					†	 	 	
_5	1802441-EX4-1	8B	6/30/2020	14:59	Soil	1	BFM	Х	_					<u> </u>	 	
6	1802441-EX4-1	9S	6/30/2020	15:06	Soil	1	BFM	Х		1				<u> </u>	 	
7	1802441-EX4-2	.0S	6/30/2020	15:14	Soil	1	BFM	Х							 	
8	1802441-EX4-2	1B	6/30/2020	15:20	Soil	1	BFM	Х								<u> </u>
9	1802441-EX4-2	28	6/30/2020	15:26	Soil	1	BFM	Х							†	
19	1802441-EX4-2	3S	6/30/2020	15:33	Soil	1	ВЕМ	Х								
17	1802441-EX4-2	4B	6/30/2020	15:40	Soil	1	BFM	Х						1	 	
12	1802441-EX4-2	5S	6/30/2020	15:45	Soil	1	BFM	Х								
13	1802441-EX4-2		6/30/2020	15:51	Soil	_ 1	BFM	Х								
standard be me	eded: GEI requires that, vertically and set of the set	Within the spe er nossible	cified metl	nod, the m	ost stringei	nt Method	1 MCP			urnard				Before s	submit	ting rush turnaround
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1		6/30/20	1559		\sim					I _X		ner		can be		confirm that the TAT
Relinquished by: (sign	ature)	Date Time: Received (1) (signature)				TOP					Day		Can be a	acriiev	ea.	
2 : GEL Petri ner:	SEL Retrigorate 6/30/20 17:45 2.						5-Day	Additi	3-Da] -		Remarks:		
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3.			1	_{3.} \				Manual	soxhle	t extract	ion.					
Relinquished by: (signa	ature)	Date: 7		Received by: (s	signature)	<u> </u>	· · · · · · · · · · · · · · · · · · ·			_						<u> </u>
1.			ľ	4.												
		<u></u>		<u></u>						-						

Chain-of-Custody Record					Laboratory: ESS						Lak	orato	y Job)# H	NZI	137
				·			Project Info	rmatio	n		(Lab	use only)			FL	177
	Project Name: Former Tombarello Site							Project Location: Lawrence, Massachusetts								┪ <u> </u>
Project Number: 1802441				D2441	<u>-</u>			Project Manager: Leslie Lombardo								_
400 11	nicorn Park Drive	Send Red	ort and ED	D to:				_			Pr	eservati	ive			Comple Headline
	burn, MA 01801		ndata@geio		s.com,			<u>e</u>	1	1	Τ.,	C3CI VAL			T	Sample Handling
	: 781.721.4000	llombardo	@geiconsu	Itants.com	,			None		ŀ			ľ			í
<u> </u>	: 781.721.4073	<u>.l</u>	dock@geic	<u></u>	.com						,	Analysis	3		·	Samples Field Filtered
	MPTIVE CERTAINTY REC		- YES	NO	•	2										YES NO NA
If Yes, Are MC	P Analytical Methods Red	uired?			(YES)	NO	NA	1					ľ		1	Sampled Shipped
Are Drinking W	Vater Samples Submitted?	?			YES	(NO)	NA	1	ŀ							With Ice
If Yes, Have D	rinking Water Sampling R	equirement	s Been Met	?	YES	NO	(NA)			1				1	1	YES NO
Lab Sample	0510		Colle	ction	<u> </u>	No. of	Sampler(s)	1								Sample Specific Remark
Number	GEI Sample ID		Date	Time	Matrix	Bottles	Initials	PCB								
14	1802441-EX4-2	7B	6/30/2020	15:56	Soil	1	BFM	Х								
Ī<	1802441-EX4-2	<u>8S</u>	6/30/2020		Soil	11	BFM	Х								
١٤	1802441-EX4-2	98	6/30/2020		Soil	1	BFM	Х								
Ŋ	1802441-EX4-30B		6/30/2020		Soil	1	BFM	Х								
14	1802441-FD-0		6/30/2020	 	Soil	1	BFM	Х	<u> </u>			<u> </u>				
19	1802441-FD-0	<u>6</u>	6/30/2020	12:03	Soil	1	BFM	Х			<u> </u>					
			 _	,		<u></u>	<u> </u>	<u> </u>		<u> </u>						
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MCP Level New standard be me	eded: GEI requires that, vet for all analytes wheneve	vithin the sp	l ecified meti	nod, the m	ost stringe	nt Method	1 MCP			 Turnare						tting rush turnaround
Relinquished by samp	ler: (signature)	Date	Time:	Received by: (signature) —	7 N	2						must notify the			
	*	6/30/20	1559	1 -OFI Re	frigerator (Jacks .		···					confirm that the TAT			
Helinquished by: (signa	ature)	Date :		Received by	signature)		<u> </u>	10-Day can be achieve				cu.				
2 . GEl Refriger	ator 6/20/20	6/30/20	17,45	2.	4			5-Day 3-Day Additional Requirements/Co			_ s/Comm	ante/[Ramarke:			
Relinquished by: (signa	ature)	Date :		Received by: \	ignature)			Manual	soxhle	t extrac						tomai ka,
 Relinquished by: (signal 	eturo)	Data		3.												
	awo)	Date :	Time:	Received by: (s	signature)											
4			<u> </u>	4.										<u> </u>		

etemp, 2.4



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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



The Microbiology Division of Thielsch Engineering, Inc.



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

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Tel: 401-461-7181

Dependability

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1133

MassDEP Analytical Protocol Certification Form

Thi	s form provides	ertif	ĭca	ation for the follow	ving	data set: 20F11	33-01 t	hrough 20F1133-13					
Ma	trices: () Grou	nd W	ate	er/Surface Water		(X) Soil/Sed	iment	() Drinking Water	() Air	() Other:_			
CA	M Protocol (ch	eck a	a11	that apply below):								
()	8260 VOC CAM II A	()	7470/7471 Hg CAM III B	() MassDEP V (GC/PID/FID) CAM IV A		(X) 8082 PCB CAM V A	Č	0014 Total Cyanide/PAC CAM VI A	() 6860 CAM	Perchlo VIII B	rate
()	8270 SVOC CAM II B	()	7010 Metals CAM III C	() MassDEP V (GC/MS) CAM IV C	PH	() 8081 Pesticides CAM V B	` ′	7196 Hex Cr CAM VI B	() Mass		Ή
()	6010 Metals CAM III A	()	6020 Metals CAM III D	() MassDEP E CAM IV B	PH	() 8151 Herbicides CAM V C	` ′	xplosives CAM VIII A	() TO-15 CAM		
			A	Affirmative respo	nse.	s to questions 2	1 throu	gh F are required for "P	resumptive	Certainty" sta	itus		
A	-							ibed on the Chain-of-Custo pared/analyzed within met		•	Yes (2	X) No (()
В	Were the analyte followed?	ical 1	me	thod(s) and all as	soci	ated QC require	ments s	pecified in the selected CA	M protocol	(s)	Yes (X) No (()
С	-			ective actions and entified performan		•		specified in the selected Caces?	AM protoco	ol(s)	Yes (X) No (()
D	Does the labora	tory	rep	port comply with	all t	ne reporting req	uiremen	ts specified in the CAM V Reporting of Analytical Dat		ty	Yes (X) No (()
Е	VPH, EPH, AP	H an	d I		ıs ea	ch method cond	lucted w	vithout significant modifica		efer	Yes () No (()
				` '	_			orted for each method?			Yes () No (()
F				AM protocol QC a re (including all "]				on-conformances identified A through E)?	l and evalua	ted	Yes (X) No (()
				-	_			w are required for '''Presu	-	•			
G	<u>Data User Note</u>	Date	a ti	hat achieve ''Pres	итр	tive Certainty'' s	tatus m	ified in the selected CAM ₁ not necessarily meet the a) and WSC-07-350.			Yes (X) No (()*
Н				nce standards spe							Yes (X) No (()*
I	_			_		_		elected CAM protocol(s)?			Yes (X) No (()*
*Al	ll negative respo	nses	m	ust be addressed	l in	an attached la	borator	y 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: _____ Date: July 08, 2020
Printed Name: Laurel Stoddard Position: Laboratory Director

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		85 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		64 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				

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The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		60 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		62 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		64 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		68 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				

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Service



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79</i> %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)	WIDE	8082A	<u> Limit</u>	1	07/06/20 22:30	Sequence	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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		86 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	Limit	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		98 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 07/08/20 11:32	Sequence	Batch DG00602
Afocior 1016	ND (0.03)		6062A		1	07/08/20 11:32		DG00002
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
		%Recovery	Qualifier	Limits				
		·	-					
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		50 %		30-150				
Surrogate: Tetrachloro-m-xylene		49 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		54 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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)

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				

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Service



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		56 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		56 %		30-150				
Surrogate: Tetrachloro-m-xylene		55 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		63 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1133

Quality Control Data

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

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			
Commenter Describeration and	0.0212		mg/kg wet	0.02500	<i>85</i>	30-150			
Surrogate: Decachlorobiphenyl	0.0210		mg/kg wet	0.02500	84	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0205		mg/kg wet	0.02500	82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0201		mg/kg wet	0.02500	80	30-150			
Surrogate: Tetrachloro-m-xylene [2C]			<u> </u>						
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000	90	40-140	0.2	30	
Aroclor 1016 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									

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1133

Quality Control Data

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

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			
Commence to a Describing to the condition of the conditio	0.0215		mg/kg wet	0.02500	86	<i>30-150</i>			
Surrogate: Decachlorobiphenyl	0.0217		mg/kg wet	0.02500	<i>87</i>	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0226		mg/kg wet	0.02500	90	30-150			
Surrogate: Tetrachloro-m-xylene	0.0224		mg/kg wet	0.02500	89	30-150			
Surrogate: Tetrachloro-m-xylene [2C] LCS Dup			<u> </u>						
Aroclor 1016	0.5	0.02	ma/ka wet	0.5000	96	40-140	1	30	
Aroclor 1016 Aroclor 1016 [2C]	0.5	0.02	mg/kg wet mg/kg wet	0.5000 0.5000	96 95	40-140	1	30	
Aroclor 1010 [20]	0.5	0.02		0.5000	101	40-140	0.6	30	
		0.02	mg/kg wet		98			30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000	30	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									

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1133

Quality Control Data

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

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	<i>85</i>	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			
Commentes Describeration and	0.0217		mg/kg wet	0.02500	87	30-150			
Surrogate: Decachlorobiphenyl	0.0216		mg/kg wet	0.02500	87	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0226		mg/kg wet	0.02500	91	30-150			
Surrogate: Tetrachloro-m-xylene	0.0226		mg/kg wet	0.02500	90	30-150			
Surrogate: Tetrachloro-m-xylene [2C] LCS Dup			3, 3						
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		0.5000	102	40-140	0.8	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet mg/kg wet	0.5000	98	40-140	0.6	30	
Alocioi 1200 [20]	0.5	0.02	mg/kg wet	0.3000	30	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			

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The Microbiology Division of Thielsch Engineering, Inc.



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 Limit of Detection LOD Limit of Quantitation LOQ **Detection Limit** DL Initial Volume I/V 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.

No Recovery NR

[CALC] Calculated Analyte

SUB Subcontracted analysis; see attached report

RLReporting Limit

EDL Estimated Detection Limit MF Membrane Filtration **MPN** Most Probably Number **TNTC** Too numerous to Count **CFU Colony Forming Units**

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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

 $\underline{http://www.dep.pa.gov/Business/Other Programs/Labs/Pages/Laboratory-Accreditation-Program.aspx}$

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

ESS Laboratory Sample and Cooler Receipt Checklist

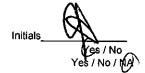
Client:	GEI Consultants, Inc TB		·	ESS Projec	tID:	20F1133	
Shipped/Delivered	Via: ESS Courier	<u>. </u>		Date Recei Project Due D Days for Pro	ved: ate:	6/30/2020 7/8/2020	_ _
Air bill manifest p Air No.:		No		6. Does COC match		5 Day	Yes
Were custody sea Is radiation count	als present?	No Yes		7. Is COC complete8. Were samples re9. Were labs inform	ceived intact?	ort holds & rushes?	Yes Yes / No NA
Is a Cooler Prese Temp: 2.4 Was COC signed		Yes		10. Were any analy			Yes No
т.	Ds: sis: AT: properly preserved? d upon receipt: itals frozen:	s / No Date:		12. Were VOAs rece a. Air bubbles in aq b. Does methanol c Time: Time:	ueous VOAs? over soil comp	letely? By: By:	Yes / No Yes / No Yes / No NA
	ed to contact Project Manager? I to contact the client?		Yes No Yes / No	Time:		Ву:	
Sample Contain Number ID		fficient	Containe	r Type P	reservative	Record pH (Cy	

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?



ESS Laboratory Sample and Cooler Receipt Checklist

Client:	GEI Consultants, Inc TB	ESS Project ID: _	20F1133	
		Da@ Received:	6/30/2020	
Are all Hex	Chrome stickers attached?	Yes/No/NAA		_
Are all QC s	stickers attached?	Yes / No / NA)		
Are VOA sti	ckers attached if bubbles noted?	Yes / No / NA		
Completed By:	Al	Date & Time:	1915	
Reviewed By:		Date & Time: (630 20)	<u></u> 2002	
Delivered By:	L IQ	67070) <u>2007</u>	

Chain-of-Custody Record					Laboratory: ESS						(Lab use only)						
-					_L	····	Project Info	rmatio	n		(Lab	use only)		OUT	112	}	
		Project N	lame: Forn	ner Tomba	arello Site			Project Location: Lawrence, Massachusetts						-			
J - G	GOSUITAOIS	Project N	lumber: 18	02441	Project Manager: Leslie Lombardo						Page _1_ of _3						
- 400 H	Inicorn Park Drive	Send Rep	ort and ED	D to:		<u> </u>		Preservative									
	burn, MA 01801	eastregion	ndata@gei	data@geiconsultants.com,						e o o o o o o o o o o o o o o o o o o o					$\overline{}$	Sample Handling	
	l: 781.721.4000	llombardo	bardo@geiconsultants.com, gmurdock@geiconsultants.com							1				-			
FX	(: 781.721.4073 	prongmure	dock@geid	onsultants	sultants.com				Analysis					Samples Field			
MCP PRESUMPTIVE CERTAINTY REQUIRED (- YES) NO						·····	<u> </u>	1	<u> </u>	T	<u> </u>			<u> </u>		Filtered	
If Yes. Are MC	P Analytical Methods Re	nuired?						4	1						ł	YES NO NA	
	Vater Samples Submitted	•			YES	NO	NA			1						Sampled Shipped	
	Prinking Water Sampling F		5		YES	(NO)	NA NA	j		1	1	1	1			With Ice	
	Withing Water Sampling F	requirement	,		YES	NO	(NA)	1		ŀ		1		1	1	(YES) NO	
Lab Semple Number	e GEI Sample ID		Collection Date Time		Matrix	No. of Bottles	Sampler(s)	PCB								Sample Specific Remark	
i	1802441-EX4-(018	6/30/2020		Soil	1	BFM	X	 	1	 	 	 -	- -	 	ļ	
<u></u> ス	1802441-EX4-0		6/30/2020		Soil	1 1	BFM	X			╅	┿	-		┼		
3	1802441-EX4-0		6/30/2020	12:49	Soil	1 1	BFM	X	<u> </u>	+	\vdash	┿	+	<u> </u>	┼─		
5	1802441-EX4-0	 048	6/30/2020	12:58	Soil	1	BFM	X	-	┼	 	 	+	 	+-		
	1802441-EX4-05S		6/30/2020	13:09	Soil	1	BFM	X		 	 -	 	+	+	┼─		
6	1802441-EX4-0	06B	6/30/2020	13:17	Soil	1	BFM	X	 	 	╁	╁──	+		┼─		
7	1802441-EX4-0)7S	6/30/2020	13:28	Soil	1	BFM	X			 -	 -	 -	 	┼	 	
4	1802441-EX4-0)8S	6/30/2020	13:39	Soil	1	BFM	Х	<u> </u>	 	 		╁	<u> </u>	\vdash		
9	1802441-EX4-0	9B	6/30/2020	13:47	Soil	1	BFM	Х	<u></u>	 	 	 	 	 	 		
10	1802441-EX4-1	0S	6/30/2020	13:55	Soil	1	BFM	Х		_	\vdash	_	 		 		
11	1802441-EX4-1	1S	6/30/2020	14:05	Soil	1	ВЕМ	Х			_		 		 	<u> </u>	
12	1802441-EX4-1	2B	6/30/2020	14:13	Soil	1	BFM	Х	-	<u> </u>			†	<u> </u>	 		
15	1802441-EX4-1		6/30/2020	14:21	Soil	1	BFM	Х	_		 	 	 	-	┼─┤	. <u>.</u>	
MCP Level Ner standard be me	eded: GEI requires that, vertical section in the section of the se	within the spe	ecified met	hod, the m	ost stringe	nt Method	1 MCP			urnard			<u> </u>	Before s	submit	ting rush turnaround	
Relinquished by samp			Time:	Received by: (s	signature)	1 /				Busine	ss da	ys):		samples	s, you	must notify the	
		6/20/20	1559	•	\overline{a}	261	2	ľ	Vormal			ner				onfirm that the TAT	
Relinquished by: (signa	ature)	Date:		Received by (s	rigerator	6/70/20			0-Day		7-[Day	_	can be a	achiev	ed.	
GEL Defricer	ator 6/30/40 FFM	6/30/20		(1)	6	2012	١ ١		5-Day		3-Da			<u> </u>			
Relinquished by: (signa	ature)	Date :		Received by (eignature)	20100	,	<u>. </u>		Additi	onal	Require	ement	s/Comm	ents/F	Remarks:	
3.				•	•			Manual	soxhlet	extract	ion.						
Relinquished by: (signa	ature)	Date :		3. Received by: (s	signature)						-			_		-	
ļ .	·	[ľ	1													
				<u>4</u>													



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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



The Microbiology Division of Thielsch Engineering, Inc.



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

185 Frances Avenue, Cranston, RI 02910-2211

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The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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 R	TN:				_					
This	s form provides of	ertif	ication for the fol	lowing da	nta set: 20F1134-01 t	hrou	gh 20F1134-11				
Mat	crices: () Groun	nd W	ater/Surface Water	er	(X) Soil/Sediment	() Drinking Water	() Air	() Other:_		
CA	M Protocol (che	eck a	all that apply belo	ow):							
()	8260 VOC CAM II A	() 7470/7471 H ₂ CAM III B	g ()	MassDEP VPH (GC/PID/FID) CAM IV A	() 8082 PCB CAM V A	(0014 Total Cyanide/PAC CAM VI A	` '	0 Perchlorate M 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		ssDEP APH M IX A
(X)	6010 Metals CAM III A	() 6020 Metals CAM III D	(X)	MassDEP EPH CAM IV B	() 8151 Herbicides CAM V C		xplosives CAM VIII A	()	15 VOC M IX B
			Affirmative res	sponses to	o questions A throug	gh F	are required for "P	resumptive	Certainty" sta	itus	
A	•						on the Chain-of-Custo l/analyzed within met		•	Yes	(X) No ()
В	Were the analyt followed?	ical 1	method(s) and all	associate	d QC requirements s	pecif	ied in the selected CA	M protocol	(s)	Yes	(X) No ()
С	•			-	cal response actions ndard non-conformar	-	fied in the selected C.	AM protoco	ol(s)	Yes	(X) No ()
D		-					ecified in the CAM V ting of Analytical Dat	-	ty	Yes	(X) No ()
Е			•		method conducted want modifications).	vithou	at significant modifica	ntion(s)? (Re	efer	Yes	(X) No ()
			•		plete analyte list rep						() No()
F				-	formance standard no sponses to Questions		nformances identified rough E)?	and evalua	ted	Yes	(X) No ()
			Responses	to Quest	ions G, H and I belo	w are	required for '''Presu	ımptive Cer	tainty'' status		
G	Data User Note:	Dat	a that achieve ''Pı	resumptiv	e Certainty" status mo	ay no	in the selected CAM j			Yes	(X) No ()*
Н	-		-		<i>0 CMR 40. 1056 (2)(k</i> n the CAM protocol(Ves	() No (X)*
I				-	list specified in the se						() No (X) *
	-		•		attached laborator					- 20	., -()
I, t	the undersigned	l, att	est under the pa	ins and p	enalties of perjury t	that,	based upon my pers	onal inquir	y of those resp	onsible	

for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Date: July 08, 2020

Signature: ______ Date: July 08, 2020
Printed Name: Laurel Stoddard Position: Laboratory Director

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyst		Sequence	Batch
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
	9	%Recovery	Qualifier	Limits					
Surrogate: 1-Chlorooctadecane		<i>55 %</i>		40-140					
Surrogate: 2-Bromonaphthalene		93 %		40-140					

185 Frances Avenue, Cranston, RI 02910-2211

Surrogate: 2-Fluorobiphenyl

Surrogate: O-Terphenyl

Tel: 401-461-7181

Fax: 401-461-4486

40-140

40-140

http://www.ESSLaboratory.com

91 %

62 %



The Microbiology Division of Thielsch Engineering, Inc.



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

Extraction Method: 3546

Final Volume: 1

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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyst		Sequence	Batch
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
		%Recovery	Qualifier	Limits					
Surrogate: 1-Chlorooctadecane		53 %		40-140					
Surrogate: 2-Bromonaphthalene		99 %		40-140					

Surrogate: 2-Fluorobiphenyl 40-140 Surrogate: O-Terphenyl 59 % 40-140



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyst	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits					
Surrogate: 1-Chlorooctadecane		56 %		40-140					
Surrogate: 2-Bromonaphthalene		109 %		40-140					

Surrogate: 2-Fluorobiphenyl 110 % 40-140 Surrogate: O-Terphenyl 70 % 40-140



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyst		Sequence	Batch
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
		%Recovery	Qualifier	Limits					
Surrogate: 1-Chlorooctadecane		48 %		40-140					
Surrogate: 2-Bromonaphthalene		122 %		40-140					

Surrogate: 2-Fluorobiphenyl 120 % 40-140 Surrogate: O-Terphenyl 66 % 40-140



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyst		Sequence	Batch
C9-C18 Aliphatics 1	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
		%Recovery	Qualifier	Limits					
Surrogate: 1-Chlorooctadecane		61 %		40-140					
Surrogate: 2-Bromonaphthalene		109 %		40-140					

Surrogate: 2-Fluorobiphenyl 110 % 40-140 Surrogate: O-Terphenyl 76 % 40-140



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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

 Analyte
 Results (MRL)
 MDL
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Lead
 11.5 (4.56)
 6010C
 1
 KJK
 07/03/20
 3:00
 2.31
 100
 DG00138

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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

 Analyte
 Results (MRL)
 MDL
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Lead
 76.4 (4.42)
 6010C
 1
 KJK
 07/03/20
 3:37
 2.42
 100
 DG00138

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Service



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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

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

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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

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

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The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyst		Sequence	Batch
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
	Ģ	%Recovery	Qualifier	Limits					
Surrogate: 1-Chlorooctadecane		60 %		40-140					
Surrogate: 2-Bromonaphthalene		111 %		40-140					

Surrogate: 2-Fluorobiphenyl 112 % 40-140 Surrogate: O-Terphenyl 71 % 40-140



The Microbiology Division of Thielsch Engineering, Inc.



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

reiceili Solius. 90

ESS Laboratory Work Order: 20F1134 ESS Laboratory Sample ID: 20F1134-11

Sample Matrix: Soil Units: mg/kg dry

Extraction Method: 3050B

Total Metals

 Analyte
 Results (MRL)
 MDL
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Lead
 387 (4.22)
 6010C
 1
 KJK
 07/03/20 4:09
 2.62
 100
 DG00138

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1134

Quality Control Data

					Spike	Source		%REC		RPD	
Analyte		Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
				Total Meta	ıls						
Batch DG00138 - 3	050B										
Blank											
Lead		ND	5.00	mg/kg wet							
LCS											
Lead		147	15.2	mg/kg wet	144.0		102	80-120			<u></u>
LCS Dup											
Lead		141	12.5	mg/kg wet	144.0		98	80-120	4	20	
Duplicate	Source: 20F1134-06										
Lead		14.6	4.46	mg/kg dry		11.5			24	35	
Duplicate	Source: 20F1134-09										
Lead		332	4.55	mg/kg dry		406			20	35	<u></u>
Matrix Spike	Source: 20F1134-06										
Lead		62.6	4.64	mg/kg dry	23.19	11.5	220	75-125			M+
Matrix Spike	Source: 20F1134-09										
Lead		478	4.46	mg/kg dry	22.30	406	323	75-125			MT
Reference											
Lead		493	21.7	mg/kg wet	500.0		99	70-130			<u></u>
Reference											
Lead		3840	20.0	mg/kg wet	4490		86	83-113			

mg/kg wet 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				
Triacontane (C30)	ND	0.5	mg/kg wet				
Surrogate: 1-Chlorooctadecane	1.28		mg/kg wet	2.000	64	40-140	
Blank							
2-Methylnaphthalene	ND	0.20	mg/kg wet				
Acenaphthene	ND	0.40	mg/kg wet				

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Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Batch DF03001 - 3546

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1134

Quality Control Data

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

MADEP-EPH Extractab	ole Petrol	leum Hyc	Irocarbons
---------------------	------------	----------	------------

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				
Surrogate: 2-Bromonaphthalene	48.2		mg/L	50.00	96	40-140	
Surrogate: 2-Fluorobiphenyl	47.3		mg/L	50.00	95	40-140	
Surrogate: O-Terphenyl	1.59		mg/kg wet	2.000	80	40-140	
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	
Surrogate: 1-Chlorooctadecane	1.27		mg/kg wet	2.000	63	40-140	
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	

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.

%REC



RPD

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1134

Quality Control Data

Spike

Source

Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifie
	MAD	EP-EPH Ext	ractable Petro	oleum Hy	/drocarbo	ons				
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	
Fetracosane (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			5,5							
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 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	
Scrizo(a)anun accine	۷.۵۲	0.70	ilig/kg wet	2.000		102	40 140	13	30	

185 Frances Avenue, Cranston, RI 02910-2211

2.04

2.00

Benzo(b)fluoranthene

Benzo(a)pyrene

mg/kg wet Tel: 401-461-7181

mg/kg wet

Fax: 401-461-4486

102

40-140

40-140

http://www.ESSLaboratory.com

19

30

0.40

2.000

2.000



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1134

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
	MADEP-	FPH Extract:	able Petrol	eum Hvc	Irocarbon	S				

MADEP-EPH Extractable	Petroleum	Hyc	irocarbons
-----------------------	-----------	-----	------------

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	

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CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1134

Notes and Definitions

	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

§ 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.

Range result excludes the concentration of the C9-C10 aromatic range.

Avg Results reported as a mathematical average.

NR No Recovery

F/V

[CALC] Calculated Analyte

Final Volume

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

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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

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Tel: 401-461-7181

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ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc TB			ESS Project ID		
01: 1/0 11 11:11			Date Received		
Shipped/Delivered Via: ESS Courier			Project Due Date		
			Days for Projec	t: 5 Day	
1. Air bill manifest present? Air No.: NA	No		6. Does COC match be	ottles?	Yes
2. Were custody seals present?	No		7. Is COC complete an	nd correct?	Yes
3. Is radiation count <100 CPM?	Yes		8. Were samples recei	ived intact?	Yes
4. Is a Cooler Present?	Yes		9. Were labs informed	d about short holds & rushes?	Yes / No ANA
Temp: 2.4 Iced with: Ice	103		10. Were any analyse	s received outside of hold time?	Yes (No)
5. Was COC signed and dated by client?	Yes				·
11. Any Subcontracting needed? Yes // ESS Sample IDs: Analysis: TAT:	(No)		12. Were VOAs receiv a. Air bubbles in aque b. Does methanol cov	ous VOAs?	Yes / No Yes / No Yes / No (NA)
Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen:	Yes / No Date: Date:		Time:	By:	
Sample Receiving Notes:					
14. Was there a need to contact Project Manager a. Was there a need to contact the client?		Yes / No Yes / No			
Who was contacted?	Date:_		Time:	Ву:	
				·	

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

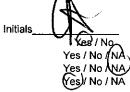
Were all containers scanned into storage/lab?

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?



ESS Laboratory Sample and Cooler Receipt Checklist

Client:	GEI Consultants, Inc TB	ESS Project IE	D: 20F1134	
	,	Date Received	d: 6/30/2020	Ξ
Are VOA stickers	attached if bubbles noted?	Yes / No /NA		
	2)			
Completed		Colsaha	1910	
Ву:	Mas	Date & Time:	1110	
Reviewed By:		Date & Time: (20)	p 2001	
Delivered Bv:		७२	2001	

Chain-o	Labora	Laboratory: ESS Laboratory Job # (Lab use only)													
							Project Infor	matior	1		(Lab use o	nly)	$-(\nu_{\Gamma}$	12	
		Project N	Name: Forn	ner Tomb	arello Site					ation:	Lawrence	e, Massa	chusetts		_
_ ا		Project N	Number: 18	02441	-			Project Manager: Leslie Lombardo						Page _L of _L	
_	Consultants									lager.	resile fo	Ilinai uc			
	Jnicorn Park Drive		port and ED			•					Preser	vative			Sample Handling
	burn, MA 01801 1: 781.721.4000	llombardo	ndata@geio o@geiconsu	consultant	s.com,			N	暑	景					
	(; 781.721.4000 (; 781.721.4073	bfongmur	rdock@geic	onsultants	s.com		•	=		2					Samples Field
			_				· · · · · · · · · · · · · · · · · · ·		Т	Т					Filtered
MCP PRESU	MPTIVE CERTAINTY REC	AUIRED (YES	NO]						YES NO NA
If Yes, Are MC	CP Analytical Methods Req	quired?			(YES)	NQ	NA	ŢŢ							
Are Drinking Water Samples Submitted?				YES	(NO)) <u>NA</u>	1 2	9						Sampled Shipped <u>With Ice</u>	
If Yes, Have Drinking Water Sampling Requirements Been Met?				YES	NO	(NA)	1 \$	1 24	0				I		
Lab Sample	CEI Comple ID		Colle	ection		No. of	Sampler(s)	*	TOTAL LEAD	ZZ	1			ŀ	YES NO Sample Specific Remarks
Number	CEI Comple ID				Matrix	Bottles	Initials	EPH WARRE PAH	1/2	MS/MSD				- 1	our property i tellion to
	1802441- FX3-015		6/30/20	(003	SOFE	1	RFM	X				_	- 		
2	1802441-643-025		6/30/26	1011	SOFL	1	BFM	文			_ _	+-	 	$\neg \dagger$	
3	180241-ERS-035		6/30/20	1020	SOSL	T	DFM	X					 		
4	1402441-EA-045		6/38/26	1022	502L	(BFM	×				- -	 	\neg	
5	1802441-EX3-05B		6340	1032	SOL	ī	BFM	*				_ _	1	\neg	
9	1802441-500-065		6/30/20	1040	SOFL	•	BFM		人			\dashv	 	\neg	
<u> </u>	1802441- ER3-075		6/3/20	1049	Sorc		BFM		×				1 1		
رج م	1907411-EX3-083		6/30/20	1058	50FL	1	BFM		×					\neg	
9	1802441- FB-09B		6/30/20	1107	5026	1	BFM		X	×	_ _		1		······································
10	1402441-FD-03		6/30/20	1260	FORL	1	BFM	X					1 1	\neg	
-11	1802441-ED-04		6/30/20	1201	SOFL		BFM		*				" 	$\neg \uparrow$	
			· · ·	<u> </u>										\dashv	
MCP Level No	adad: GEI requires that w				لـــــــــــــــــــــــــــــــــــــ										
standard be me	eded: GEI requires that, we t for all analytes wheneve	/ithin the sp r possible.	ecified meti	nod, the m	iost stringer	nt Method	1 MCP				ind Time				ng rush turnaround
Relinquished by samp	iler: (signature)		Time:	Received by:	(signature)	7 - DX/c	2				s days):	·	samples,	you rr	nust notify the
-		6/30/20	1555	1. GEI Re	ofrigerator.	DEM (A			lormal 0-Day		Other _		can be ac		onfirm that the TAT
Relinquished by: (sign	elinquished by: (signature) Date: Time: Received by:				(signature)	3	6/0		o-Day 5-Day		7-Day		000110000	/IIIO VO	u.
GEI Robrigerator BAM 6/20/20 17:45 2.				A/2		TAP 6/3/2			 \dditic	3-Day nal Reg	uiremen	_/ its/Comme	nte/R	amarka.	
elinquished by: (signature) Date: Time: Received by: ((signature)		JUST Y JUST			100000	iidi iioq	un Graca	Its/Comme	lis/ne	marks;	
3	3.						t								
Relinquished by: (signa	plinquished by: (signature) Date: Time: Received by:				(signature)								-	·-	
4.				ı 4.			ľ	-				<u></u>			



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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.

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



The Microbiology Division of Thielsch Engineering, Inc.



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

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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.



The Microbiology Division of Thielsch Engineering, Inc.



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 R	TN:					_					
Thi	s form	provides c	ertif	ĭca	ation for the follow	ving	data set: 20G0018-01 t	hrough 20G0018-03					
Ma	trices:	() Groun	nd W	ate	er/Surface Water		(X) Soil/Sediment	() Drinking Water	() Air	() Other:_		_	
CA	M Pr	otocol (che	eck a	all	that apply below)):							
()	8260 CAM		()	7470/7471 Hg CAM III B	() MassDEP VPH (GC/PID/FID) CAM IV A	(X) 8082 PCB CAM V A	C	014 Total Syanide/PAC SAM VI A	() 6860 Pe CAM VI		ate
()	8270 CAM	SVOC II B	()	7010 Metals CAM III C	() MassDEP VPH (GC/MS) CAM IV C	() 8081 Pesticides CAM V B	() 7	196 Hex Cr AM VI B	() MassDl CAM IX		Н
()	6010 CAM	Metals III A	()	6020 Metals CAM III D	() MassDEP EPH CAM IV B	() 8151 Herbicides CAM V C		xplosives CAM VIII A	() TO-15 V CAM IX		
				A	Affirmative respo	nses	to questions A throug	gh F are required for ''P	resumptive	Certainty'' sta	tus		
A				ei	ved in a condition	cons	sistent with those descri	ibed on the Chain-of-Custo pared/analyzed within met	ody, properly	у	Yes (X)	No ()
В	Were	-	ical 1	me	ethod(s) and all ass	ocia	ted QC requirements sp	pecified in the selected CA	M protocol((s)	Yes (X)	No ()
С		_					rtical response actions standard non-conforman	specified in the selected Caces?	AM protoco	l(s)	Yes (X)	No ()
D	Does	the labora	tory	rej	port comply with a	ıll th	e reporting requiremen	ts specified in the CAM V eporting of Analytical Dat	-	У	Yes (X)	No ()
Е	VPH	, EPH, AP	H an	d 7	ГО-15 only: a. Wa	s eac	_	ithout significant modifica		fer	Yes ()	No ()
					* *	-	omplete analyte list repo	orted for each method?			Yes ()	No ()
F						_	erformance standard no esponses to Questions	n-conformances identified A through E)?	and evaluat	red	Yes (X)	No ()
					-	_		v are required for '''Presu	_	-			
G	<u>Data</u>	<u>User Note:</u>	Dat	a t	hat achieve ''Presu	mpt		fied in the selected CAM pay not necessarily meet the and WSC-07-350.			Yes (X)	No ()*
Н	_			_			in the CAM protocol(s				Yes (X)	No ()*
I		_			-	-	-	elected CAM protocol(s)?			Yes (X)	No ()*
		-					n attached laboratory			C A			

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: ______ Date: July 09, 2020
Printed Name: Laurel Stoddard Position: Laboratory Director

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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)

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		53 %		30-150				

Surrogate: Tetrachloro-m-xylene 47 % 30-150 Surrogate: Tetrachloro-m-xylene [2C] *57* % 30-150



The Microbiology Division of Thielsch Engineering, Inc.



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)

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9/	6Recovery	Qualifier	Limits				

Surrogate: Decachlorobiphenyl	60 %	30-150
Surrogate: Decachlorobiphenyl [2C]	59 %	30-150
Surrogate: Tetrachloro-m-xylene	61 %	30-150
Surrogate: Tetrachloro-m-xylene [2C]	71 %	30-150

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CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20G0018

Quality Control Data

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

8082A Polychlorinated Biphenyls (PCB)

ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
ND	0.02	mg/kg wet						
		mg/kg wet						
0.0239		mg/kg wet	0.02500	95	30-150			
0.5	0.02	mg/kg wet	0.5000	98	40-140			
0.5	0.02	mg/kg wet	0.5000	96	40-140			
0.5	0.02	mg/kg wet	0.5000	101	40-140			
0.5	0.02	mg/kg wet	0.5000	99	40-140			
0.0215		ma/ka wet	0.02500	86	30-150			
0.022 /		9,119 1100	0.02500					
0.5	0.02	ma/ka wot	0.5000	06	40.140	1	20	
0.5	0.02	mg/kg wet	0.3000	90	TU-140	0.7	JU	
0.0215		mg/kg wet	0.02500	86	30-150			
0.0218		mg/kg wet	0.02500	87	30-150			
0.0218		mg/kg wet	0.02500	87	30-150			
0.0215		mg/kg wet	0.02500	86	30-150			
	ND N	ND 0.02 ND 0.03 ND 0.02 ND 0.03 ND 0.02	ND 0.02 mg/kg wet MD 0.02 mg/kg wet 0.0222 mg/kg wet 0.0239 mg/kg wet 0.05 0.02 mg/kg wet 0.5 0.02	ND 0.02 mg/kg wet ND 0.02500 0.0219 mg/kg wet 0.02500 0.0226 mg/kg wet 0.5000 0.5 0.02 mg/kg wet 0.5000 0.5 0.02 mg/kg wet 0.5000 0.5 0.02 mg/kg wet 0.02500 0.0216 mg/kg wet 0.02500 0.05 0.02 mg/kg wet 0.02500 0.05 0.02 mg/kg wet 0.000 0.5 0.02 mg/kg wet 0.000	ND	ND O.02 mg/kg wet O.02500 88 30-150 O.0227 mg/kg wet O.02500 99 30-150 O.0239 mg/kg wet O.02500 99 40-140 O.5 O.02 mg/kg wet O.5000 99 40-140 O.5 O.0226 mg/kg wet O.2500 87 30-150 O.0227 mg/kg wet O.2500 99 30-150 O.0226 mg/kg wet O.2500 99 30-150 O.0227 mg/kg wet O.2500 99 30-150 O.0226 mg/kg wet O.2500 99 30-150 O.0227 mg/kg wet O.2500 99 30-150 O.0226 mg/kg wet O.2500 99 30-150 O.0227 mg/kg wet O.0500 99 40-140 O.5 O.02 mg/kg wet O.5000	ND 0.02 mg/kg wet ND 0.02500 95 30-150 0.0229 mg/kg wet 0.5000 96 40-140 0.5 0.0 mg/kg wet 0.5000 99 40-140 0.5 0.0 mg/kg wet 0.5000 99 40-140 0.5 0.0 mg/kg wet 0.2500 87 30-150 0.0217 mg/kg wet 0.2500 89 30-150 0.0224 mg/kg wet 0.2500 99 30-150 0.5 0.02 mg/kg wet 0.2500 99 40-140 0.5 0.5 0.02 mg/k	ND

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Notes and Definitions

U	Analyte included in the analysis, but not detected
) ID	A 1 NOT DETECTED 1 1 1 NOT (LOC)

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

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

F/V

[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

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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

 $\underline{http://www.dep.pa.gov/Business/Other Programs/Labs/Pages/Laboratory-Accreditation-Program.aspx}$

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Fax: 401-461-4486

ESS Laboratory Sample and Cooler Receipt Checklist

Client:		SEI Consulta	ints, Inc TB		ESS P	roject ID:		<u> </u>
			500 Oi		Date F	Received: Due Date:	7/1/2020 7/9/2020	-
Shipped/De	elivered Via:		ESS Courier			r Project:	5 Day	
	anifest prese			No	6. Does COC I	natch bottles?		Yes
	•				7. Is COC com	plete and correc	at?	Yes
	stody seals p		L	No J	8. Were samp	les received inta	ct?	Yes
3. Is radiati	ion count <10	O CPM?	<u>L</u>	Yes	9. Were labs i	nformed about	short holds & rushes?	Yes / No (NA
	ler Present? 0.9	Iced with:	lce	Yes	10. Were any	analyses receive	ed outside of hold time?	Yes (No
5. Was CC	C signed and	d dated by cl	ient?	Yes				
	bcontracting i Sample IDs: Analysis: TAT:		Yes /	No		s received? in aqueous VO anol cover soil c		Yes / No Yes / No Yes / No (NA
a. If metals	e samples pro s preserved u rel VOA vials	pon receipt:	ved? (Yes)/ No Date: Date:	Time:		By: By:	<u> </u>
Sample Re	ceiving Notes	S :						
14. Was the Who was c	ere a need to	contact Procontact the	oject Manager client?	? Date:	Yes / No Yes / No Time:_		Ву:	
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservativ		vanide and 608 cides)
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		
Are barcod Are all Flas Are all Hex Are all QC	ontainers sc le labels on c	orrect contains attached/okers attacheched?	container ID # d?	circled?	res / No Yes / No NA Yes / No / NA Yes / No / NA Yes / No / NA			
Completed By:	_Qpn	the !	Forcia		Date & Time: 7/1/2	0 15:2		
Reviewed By:		<u> </u>			Date & Time:	[1]}P	1550	
Delivered Bv:	(7/1/20_	1550	

Chain-o	Chain-of-Custody Record	p.	Laboratory		ESS			aborator	Laboratory Job # Onland	75.70	240
				Pro	Project Information	ation	#	Lab use only)	1		077
		Project Name: Former Tombarello Site	arello Site			Project Lo	cation: La	wrence, M	Project Location: Lawrence, Massachusetts		1
<u> </u>	Consultants	Project Number: 1802441				Project Ma	Project Manager: Leslie Lombardo	slie Lomba	rdo		Fage_1_01_1_
400 L	, e	Send Report and EDD to:						Preservative	Ve		Sample Handling
W T	Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073	eastregiondata@geiconsultants.com, llombardo@geiconsultants.com, bfongmurdock@geiconsultants.com	ts.com, n, s.com			anoN					Samuel Salumes
								Analysis			Filtered
MCP PRESU	MCP PRESUMPTIVE CERTAINTY REQUIRED	UIRED (YES) NO	(_			YES NO NA
If Yes, Are MC Are Drinking V	If Yes, Are MCP Analytical Methods Required? Are Drinking Water Samples Submitted?	uired?	YES	9 9	A S	·					
lf Yes, Have □	If Yes, Have Drinking Water Sampling Requirements Been Met?	quirements Been Met?	YES) ₂	S S			<u>-</u>			With Ice
Lab Sample Number	GEI Sample ID	Collection Date Time	Matrix	No. of S. Bottles	Sampler(s)	Z808 BC					Sample Specific Remarks
7	186244-584-315	6/20/20 1628	が		SF2	d ×	1	1			
70	1902441-FX4-725	1/20/20 1627	Sate	9	BFA	X	-	-			
5	1802441-EX4-338	1630/20 1135	Sorc		BAN	×					
				+			1	_			
				+		_	1	-		-	
				-			-				
						+	-	+-		 	
					:	+		_			
MCP Level Ne standard be me	MCP Level Needed: GEI requires that, within the satandard be met for all analytes whenever possible	MCP Level Needed: GEI requires that, within the specified method, the most stringent Method 1 MCP standard be met for all analytes whenever possible.	ost stringent M	ethod 1 MC	<u>ئ</u>		Turnaround Time	1 Time	Before	e submittir	Before submitting rush turnaround
Relinquished by sameler: (signature)	eler. (signature)	Date: Received by: (signature)	(signature)		1		iness	days):	sampl	les, you m	samples, you must notify the
	2	1/2	GEI Refrigerator			Normal_X	צ	Other	labora	atory to co	laboratory to confirm that the TAT
Relinquished by: (signature)		Time:	d by: (signature)	,		10-Day		7-Day	- Ca	call be achieved.	ri
2. GEI Refrigerator		120 1125		7		(BA)		al Require	Additional Requirements/Remarks:	ıments/Re	marks:
,	+,	Neceived by: (signation of the control of the contr	(signature)	,	Ma	Manual soxhlet extraction.	extraction.				
of Relinquished by: (signature		Time: Receive	(signature)			i					
18 18	12	7/1/20 14:36 4. (Jm)	mber Herria	ie				į			
											6/24/2020



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

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The Microbiology Division of Thielsch Engineering, Inc.



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

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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.



The Microbiology Division of Thielsch Engineering, Inc.



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 F	RTN:			<u> </u>			
This	s form provides	certit	fication for the follo	wing data set: 20G0019-01 1	chrough 20G0019-02			
Mat	rices: () Grou	nd W	Vater/Surface Water	() Soil/Sediment	() Drinking Water	() Air	(X) Other:_	Aqueous
CA	M Protocol (ch	ieck :	all that apply below	7):				
()	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	C;	014 Total yanide/PAC AM 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	` ′	196 Hex Cr AM 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	, ,	xplosives CAM VIII A	() TO-15 VOC CAM IX B
			Affirmative respo	onses to questions A throug	gh F are required for ''P	Presumptive (Certainty'' sta	utus
A	-			n consistent with those descr e field or laboratory, and pre				$\operatorname{Yes}(\mathbf{x}) \operatorname{No}()$
В	Were the analy followed?	tical	method(s) and all as	sociated QC requirements s	pecified in the selected CA	M protocol(s	s)	Yes (x) No ()
C	Were all requir			analytical response actions nce standard non-conformar	•	AM protocol	(s)	Yes(x) No()
D	Does the labora	atory	report comply with	all the reporting requirementes for the Acquisition and R	ts specified in the CAM V		y	$\operatorname{Yes}(\mathbf{x}) \operatorname{No}(\)$
Е	VPH, EPH, AF	PH an	nd TO-15 only: a. Wa	as each method conducted was ignificant modifications).			fer	Yes (X) No ()
				the complete analyte list rep	orted for each method?			Yes () No ()
F	* *			and performance standard no No" responses to Questions		l and evaluate	ed	$\operatorname{Yes}(X) \operatorname{No}()$
			-	Questions G, H and I below		-	-	
G	Data User Note	: Dat	ta that achieve ''Pres	CAM reporting limits speci cumptive Certainty" status mod ad in 310 CMR 40. 1056 (2)(k	y not necessarily meet the			Yes (x) No ()*
Н	•		•	cified in the CAM protocol(Yes () No (X)*
I			-	nalyte list specified in the se				Yes (x) No ()*
*Al		_	•	d in an attached laborator	* '			

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: _____ Date: <u>July 09, 2020</u>
Printed Name: <u>Laurel Stoddard</u> Position: <u>Laboratory Director</u>

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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

Final Volume: 1

Initial Volume: 1070

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>	Results (MRL)	MDL Method	<u>Limit</u>	DF	Analyst	Analyzed	Sequence	Batch
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
	9/	Recovery Qualifier	Limits					

Surrogate: 1-Chlorooctadecane	56 %	40-140
Surrogate: 2-Bromonaphthalene	81 %	40-140
Surrogate: 2-Fluorobiphenyl	117 %	40-140
Surrogate: O-Terphenyl	96 %	40-140



The Microbiology Division of Thielsch Engineering, Inc.



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)

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
-		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20G0019

Quality Control Data

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

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	<i>87</i>	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



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Batch DG00203 - 3510C

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20G0019

Quality Control Data

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

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				
Surrogate: 1-Chlorooctadecane	34.3		ug/L	50.00	69	40-140	
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				
Surrogate: 2-Bromonaphthalene	35.9		ug/L	50.00	<i>72</i>	40-140	
Surrogate: 2-Fluorobiphenyl	60.8		ug/L	50.00	122	40-140	
Surrogate: O-Terphenyl	49.8		ug/L	50.00	100	40-140	
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	
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The Microbiology Division of Thielsch Engineering, Inc.



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	Qualifie
	MAD	EP-EPH Extra	actable Petr	oleum Hy	drocarbo	ns				
Batch DG00203 - 3510C										
Docosane (C22)	43	5	ug/L	50.00		87	40-140			
Podecane (C12)	31	5	ug/L	50.00		62	40-140			
Eicosane (C20)	43	5	ug/L	50.00		86	40-140			
lexacosane (C26)	43	5	ug/L	50.00		86	40-140			
lexadecane (C16)	41	5	ug/L	50.00		81	40-140			
exatriacontane (C36)	28	5	ug/L	50.00		56	40-140			
onadecane (C19)	43	5	ug/L	50.00		86	40-140			
lonane (C9)	20	5	ug/L	50.00		40	30-140			
ctacosane (C28)	43	5	ug/L	50.00		86	40-140			
ctadecane (C18)	43	5	ug/L	50.00		86	40-140			
etracosane (C24)	44	5	ug/L	50.00		88	40-140			
etradecane (C14)	37	5	ug/L	50.00		73	40-140			
riacontane (C30)	40	5	ug/L	50.00		80	40-140			
Surrogate: 1-Chlorooctadecane	33.0		ug/L	50.00		66	40-140			
cs										
-Methylnaphthalene	43.2	5.0	ug/L	50.00		86	40-140			
cenaphthene	47.8	5.0	ug/L	50.00		96	40-140			
cenaphthylene	46.1	5.0	ug/L	50.00		92	40-140			
nthracene	50.8	5.0	ug/L	50.00		102	40-140			
enzo(a)anthracene	44.0	5.0	ug/L	50.00		88	40-140			
enzo(a)pyrene	44.5	10.0	ug/L	50.00		89	40-140			
enzo(b)fluoranthene	44.7	5.0	ug/L	50.00		89	40-140			
enzo(g,h,i)perylene	41.6	10.0	ug/L	50.00		83	40-140			
enzo(k)fluoranthene	56.8	10.0	ug/L	50.00		114	40-140			
11-C22 Unadjusted Aromatics1	806	100	ug/L	850.0		95	40-140			
hrysene	52.2	10.0	ug/L	50.00		104	40-140			
ibenzo(a,h)Anthracene	42.1	5.0	ug/L	50.00		84	40-140			
luoranthene	53.4	10.0	ug/L	50.00		107	40-140			
luorene	50.9	5.0	ug/L	50.00		102	40-140			
ndeno(1,2,3-cd)Pyrene	42.9	5.0	ug/L	50.00		86	40-140			
aphthalene	38.6	10.0	ug/L	50.00		77	40-140			
henanthrene	53.0	5.0	ug/L	50.00		106	40-140			
yrene	54.8	5.0	ug/L	50.00		110	40-140			
urrogate: 2-Bromonaphthalene	41.6		ug/L	50.00		83	40-140			
urrogate: 2-Bromonaphtnaiene iurrogate: 2-Fluorobiphenyl	58.0		ug/L	50.00		116	40-140			
Surrogate: O-Terphenyl	46.8		ug/L	50.00		94	40-140			
CS										
-Methylnaphthalene Breakthrough	0.0		%				0-5			
aphthalene Breakthrough	0.0		%				0-5			
CS Dup										
19-C36 Aliphatics1	379	100	ug/L	400.0		95	40-140	7	25	
29-C18 Aliphatics1	231	100	ug/L	300.0		77	40-140	9	25	
ecane (C10)	28	5	ug/L	50.00		57	40-140	11	25	
Occosane (C22)	47	5	ug/L	50.00		93	40-140	7	25	



The Microbiology Division of Thielsch Engineering, Inc.



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
	MAD	EP-EPH Extra	actable Petr	oleum Hy	drocarbo	ns				
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	
Surrogate: 1-Chlorooctadecane	36.0		ug/L	50.00		<i>72</i>	40-140			
.CS Dup										
	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	
ndeno(1,2,3-cd)Pyrene	46.6	5.0	ug/L	50.00		93	40-140	8	20	
laphthalene	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	
Surrogate: 2-Bromonaphthalene	42.4		ug/L	50.00		85	40-140			
Surrogate: 2-Fluorobiphenyl	59.3		ug/L	50.00		119	40-140			
Surrogate: O-Terphenyl	49.3		ug/L	50.00		99	40-140			
LCS Dup										
-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20G0019

Notes and Definitions

	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.

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

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

Service



The Microbiology Division of Thielsch Engineering, Inc.



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

 $\underline{http://www.dep.pa.gov/Business/Other Programs/Labs/Pages/Laboratory-Accreditation-Program.aspx}$

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

◆ Service

ESS Laboratory Sample and Cooler Receipt Checklist

Client:		GEI Consulta	nts, Inc TB				oject ID:	20G0019	
Shipped/D	elivered Via:		ESS Courier			Project D	eceived: ue Date:	7/1/2020 7/9/2020	
						Days for	Project:	5 Day	
	anifest prese			No		6. Does COC m			Yes
2. Were cu	stody seals p	present?		No		-	olete and correct?		Yes
3. Is radiat	ion count <10	00 CPM?	Ĺ	Yes		8. Were sample	es received intact	,	Yes
4 is a Coo	ler Present?		_ 	Yes	1	9. Were labs in	iformed about <u>st</u>	ort holds & rushes?	Yes / No (NA
	0.9		Ice	100	<u> </u>	10. Were any a	analyses received	outside of hold time?	Yes (No)
5. Was CC	C signed and	d dated by cli	ent?	Yes					
	bconfracting Sample IDs: Analysis: TAT:		Yes /				s received? in aqueous VOAs not cover soil con		Yes (No Yes / No Yes / No (NA
a. If metals	e samples pro s preserved u vel VOA vials		/ed?	Yes No Date: Date:		Time: Time:		By:	<u>.</u>
Sample Re	ceiving Note:	s:							
	ere a need to	o contact Pro contact the c	-	? Date:	Yes (No Yes (No	Time:		By:	
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Contail	ner Type	Preservative	Record pH (Cy Pestic	
					41.0	Amber	HCI		
1 1	60988 60989	Yes Yes	N/A N/A	Yes Yes		Amber	HCI		
2	60990	Yes	N/A	Yes	1L <i>A</i>	Amber	NP		
2	60991	Yes	N/A	Yes	1L <i>F</i>	Amber	NP		
Are barcod Are all Flas Are all Hex Are all QC	ontainers so e labels on c hpoint sticke Chrome stic stickers attac	anned into sorrect contains attached/ckers attached ched?	ners? ontainer ID # I?	circled?	Initials_A(Yes / No Yes / No /NA Yes / No NA Yes / No NA Yes / No NA			
Completed By: Reviewed	<u>Qa</u>	land	farcia		_ Date & Time		15:26	·~)	
By: Delivered		100			_ Date & Time	·	lilm	122] 122]	

Chain-o	Chain-of-Custody Record	ırd	Laboratory:	ESS		Laboratory Job #	ob # 2060019	19
				Project Information	ation			
		Project Name: Former Tombarell	rello Site		roject Locati	Project Location: Lawrence, Massachusetts	achusetts	Page
<u>.</u>		Project Number: 1802441			roject Manag	Project Manager: Leslie Lombardo)
1 007	400 Unicom Park Drive	Send Report and EDD to:				Preservative		Sample Handling
Wo	Woburn, MA 01801 PH: 781.721.4000	eastregiondata@geiconsultants.com, llombardo@geiconsultants.com,	s.com, n,	I	12H			Samples Field
Œ	FX: 781.721.4073	bfongmurdock@geiconsultants.com	.com				•	Filtered
MCP PRESU	MCP PRESUMPTIVE CERTAINTY REQUIRED	JUIRED (- YES) NO	(ну,			YES NO NA
If Yes, Are MC	If Yes, Are MCP Analytical Methods Required?	luired?		ĄZ	تَدُ لا			Sampled Shipped
Are Drinking \	Are Drinking Water Samples Submitted? If Yes. Have Drinking Water Sampling Requirements Been Met?	equirements Been Met?	YES NO	¥ ×	יאיניניניניניניניניניניניניניניניניניני			YES NO
Lab Sample Number	GEI Sample ID	Collection Date Time	2 6		80à ^Hdd			Sample Specific Remarks
H	South Sp. 0	अरा श्वेष्युन	Argar 2	13FA	1			
2	180911 - FROS	_	Kuma 2	KEPA .	×			
			-					
į								
		7						
	to the first in the second sec	onthe boothoon boiling and out within	Mothor of Mothor	O N		Timeroling Time	Before submi	Refore submitting rush turnaround
standard be n	אונדיין אונדיין, אונדיין אונדיי Standard be met for all analytes whenever possible.	pecilied inell	nost sumgent Method		<u> </u>	(Business days):	samples, you	samples, you must notify the
Relinquished by sen	empler: (signature)	Time:	Received by: (signature)		Normal_X		laboratory to	laboratory to confirm that the TAT
1. Relinquished by: (signature)	(contine)) 0 01 OC	1. GEI Refrigerator Received by: {signature}		10-Day _	7-Day	call be acilieved.	
	erator	7/1/20 1155 2.2		<u>t</u>	5-Day	Additional Requirements/Comments/Remarks:	ents/Comments/	Remarks:
age 15 of 15	ignature)	Date: Time: Received by: (signal	: (signature)	\	MANUAL SE	MANUAL SOMHET EXTRACTION FOR PCBS	/ FOR PCBS	
	ignature)	Time: Receive	d by: (signature)			-		
4. X	In &	711/20 14.86 4.Um	mela yanea					0000000
								6/30/2020

Lot 2



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F0915

PROJECT NARRATIVE

8082A Polychlorin	nated 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

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.

(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

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



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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 F	RTN:					_				
This	form provides	certif	icatio	on for the follo	wing	g data set: 20F0915-01 t	hrough 20F0915-08				
Matı	rices: () Grou	nd W	ater/S	Surface Water		(x) Soil/Sediment	() Drinking Water	() Air	() Other:_		
CA	M Protocol (ch	eck a	ıll tha	at apply below	/):						
()	8260 VOC CAM II A	(470/7471 Hg AM III B	() MassDEP VPH (GC/PID/FID) CAM IV A	(X) 8082 PCB CAM V A	Č	014 Total Cyanide/PAC CAM VI A	() 6860 Pero CAM VIII	
()	8270 SVOC CAM II B	(010 Metals AM III C	() MassDEP VPH (GC/MS) CAM IV C	() 8081 Pesticides CAM V B	` ′	196 Hex Cr CAM VI B	() MassDEF CAM IX A	
()	6010 Metals CAM III A	(020 Metals AM III D	() MassDEP EPH CAM IV B	() 8151 Herbicides CAM V C		xplosives CAM VIII A	() TO-15 VC CAM IX E	
			Affi	irmative respo	onse	s to questions A throu	gh F are required for "P	resumptive	Certainty" sta	tus	
A	-						ribed on the Chain-of-Custo pared/analyzed within met			Yes (X)	No()
В	Were the analy followed?	tical	metho	od(s) and all as	soci	ated QC requirements s	pecified in the selected CA	M protocol	(s)	Yes(X)	No ()
С						lytical response actions standard non-conformat	specified in the selected Caces?	AM protoco	l(s)	$\operatorname{Yes}(\mathbf{X})$?	No ()
D		-					its specified in the CAM V Reporting of Analytical Dat	-	ty	Yes (X)	No ()
Е				•		sch method conducted v ficant modifications).	vithout significant modifica	ntion(s)? (Re	efer	Yes () 1	No ()
				•		omplete analyte list rep				Yes () 1	` /
F					_	performance standard no responses to Questions	on-conformances identified A through E)?	and evaluat	ted	Yes (x) 1	No()
				Responses to	Qu.	estions G, H and I belo	w are required for '''Presu	ımptive Ceri	tainty'' status		
	Data User Note	<u>:</u> Dat	a that	t achieve ''Pres	итр		ified in the selected CAM pay not necessarily meet the and WSC-07-350			$\operatorname{Yes}\left(\mathbf{X}\right)$ 1	No ()*
	-		_			d in the CAM protocol(Yes () 1	No (X)*
I	Were results re	porte	d for	the complete a	ınaly	te list specified in the s	elected CAM protocol(s)?			Yes (X)	No ()*
*All	negative respo	onses	mus	st be addresse	d in	an attached laborator	y narrative.				
I, ti	he undersigned	l, att	est ui	nder the pain	s and	d penalties of perjury	that, based upon my pers	onal inquir	y of those resp	onsible	

accurate and complete.

Signature: ______ Date: July 01, 2020

Printed Name: Laurel Stoddard Position: Laboratory Director

for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief,

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch DE02605
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte Aroclor 1016	Results (MRL) ND (23.8)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u> 400	<u>Analyzed</u> 07/01/20 3:33	Sequence	Batch DF02605
Aroclor 1221	ND (23.8) 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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte Aroclor 1016	Results (MRL) ND (23.4)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u> 400	<u>Analyzed</u> 07/01/20 3:52	Sequence	Batch DF02605
Aroclor 1221	ND (23.4) 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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>		Sequence Batch
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
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		%	SD	30-150			
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		103 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		106 %		30-150				
Surrogate: Tetrachloro-m-xylene		106 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		96 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
-		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F0915

Quality Control Data

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

8082A	Polych	lorinated	Biphenyls	(PCB)
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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									

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Quality

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F0915

Quality Control Data

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

8082A Polychlorinated	Biphenyls	(PCB)
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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	<i>79</i>	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			

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Quality

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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.

F/V

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 Limit of Detection LOD LOO Limit of Quantitation **Detection Limit** DLI/V Initial Volume

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

Calculated Analyte [CALC]

Subcontracted analysis; see attached report SUB

RL Reporting Limit

EDL **Estimated Detection Limit** MF Membrane Filtration MPN Most Probably Number **TNTC** Too numerous to Count CFU Colony Forming Units

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The Microbiology Division of Thielsch Engineering, Inc.



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

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	GEI Consultants, Inc 3	<u>-</u>	ESS Project ID: Date Received:		
			Project Due Date:		
Shipped/Delivered	I Via: ESS Courie	<u>-</u>	Days for Project:	5 Day	
Air bill manifest Air No.:	•	No	6. Does COC match bottles?		Yes
All 140			Is COC complete and corre	ect?	Yes
2. Were custody se	eals present?	No			Vec
			Were samples received int	act?	Yes
3. Is radiation cour		Yes	9. Were labs informed abou	t short holds & rushes?	Yes / No MA
4. Is a Cooler Pres Temp:0.	sent? .2 lced with:lce	Yes	10. Were any analyses recei	ved outside of hold time?	Yes (No)
5. Was COC signe	ed and dated by client?	Yes			
11. Any Subcontra ESS Sample Ana	octing needed? Ye e IDs: allysis: TAT:	s 1/Ng/	12. Were VOAs received? a. Air bubbles in aqueous VO b. Does methanol cover soil		Yes / No Yes / No Yes / No / NA
13. Are the sampl a. If metals preser b. Low Level VOA Sample Receiving	A vials frozen:	Yes / No Date: Date:	Time: Time:	Ву: Ву:	
14. Was there a range with a second acted	need to contact Project Mana eed to contact the client? ed?	ger? Ye: Ye: Date:	5 / No S / No Time:	Ву:	
	tainer Proper Air Bubble D Container Present		Container Type Preserva	hua	yanide and 608 cides)

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

Yes / No / I

Yes / No N Yes / No Yes / No

Completed

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	GE/Consultants, Inc TB	_	ESS Project ID:	20F0915	
-	11		/ Date Received:	6/24/2020	
By:	has -	Date & Time:	6/14/2 17/14		
Reviewed By:		Date & Time:	6/74/20	1757	
Delivered	1011		6hula	1217	
By:					

Chain-of-	Custody Reco	rd			Laborato	эг у:	ESS.				Labo (Lab us	ratory e only)	Job#	DoFe	o 91	6
		Pengala ta S e		NET CHARLES		P	roject Inform	nation		Section and						<u>, </u>
		Project Na	me: Forme	r Tombar	ello Site	2016 (1572) 1494 (414 (414 (414 (414 (414 (414 (414		Project Location: Lawrence, Massachusetts								Page 1 of 1
								Project Manager: Leslie Lombardo						Page _1_ of _1_		
G	FI	Project Nu	mber: 1802	:441				Frojet	er Migh	ayer. I	_65116	المااالما		<u> </u>		
<u> </u>	Consultants	Send Repo	rt and EDD	to:			<u></u>				Pre	servativ	/e 💮			Sample Handling
	nicorn Park Drive ourn, MA 01801	eastregion	data@geico	nsultants.	com,			None					· ·	1		
	781.721.4000		geiconsulta		ınm			ž								Samples Field
FX: 781.721.4073			ock@geicor	ารนาเสกเร.(JUII			samulas (Al Servicios)	at ir sam. Labiting as	michigada. Kanan di	Α	nalysis			etropodasti i Periodraki	Filtered
MCP PRESUM	PTIVE CERTAINTY REC	UIRED -	YES) N	IO.												YES NO NA
If Yes. Are MCF	P Analytical Methods Rec	uired?			(YES)	NQ	NA	1]					Sampled Shipped
-	ater Samples Submitted?				YES	(NO)	<u>N</u> A									With Ice
	rinking Water Sampling R		Reen Met?		YES	NO	(NA)									(YES)NO
ir Yes, Have Dr	mking vvaler sampling K	equilements	Collec	tion		1	1 	8082						1		Sample Specific Remarks
Lab Sample Number	GEI Sample IC		Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	PCB 8					<u> </u>			
1	1802441-EX1-	015	6/23/2020	9:15	Soil	1	BFM	Х	<u> </u>	1	ļ					
2	1802441-EX1-	028	6/23/2020	9:24	Soil	1	BFM	Х	<u> </u>	<u> </u>	<u> </u>				 	
3	1802441-EX1-	03S	6/23/2020	9:34	Soil.	1	BFM	Х	<u></u>	<u></u>	ļ		ļ	ļ	ļ	
4	1802441-EX1-	04B	6/23/2020	9:52	Soil	1	BFM	Х	<u></u>	<u></u>			1	ļ	ļ	
8	1802441-EX1-	05S	6/23/2020	12:15	Soil	1	BFM	Х		<u></u>			ļ	<u> </u>	ļ. —	
6	1802441-EX1-		6/23/2020	12:26	Soil	1	BFM	X	<u> </u>	1	ļ		<u> </u>	<u> </u>	<u> </u>	
7	1802441-EX1-		6/23/2020	15:21	Soil	1	BFM	Х		<u></u>	<u> </u>		↓	ļ	<u> </u>	
8	1802441 - FD-		6/23/2020	12:00	Soil	1	BFM	Х	<u></u>		<u> </u>	<u> </u>		<u> </u>	ļ	
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standard be mi	L : eded: GEI requires that, et for all analytes whene\		ecified meth	od, the m	ost stringer	nt Method	1 MCP		an, mann	Turnar (Busin	3.000	1.1	VA V. W. J. (1935)	sample	s, you	tting rush turnaround must notify the
Relinquished by samp	pler: (signature) by Kwy	Date :	Time:	Received by:	(signature)					al_X		her				confirm that the TAT
1 R - 10 - E	ong-Murdock	6/23/2020	16:30	1. GELR	efrigerator			1	10-Day			Day		can be	achiev	red.
Relinquished by: (sign	nature)	Date :	Time:	Received by:				1	5-Day	/	- 3-D	ау				
	•	6-24-2	1330	2/10	in Di	ad_							remen	ts/Comn	nents/l	Remarks:
2. GEI Refrige: Relinquience by: (sign	nature)	Date:	Time:	Received by:		<u> </u>		Manus	il soxhi	et extrac		·				
3. Pen	Dad	6-24-20	/335	13 Z	18/	ستسر:		77.01101							-	
Retinguished by: (sign	nature)	Date:	Time:	Received by:	(signature)			1								
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6/24/2020



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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.

Lab Number	Sample Name	<u>Matrix</u>	Analysis
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



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F0952

PROJECT NARRATIVE

8082A Polychlor	rinated 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%)
	185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com
	D. LLTE. O. P.

Dependability

Quality

Service



The Microbiology Division of Thielsch Engineering, Inc.



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

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486 ◆ Service



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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 R	TN:				_				
This	s form provides c	ertifi	ication for the follo	wing	data set: 20F0952-01 t	hrough 20F0952-19				
Mat	rices: () Groun	nd W	ater/Surface Water		(X) Soil/Sediment	() Drinking Water	() Air	() Other:_		
CA	M Protocol (che	eck a	ll 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	Č	0014 Total Cyanide/PAC CAM VI A	() 6860 Percl CAM VIII E	
()	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 CAM IX A	APH
()	6010 Metals CAM III A	() 6020 Metals CAM III D	() MassDEP EPH CAM IV B	() 8151 Herbicides CAM V C		xplosives CAM VIII A	() TO-15 VO CAM IX B	
			Affirmative respo	nses	s to questions A throug	gh F are required for ''P	Presumptive	Certainty" sta	itus	
A	-					ibed on the Chain-of-Custo pared/analyzed within met		•	Yes (X) N	lo ()
В	Were the analytifollowed?	ical r	method(s) and all as	socia	ated QC requirements sp	pecified in the selected CA	M protocol((s)	Yes (X) N	lo ()
С	-				ytical response actions standard non-conforman	specified in the selected C ces?	AM protoco	ol(s)	Yes (X) N	lo ()
D		-				ts specified in the CAM V eporting of Analytical Dat	-	ty	Yes (X) N	lo ()
Е			•		ch method conducted w ficant modifications).	rithout significant modifica	ation(s)? (Re	efer	Yes () N	lo ()
			•		omplete analyte list rep				Yes () N	1o()
F				_	erformance standard no responses to Questions	n-conformances identified A through E)?	l and evaluat	ted	Yes (X) N	10()
			Responses to	Que	estions G, H and I below	w are required for '''Prest	umptive Ceri	tainty'' status		
G	Data User Note:	Date	mits at or below all a that achieve "Pres	CAI umpi	M reporting limits specitive Certainty" status ma	fied in the selected CAM j	protocols(s)	?	Yes (X) N	lo ()*
Н					310 CMR 40. 1056 (2)(k) d in the CAM protocol(Yes () N	Jo (X)*
I						elected CAM protocol(s)?			Yes (X) N	` ′
			•	-	an attached laborator	• ' '			-55 (1)	. ()
I, t	he undersigned	, atte	est under the pains	ana	l penalties of perjury t	hat, based upon my pers	onal inquir	y of those resp	oonsible	

for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Printed Name: Laurel Stoddard

Date: July 06, 2020

Position: Laboratory Director

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

◆ Service



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	%	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>75 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				

Service



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		95 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		99 %		30-150				
Surrogate: Tetrachloro-m-xylene		92 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		102 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		110 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		102 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

Service



The Microbiology Division of Thielsch Engineering, Inc.



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)

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		92 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				

Service



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte Aroclor 1016	Results (MRL) ND (1.2)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u> 20	<u>Analyzed</u> 07/02/20 15:42	Sequence	Batch DF02908
Aroclor 1221	ND (1.2) 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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>		Sequence Batch
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
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		%	SD	30-150			
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence Batch
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
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		%	SD	30-150			
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		102 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		93 %		30-150				
Surrogate: Tetrachloro-m-xylene		97 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		99 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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)

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		108 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		95 %		30-150				
Surrogate: Tetrachloro-m-xylene		104 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		110 %		30-150				

Service



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		113 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		98 %		30-150				
Surrogate: Tetrachloro-m-xylene		98 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		108 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		108 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		98 %		30-150				
Surrogate: Tetrachloro-m-xylene		98 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		110 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte Aroclor 1016	Results (MRL) ND (3.2)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u> 50	<u>Analyzed</u> 07/02/20 13:25	Sequence	Batch 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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F0952

Quality Control Data

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

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			
.cs									
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			
Commander Describing the cond	0.0272		mg/kg wet	0.02500	109	30-150			
Surrogate: Decachlorobiphenyl	0.0248		mg/kg wet	0.02500	99	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0235		mg/kg wet	0.02500	94	<i>30-150</i>			
Surrogate: Tetrachloro-m-xylene	0.0255		mg/kg wet	0.02500	102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]			3, 3						
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000	106	40-140	2	30	
Aroclor 1010 Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000	100	40-140	1	30	
Aroclor 1016 [2C]	0.5	0.05		0.5000	101	40-140	3	30	
Arocior 1260 Arocior 1260 [2C]	0.5	0.05	mg/kg wet mg/kg wet	0.5000	99	40-140 40-140	3	30	
1200 [2C]	0.5	0.05	mg/kg wet	0.5000	בנ	TU-140	J	JU	
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			

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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.

NDAnalyte 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 Limit of Quantitation LOQ **Detection Limit** DL Initial Volume I/V 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

Calculated Analyte [CALC]

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

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Quality

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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 F	Project ID:	20F0952				
Shinned/F	elivered Via		ESS Courier			Received: Due Date:	6/25/2020 7/2/2020	
Onippedit	ciivered vid.		<u>Loo oounor</u>			or Project:		
	nanifest prese			No	6. Does COC	match bottles?		Yes
				Na	7. Is COC com	plete and correct?		Yes
2. Were cu	ıstody seals p	oresent?	L	No No	8. Were samp	les received intact?	,	Yes
3. Is radiat	ion count <10	00 CPM?		Yes	9 Word labe	informed about sh	ort holds & rushes?	Yes / No / NA
	oler Present? : 0.3	lced with:	lce	Yes			outside of hold time?	Yes (No
5. Was Co	OC signed and	d dated by cl	ient?	Yes	-			
	bcontracting (Sample IDs: Analysis: TAT:		Yes	No		As received? s in aqueous VOAs? ano! cover soil com		Yes / No Yes / No Yes / No (NA
a. If metal	e samples pro s preserved u vel VOA vials	pon receipt:	ved?	(Yes) No Date: Date:	Time:Time:		By:	
Sample Re	eceiving Notes	s:						
a. Was the	ere a need to	contact the	oject Manager client?	Date: _	Yes / No Yes / No Time:		Ву:	
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cy-	anide and 608
1	58838	Yes	N/A	Yes	4 oz. Jar	NP		
2			INDA	163	7 02. 0UI	INC		
	58839	Yes	N/A	Yes	4 oz. Jar	NP		
3	58839 58840							
3 4		Yes	N/A	Yes	4 oz. Jar	NP		
	58840	Yes Yes	N/A N/A	Yes Yes	4 oz. Jar 4 oz. Jar	NP NP		
4	58840 58841	Yes Yes Yes	N/A N/A N /A	Yes Yes Yes	4 oz. Jar 4 oz. Jar 4 oz. Jar	N P N P NP		
4 5	58840 58841 58842	Yes Yes Yes Yes	N/A N/A N/A N/A	Yes Yes Yes Yes	4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar	NP NP NP NP		
4 5 6	58840 58841 58842 58843	Yes Yes Yes Yes Yes	n/a n/a n/a n/a n/a	Yes Yes Yes Yes Yes	4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar	NP NP NP NP NP		
4 5 6 7	58840 58841 58842 58843 58844	Yes Yes Yes Yes Yes Yes Yes	N/A N/A N/A N/A N/A	Yes Yes Yes Yes Yes	4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar	NP NP NP NP NP		
4 5 6 7 8	58840 58841 58842 58843 58844 58845	Yes Yes Yes Yes Yes Yes Yes Yes	N/A N/A N/A N/A N/A N/A	Yes Yes Yes Yes Yes Yes Yes	4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar 4 oz. Jar	NP NP NP NP NP NP		
4 5 6 7 8 9	58840 58841 58842 58843 58844 58845 58846	Yes Yes Yes Yes Yes Yes Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A	Yes Yes Yes Yes Yes Yes Yes Yes	4 oz. Jar 4 oz. Jar	NP NP NP NP NP NP NP		
4 5 6 7 8 9	58840 58841 58842 58843 58844 58845 58846 58847	Yes	N/A N/A N/A N/A N/A N/A N/A	Yes	4 oz. Jar 4 oz. Jar	NP NP NP NP NP NP NP		
4 5 6 7 8 9 10	58840 58841 58842 58843 58844 58845 58846 58847 58848	Yes	N/A N/A N/A N/A N/A N/A N/A N/A	Yes	4 oz. Jar 4 oz. Jar	NP NP NP NP NP NP NP NP		
4 5 6 7 8 9 10 11	58840 58841 58842 58843 58844 58845 58846 58847 58848 58849	Yes	N/A N/A N/A N/A N/A N/A N/A N/A	Yes	4 oz. Jar 4 oz. Jar	NP		
4 5 6 7 8 9 10 11 12	58840 58841 58842 58843 58844 58845 58846 58847 58848 58849 58850	Yes	N/A N/A N/A N/A N/A N/A N/A N/A N/A	Yes	4 oz. Jar	NP		
4 5 6 7 8 9 10 11 12 13 14	58840 58841 58842 58843 58844 58845 58846 58847 58848 58849 58850 58851	Yes	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Yes	4 oz. Jar	NP		

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	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 col Are barcode Are all Flash Are all QC st Are VOA stic	ntainers sca labels on co point sticker: Chrome stick tickers attach	rrect contains attached/c ers attached ers attached ned?	ners? container ID a d?		Yes / I Yes / I Yes / I	NO (NA			
Completed By: Reviewed By: Delivered	O.	B			Date & Time:	025/20	17Y	<u> </u>	

Chain-o	f-Custody Red		Laborat	ory:	Laboratory Job # (Lab use only)				2 09	8						
						F	roject Infor	mation					. 14 S.Y	7		
		Project Na	me: Forme	r Tomba	rello Site			Projec	t Loca	ation: l	Lawre	nce, Ma	ssach	usetts		Page _1_ of _2_
_		Project Nu	mher: 180	2441				Projec	t Man	ager: I	Leslie	Lomba	rdo			' ugo _ '_ o' _ - _
l (-	Consultants	Flojectiva	iliber. 100	L-T-1	_											
400 11	Inicorn Park Drive	Send Repo	rt and EDD	to:		• •			· · · · · · · · · · · · · · · · · · ·		Pre	servativ	/e	6	· · · · · ·	Sample Handling
	burn, MA 01801	eastregiond						None								
	I: 781.721.4000	llombardo@ bfongmurdo						Ž		_			<u> </u>	<u> </u>	<u> </u>	Samples Field
FX	(: 781.721,4073	bioliginarae		ngartanto							Α	nalysis		<u> </u>		Filtered
MCP PRESU	MPTIVE CERTAINTY R	REQUIRED (YES)	NO												YES NO NA
If Yes. Are MO	CP Analytical Methods F	Required?	·	(YES)	NQ	NA	1 1								Sampled Shipped	
	Vater Samples Submitte				YES	(NO)	NA			'						With Ice
_	Drinking Water Sampling		Reen Met	>	YES	NO	(NA)							1		(YES)NO
	I I I I I I I I I I I I I I I I I I I	g (Vedailonionia	Collec		1	1		8082								Sample Specific Remarks
Lab Sample Number	GEI Sample	ı ID	Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	РСВ 8								
	1802441-EX	1-08S	6/24/2020	11:11	Soil	1	BFM	Х								
7	1802441-EX	1-098	6/24/2020	11:32	Soil	1	BFM	Х		•						
3	1802441-EX	1-108	6/24/2020	11:40	Soil	1	BFM	Х				<u> </u>				
U	1802441-EX	1-11S	6/24/2020	11:52	Soil	1	BFM	Х								
3	1802441-EX	1-128	6/24/2020	12:01	Soil	1	BFM	X								
6	1802441-EX	1-13B	6/24/2020	12:12	Soil	1	BFM	Х						<u> </u>		
7	1802441-EX	1-14B	6/24/2020	12:24	Soil	1	BFM	Х	_					_		
8	1802441-EX	1-15B	6/24/2020	12:33	Soil	1	BFM	X								
9	1802441-EX	1-16B	6/24/2020	12:44	Soil	1	BFM	Х								
											ļ					
															<u> </u>	
															<u> </u>	
	eeded: GEI requires the		ecified met	hod, the i	nost stringe	ent Metho	d 1 MCP			urnard						itting rush turnaround
Standard be n	net for all analytes wher	Date:	Time:	Received by	(signature)		-			Busine						must notify the confirm that the TAT
							1_X_		ther		can be					
Balinquished by: (signature)	onature)	6/24/2020 Date :,	17:15 Time:	1. GELR Received by	efrigerator			- 1	•			Day				
ſ				1	in al	12	CC			Addit		ay	remen	⊒ ts/Comi	ments	/Remarks:
2. GEI Refrigerator Relinquished by: (signature) Date: Time: Received by					(signature)	(- /		-				rtequi	3111611			,
					04			Manua	soxhle	t extract	tion.					<u> </u>
3 According to the Control of the Co					Visionature)			╅								
- A		6/25/20		14	A			<u> </u>								
4. 0 V	~	6730,70	1	4.	- W											

Chain-of	-Custody Reco			Laborate	ory:	Laboratory Job # (Lab use only)				bEC FR	2					
			. * . *j.; *			P	roject Inforn	nation					26	0	- 4	
		Project Nam	ne: Forme	r Tombar	ello Site					ation: L	_awren	nce, Ma	ssachi	usetts		Page 2 of 2
C		Project Num	1ber: 1802	<u>2441</u>				Projec	ct Man	ager: L	_eslie l	Lombar	do			Page _2_ of _2_
U	Consultants									s - 1 1 7 0	Dasa	-14-AI	- Carlotte - Carlotte		July 10 1	Sample Handling
	nicorn Park Drive	Send Report eastregionda			com				1 1		-168	servativ	<u>ਓ</u>	nga gatat k	* i	Cample nationing
	ourn, MA 01801	llombardo@g					ŀ	None			!					
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MCP PRESUM	IPTIVE CERTAINTY RE	QUIRED (YES)	NO				l i				l				YES NO NA
f Yes, Are MCI	P Analytical Methods Re	quired?			(YES)	NQ	NA]				' 				Sampled Shipped
Are Drinking W	ater Samples Submitted	·?			YES	(NO)	NA					' 				With Ice
_	rinking Water Sampling F		3een Met?		YE\$	NO	(NA)	. .				' 				(YES)NO
Lab Sample	<u> </u>		Collec		-	No. of	Sampler(s)	8082			!	' 				Sample Specific Remarks
Number	GEI Sample ID)	Date	Time	Matrix	Bottles	Initials	PCB				:				
10	1802441-EX2-0	01S 6	6/24/2020	13:51	Soil	1	BFM	Х								
11	1802441-EX2-	02S 6	6/24/2020	14:02	Soil	1	BFM	Х							ļ	
12	1802441-EX2-	03S 6	6/24/2020	14:11	Soil	1	BFM	Х								
15	1802441-EX2-	048 6	6/24/2020	14:20	Soil	1	BFM	Х							<u> </u>	
14	1802441-EX2-	_	6/24/2020	14:30	Soil	1	BFM	Х							1	
K	1802441-EX2-	06B 6	6/24/2020	14:48	Soil	1	BFM	Х								
16	1802441-EX2-		6/24/2020	14:58	Soil	1	BFM	Х								
η	1802441-EX2-	08B 6	6/24/2020	15:06	Soil	1	BFM	Х							<u> </u>	
19	1802441-EX2-	09B 6	6/24/2020	15:16	Soil	1	BFM	Х								
19	1802441-FD-	02 6	6/24/2020	12:00	Soil	1	BFM	Х								
]					
														ļ		
	eded: GEI requires that, et for all analytes whene		cified meth	nod, the m	ost stringe	nt Method	11 MCP			urnaro Busine	4 1			sample	s, you	ting rush turnaround must notify the
Relinquished by samp		ime:	Received by: (signature)				Normal	- <u></u> -	Oti	her				confirm that the TAT	
1.		17:15	1. GEI Re	frigerator			li e				Day		can be	achiev	red.	
				Received by: (77		1	5-Day		3-Da	ау		_		
2. GEI Refrigerator 6/25/20 10° 25° 2. C				2. 00	rd 7	toffer	(C)			Addit	ional	Requir	emen	ts/Comr	nents/	Remarks:
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3/ jad	fastic	6/25/00	10:25	3.	# 12											
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4. Ja	an	16/25/20	15'58	4. \	Th	-										



The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



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> 20F1012-01

Sample Name 1802441-EX2-10B Matrix Soil Analysis 8082A



The Microbiology Division of Thielsch Engineering, Inc.



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

185 Frances Avenue, Cranston, RI 02910-2211

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The Microbiology Division of Thielsch Engineering, Inc.



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.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1012

MassDEP Analytical Protocol Certification Form

	1	MADEP RT	ΓN:					_					
Thi	s form	provides co	ertif	ica	ation for the follow	ving	data set: 20F1012-01						
Ma	trices:	() Groun	d W	ate	er/Surface Water		(X) Soil/Sediment	() Drinking Water	() Air	() Other:_			
CA	M Pro	otocol (che	ck a	11	that apply below):							
()	8260 CAM		()	7470/7471 Hg CAM III B	() MassDEP VPH (GC/PID/FID) CAM IV A	(X) 8082 PCB CAM V A	Č	0014 Total Cyanide/PAC CAM VI A	` /) Perchloi I VIII B	rate
()	8270 CAM	SVOC II B	()	7010 Metals CAM III C	() MassDEP VPH (GC/MS) CAM IV C	() 8081 Pesticides CAM V B	() 7	7196 Hex Cr CAM VI B	` /	sDEP AP I IX A	Н
()	6010 CAM	Metals III A	()	6020 Metals CAM III D	() MassDEP EPH CAM IV B	() 8151 Herbicides CAM V C	. ,	xplosives CAM VIII A	() TO-1 CAN	5 VOC 1 IX B	
				A	Affirmative respo	nses	s to questions A throug	h F are required for ''Pı	resumptive	Certainty" sta	itus		
A		-						bed on the Chain-of-Custo pared/analyzed within metl		•	Yes	(X) No ()
В	Were	-	cal 1	ne	ethod(s) and all ass	socia	ated QC requirements sp	pecified in the selected CA	M protocol((s)	Yes	(X) No ()
С		-					ytical response actions standard non-conforman	specified in the selected Caces?	AM protoco	ol(s)	Yes	(X) No ()
D	Does	the laborat	ory	rej	port comply with a	all th	ne reporting requirement	ts specified in the CAM Vi eporting of Analytical Dat		ty	Yes	(X) No ()
Е	VPH.	EPH, APH	I an	d I	ГО-15 only: a. Wa	s ea	•	ithout significant modifica		efer	Yes	() No ()
					` /	_	omplete analyte list repo	orted for each method?			Yes	() No ()
F						_	erformance standard not responses to Questions A	n-conformances identified A through E)?	and evaluat	ted	Yes	(X) No ()
								v are required for '''Presu					
G	<u>Data</u>	User Note:	Date	a t	hat achieve ''Presi	ımpt		fied in the selected CAM p y not necessarily meet the a and WSC-07-350.			Yes	(X) No ()*
Н	_			_			d in the CAM protocol(s				Yes	(X) No ()*
I		-			-	-	-	lected CAM protocol(s)?			Yes	(X) No ()*
*Al	ll nega	tive respoi	nses	m	ust be addressed	in d	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: ______ Date: July 06, 2020
Printed Name: Laurel Stoddard Position: Laboratory Director

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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

Surrogate: Tetrachloro-m-xylene [2C]

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)

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
-	•	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		101 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		98 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				

95 %

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30-150



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20F1012

Quality Control Data

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

8082A Polychlorinated	l 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			
Currentes Describing and	0.0267		mg/kg wet	0.02500	107	30-150			
Surrogate: Decachlorobiphenyl	0.0277		mg/kg wet	0.02500	111	30-150			
Surrogate: Decachlorobiphenyl [2C] 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			3, 3						
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	<i>30-150</i>			

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The Microbiology Division of Thielsch Engineering, Inc.



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

,	1 1
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.

Range result excludes concentrations of target analytes eluting in that range.
 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

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The Microbiology Division of Thielsch Engineering, Inc.



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

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ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc TB	ESS Project ID: 20F1012	_
Shipped/Delivered Via: ESS Courier	Date Received: 6/26/2020 Project Due Date: 7/3/2020	_
Shipped/Delivered via	Days for Project: 5 Day	-
Air bill manifest present? No NA	6. Does COC match bottles?	Yes
Air No.:	7. Is COC complete and correct?	Yes
Were custody seals present? No	8. Were samples received intact?	Yes
3. Is radiation count <100 CPM? Yes	9. Were labs informed about short holds & rushes?	Yes / No (NA
4. Is a Cooler Present? Yes Temp: 3.6 Iced with: Ice	10. Were any analyses received outside of hold time?	Yes No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes /(No) Yes / No Yes / No /NA
13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: Ves / No Date: Date:	Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? Date:	Yes / No Yes / No Time: By:	
Sample Container Proper Air Bubbles Sufficient Number ID Container Present Volume	Container Type Preservative Record pH (Cyar	
1 59599 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 // Yes / No / NA	
Completed By: Roviewed	Date & Time: 6/26/20 17:31	
Reviewed By:	Date & Time: 0 16 70 1777	_
Delivered By:	67e w 1757	

Chain-of	-Custody Rec	ord			Laborato	ory:	ESS				Labo i (Lab use	ratory only)	Job#	20F	101	2
	-					P	roject Inforr	nation				- //				
		Project Nar	ne: Forme	r Tombar	ello Site	· · · · · · ·		Project Location: Lawrence, Massachusetts				Page _1_ of _1_				
G	E	Project Nui	nber: 1802	2441	Project Manager:					ager: L	eslie L	ombar	ob			
_		Send Repor	t and EDD	to:				 			Pres	ervativ				Sample Handling
=	nicorn Park Drive	eastregiond			com,			ချွ								
Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073 PH: 781.721.4073 PH: 781.721.4073			ants.com,				None								Samples Field	
			nsultants.d	com					1	An	alysis		I		Filtered	
MCP PRESUMPTIVE CERTAINTY REQUIRED (YES) NO																YES NO NA
If Yes Are MC	P Analytical Methods F	Required?			(YES)	NQ	NA									Sampled Shipped
	/ater Samples Submitte				YES	(NO)	NA									With Ice
_			M. 42		YES	NO				1						(YES) NO
It Yes, Have D	rinking Water Sampling	g Requirements i		-41	I ES	NO	(NA)	8082								Sample Specific Remarks
Lab Sample Number	GEI Sampl	e ID	Colle- Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	PCB 8(
1	1802441-Ex2-10	OR.	6/25/20	0714	SOIL	-	BFM	X								
	122	<u> </u>														
	,															
		<u></u>			-											
					 			1								
					-	<u> </u>			 							+ ··
					<u> </u>	<u> </u>		 		-		 -			 -	
	<u> </u>				 	<u> </u>		1						 		
				<u> </u>	 			+-								
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								-								
	<u> </u>	i Matalana	- !£:l 4l-			t Mothad	1 MCD	+	т	urnara	und Ti	me	<u> </u>	Refore	submit	ting rush turnaround
	eeded: GEI requires the et for all analytes wher	never possible.				t ivieti iou	TIVICE	Turnaround Time Before submitting rush turnaround (Business days): samples, you must notify the						must notify the		
Relinquished by sam	pler: (signature)			Received by:	(signature)			1	Normal	_X	Oth	er	_			confirm that the TAT
1		6/25/20	1614		efrigerator			_	10-Day		7-0	ay	_	can be	acniev	ea.
Reimquished by: (sig	nature)	Date :	Time:	Received by:	(signature)	1			5-Day		3-Da			_		
2. GEI Refrige	rator	6-26-20	1350	2.	en Da	ed _				Addit	ional	Requir	ement	s/Comm	ents/l	Remarks:
Relinquished by: (sig		Date :	Time:	Received by:	(signature)	2 K		Manua	l soxhlet	extract	ion.					
3. /m	Dad	6-26-26	1355	3. 7	-WG											· · · · · · · · · · · · · · · · · · ·
Relinquished by: (sig		Date :	Time:	Received by:												
4. 2	2	6/26/20	17:22	4//ml	bu Ho	rua					·					

Work-Zone PCB Sample



Attn:

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

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.

1802441-W21

200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (856) 303-2500 / (856) 858-4571

http://www.EMSL.com

EnvChemistry2@emsl.com

(781) 721-4098 Phone: (781) 721-4073 Fax: Received: 06/25/20 9:00 AM

6/24/2020

EMSL Order:

CustomerID:

CustomerPO:

Lab ID:

RS

RS

RS

RS

6/26/2020

6/26/2020

6/26/2020

6/26/2020

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EΗ

6/25/2020

6/25/2020

6/25/2020

6/25/2020

ProjectID:

012006391

012006391-0001

GEIC80

Attn: **Leslie Lombardo GEI Consultants, Inc.** 400 Unicorn Park Drive

Woburn, MA 01801

Project: Former Tombarello

Client Sample Description

Analytical Results

Collected:

	Lawrence					
Method	Parameter	Result	Result RL Units		Analysis Date & Analys	st
GC-SVOA						
5503 Modified	Aroclor-1016	ND 0.00	026 mg/m³	6/25/2020 RS	6/26/2020	EH
5503 Modified	Aroclor-1221	ND 0.00	026 mg/m³	6/25/2020 RS	6/26/2020	EH
5503 Modified	Aroclor-1232	ND 0.00	026 mg/m³	6/25/2020 RS	6/26/2020	EH
5503 Modified	Aroclor-1242	ND 0.00	026 mg/m³	6/25/2020 RS	6/26/2020	EH
5503 Modified	Aroclor-1248	ND 0.00	026 mg/m³	6/25/2020 RS	6/26/2020	EH

ND

ND

ND

ND

0.00026

0.00026

0.00026 mg/m³

0.00026 mg/m³

mg/m³

mg/m³

Definitions:

5503 Modified 5503 Modified

5503 Modified

5503 Modified

MDL - method detection limit

Aroclor-1254

Aroclor-1260

Aroclor-1262

Aroclor-1268

RL - Reporting Limit (Analytical)

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

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)



BWSC 112 WM Profile No. 497552NH

Release Tracking Number

recrease	Tracking Trainioci		
3	-	18126	

BILL OF LADING (pursuant to 310 CMR 40.0030)

. Release Name/Location Aid: TOMBARELLO AND SON	
207 MARSTON ST	
. City/Town: LAWRENCE	4. Zip Code: 018410000
5. Check here if the disposal site that is the source of the a. Tier I b. Tier ID c. Tier II	e release is Tier Classified. Check the current Tier Classification Category
. THIS FORM IS BEING USED TO: (check one: B1-B4):	
▼ 1. Submit a Bill of Lading (BOL) to transport Remediation Response Actions associated with this BOL (check all the second	
a. Immediate Response Action (IRA)	e. Comprehensive Response Actions
▼ b. Release Abatement Measure (RAM)	f. Limited Removal Action (LRA): (must be
C. Downgradient Property Status (DPS)	retained pursuant to 310 CMR 40.0034(6); can't be submitted via eDEP)
d. Utility Release Abatement Measure (URAM)	g. Other
 3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the 	he Bill of Lading is Void. (Sections C, D, E, and F are not required)
3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the Date Bill of Lading submitted to the Department:	Receiving Facility (Sections C, F and J are not required):
3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the Date Bill of Lading submitted to the Department:	Receiving Facility (Sections C, F and J are not required): the Bill of Lading is Void. (Sections C, D, E, and F are not required) b. eDEP Transaction ID:
3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the Date Bill of Lading submitted to the Department:	Receiving Facility (Sections C, F and J are not required): the Bill of Lading is Void. (Sections C, D, E, and F are not required) b. eDEP Transaction ID: mm/dd/yyyy)
3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the Date Bill of Lading submitted to the Department: (r) 6. Period of Generation Associated with this Bill of Lading (All sections of this transmittal form	the Bill of Lading is Void. (Sections C, D, E, and F are not required) b. eDEP Transaction ID: mm/dd/yyyy) 6/29/2020 to 8/31/2020
3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the Date Bill of Lading submitted to the Department: (r) 6. Period of Generation Associated with this Bill of Lading (All sections of this transmittal form	b. eDEP Transaction ID: Main
3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the Date Bill of Lading submitted to the Department: (r) 6. Period of Generation Associated with this Bill of Lading (All sections of this transmittal form The Bill of Lading is not considered complete until the Annual Complete Co	b. eDEP Transaction ID: Main
3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the Action of Lading submitted to the Department: (r) 6. Period of Generation Associated with this Bill of Lading (All sections of this transmittal form The Bill of Lading is not considered complete until the Action of Complete Unit of Lading is not Considered Complete Unit of Lading is DESCRIPTION OF WASTE AND WASTE SOURCE:	b. eDEP Transaction ID: Main
3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the Action of Lading submitted to the Department: (r) 6. Period of Generation Associated with this Bill of Lading (All sections of this transmittal form The Bill of Lading is not considered complete until the Action of Lading is not considered complete until the Action of Waste And Waste Source: Contaminated Media/Debris (check all that apply): a. Soil b. Groundwater c. Surface Water	b. eDEP Transaction ID: Main
3. Submit an Attestation of Completion of Shipment to a R 4. Certify that Remediation Waste Was Not Shipped, and the Action of Lading submitted to the Department: (r) 6. Period of Generation Associated with this Bill of Lading (All sections of this transmittal form The Bill of Lading is not considered complete until the Action of Lading is not considered complete until the Action of Waste And Waste Source: Contaminated Media/Debris (check all that apply): a. Soil b. Groundwater c. Surface Water	b. eDEP Transaction ID: b. eDEP Transaction ID:

Revised: 9/3/2013 Page 1 of 5



WM Profile No. 497552NH **BWSC 112**

Release	Tracking	Numbe

BILL OF LADING (pursuant to 310 CMR 40.0030)

		terring i terrine e
3	-	18126

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. Y	ds.	Gallons
5. Contaminant Source (check one):				
a. Transportation Accident	b. Undergroun	nd Storage Tank	▼ c. I	Brownfields Redevelopment
d. Other:				
6. Type of Contaminant (check all that	apply):			
a. Gasoline b. Diesel F	uel c. #2 Fuel (Oil 🔲 d. #4 Fue	el Oil 🛭	e. #6 Fuel Oil f. Jet Fuel
g. Waste Oil h. Kerosene	i. Chlorinated So	olvents 🔽 j. Urban	Fill	k. Other:
7. Constituents of Concern (check all t	hat apply):			
a. As b. Cd	c. Cr d.	Pb	g 🔽	f. EPH/TPH 🔲 g. VPH
₩ h. PCBs i. VOCs	j. SVOCs 🔲 k.	Other:		
8. If applicable, check the box for the l	Reportable Concentrat	ion Category of the	site:	
a. RCS-1 b. RCS-2	c. RCGW-1	d. RCGW	7-2	
9. Remediation Waste Characterization	Documentation (chec	ck at least one):		
a. Site History Information	▼ b. Sampling Ana	alytical Methods and	d Procedui	res c. Laboratory Data
d. Field Screening Data	e. Characterization	n Documentation pr	eviously s	ubmitted to the Department
i. Date submitted:	ii. Type of Docum	nentation:		
·	d/yyyy)	MATION		
D. TRANSPORTER OR COMMON				
1. Transporter/Common Carrier Name:	W.L. FRENCH			
2. Contact First Name: DAN		3. Las	st Name:	WALSH
4. Street: 14 STERLING ROAD			5. Title:	SR. ENVIRONMENTAL PROJECT MANAGE
6. City/Town: BILLERICA		7. St	tate: MA	8. Zip Code: 018620000
9. Telephone: 9786002106	10. Ext:	11. E	Email: d	walsh@wlfrench.com

Revised: 9/3/2013 Page 2 of 5



WM Profile No. 497552NH BWSC 112

BILL OF LADING (pursuant to 310 CMR 40.0030)

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

Release Tracking Number

3 - 18126

Ι

1. Operator/Facil	lity Name: WASTE MAN	AGEMENT OF NH (TRE	E)				
2. Contact First 1	Name: ELLEN		3. Last Nan	ne: BELL	.IO		
4. Street: 90 RG	OCHESTER NECK ROAD			5. Title:	SR. MGR. WAS	STE APPROVALS	S
6. City/Town:	ROCHESTER			7. State:	NH	8. Zip Code:	038397065
9. Telephone:	8009634776	10. Ext:		11. Email:	EBELLIO@W	M.COM	
12. Type of facil	ity: (check one)						
a. Temporary	y Storage	i. Period of Tempora	ry Storage			to	
ii. Reason fo	r Temporary Storage:			(mr	m/dd/yyyy)		(mm/dd/yyyy)
□b. Asphal	It Batch/Hot Mix c.	Landfill/Disposal		d. Landfill/	Structural Fill	□e. L	andfill/Daily Cover
f. Asphalt	t Batch/Cold Mix	Thermal Processing	□h. In	cinerator	i. Other:		
13. Division of I	Hazardous Waste/Class A	Permit Number:					
14. Division of S	Solid Waste Permit Number	r: DES-SW-SP-95-	001				
15. EPA Identific	cation Number:						
F. LSP SIGNATU	URE AND STAMP:						
309 CMR 4.02(1 to the best of my (are) the subject 40.0000, and such I am aware that	ecompanying this submittate, (ii) the applicable provising whowledge, information of this submittal for accept facility is permitted to a significant penalties may represent a inaccurate or materially in the submittal significant penalties.	and belief, the assess ptance at the facility accept Remediation W	2(2) and (3), sment action identified in Vaste having	and 309 CM n(s) undert this submit the character	MR 4.03(2), and aken to characteristic description of the comply with the comply with the complete of the comp	d (iii) the provis terize the Remo th applicable p ibed in this sul	sions of 309 CMR 4.03(3) ediation Waste which is provisions of 310 CMR bmittal.
1. LSP#:	9719						
2. First Name:	ILEENS		3. Last N	lame: G	LADSTONE		
4. Telephone:	7817214012	5. Ext:		6. Email:	igladstone@	geiconsultants.c	om:
7. Signature:	ILEEN S GLADSTONE			<u>_</u>	9. LSP Stamp:		
8. Date:	6/23/2020 (mm/dd/yyyy)				1_1	Electro Seal	

Revised: 9/3/2013 Page 3 of 5



$\begin{tabular}{ll} \textbf{Massachusetts Department of Environmental Protection} \\ \textbf{Bureau of Waste Site Cleanup} \end{tabular}$

WM Profile No. 497552NH **BWSC 112**

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tra	acking Number
3 -	18126

G. PERSC	ON SUBMITTIN	NG BILL OF LADIN	iG:		
1. Check a	all that apply:	a. change in cont	act name	nge of addre	ss c. change in the person undertaking response actions
2. Name o	of Organization:	CITY OF LAWRENCE			
3. Contact	t First Name:	PEDRO	4. Last Na	ame: SOTO	0
5. Street:	12 METHUEN STF	REET		6. Title:	PLANNING DIRECTOR
7. City/To	wn: LAWRENCE			8. State:	MA 9. Zip Code: 018400000
10. Teleph	none: 978620350	01	11. Ext:	- 12. Email -	psoto@cityoflawrence.com
H. RELAT	TIONSHIP TO	SITE OF PERSON S	SUBMITTING BILL O	F LADING	: Check here to change relationship
□ 1. RP or	or PRP	a. Owner	☐ b. Operator	C. G	enerator
□e. C	Other RP or PRP	Specify:			
2. Fidu	iciary, Secured Le	nder or Municipality w	vith Exempt Status (as de	fined by M.G	L. c. 21E, s. 2)
☐ 3. Age	ency or Public Uti	ility on a Right of Way	(as defined by M.G.L. c.	21E, s. 5(j))	
4. An	y Other Person U	Indertaking Response	Actions: Specify	Relationship	:
I. REQUII	RED ATTACHN	MENT AND SUBMIT	TTALS:		
					e (were) subject to any order(s), permit(s) and/or ent identifying the applicable provisions thereof.
	eck here if any no C.eDEP@state.m		on provided on this form	is incorrect	, e.g. Release Address/Location Aid. Send corrections to
3. Che	eck here to certify	y that the LSP Opinion	containing the material	facts, data, a	nd other information is attached.
J. CERTII	FICATION OF	PERSON SUBMITT	TING BILL OF LADIN	NG:	
	PRO SOTO				alties or perjury (i) that I have personally examined and
that, in th attes am/i	, based on my inquisition in the station on behalf is aware that there	uiry of those individu the best of my know of the entity legally r	als immediately respons ledge and belief, true, ac responsible for this sub- lties, including, but not	ible for obtain curate and curate in I/the p	d all documents accompanying this transmittal form, (ii) ining the information, the material information contained omplete, and (iii) that I am fully authorized to make this person or entity on whose behalf this submittal is made ossible fines and imprisonment, for willfully submitting
2. By:	PEDRO SOTO			3. Title:	PLANNING DIRECTOR
4. For:	CITY OF LAWREN	NCE		5. Date:	6/22/2020
	(Name	of person or entity rec	orded in Section G)	_	(mm/dd/vvvv)

Revised: 9/3/2013 Page 4 of 5



$\begin{tabular}{ll} \textbf{Massachusetts Department of Environmental Protection} \\ \textbf{Bureau of Waste Site Cleanup} \end{tabular}$

WM Profile No. 497552NH **BWSC 112**

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

3 - 18126

J. CERTIFICATION OF PEI	RSON SUBMITTING BILL (OF LADING (cont.):		
6. Check here if the address	s of the person providing certific	eation is different from address	s recorded in Section G.	
7. Street:				
8. City/Town:		9. State:	10. Zip Code:	
11. Telephone:	12. Ext:	13. Email:		
Date Stamp (MassDEP USE ONL	<u></u>			
Received by DEP on 6/23/	2020 10:17:34 AM			

Revised: 9/3/2013 Page 5 of 5

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.



BWSC 112

Release Tracking Number

3	-	18126	

BILL OF LADING (pursuant to 310 CMR 40.0030)

A. LOCATION OF SITE OR DISPOSAL SITE WHERE H	REMEDIATION WASTE WAS GENERATED:
1. Release Name/Location Aid: TOMBARELLO AND SON	NS 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 a. Tier I b. Tier ID c. Tier II	ne release is Tier Classified. Check the current Tier Classification Category.
B. THIS FORM IS BEING USED TO: (check one: B1-B4):	
Submit a Bill of Lading (BOL) to transport Remediation 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
c. Downgradient Property Status (DPS)	submitted via eDEP)
d. Utility Release Abatement Measure (URAM)	g. Other
5. Date Bill of Lading submitted to the Department: 6/23/	
6. Period of Generation Associated with this Bill of Lading	$\frac{6/30/2020}{(\text{mm/dd/yyyy})} \text{to } \frac{7/2/2020}{(\text{mm/dd/yyyy})}$
`	n must be filled out unless otherwise noted above) 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 Wat	ter d. Sediment e. Vegetation or Organic Debris
☐ f. Demolition/Construction Waste ☐ g. Inorganic A	absorbent Materials h. Other:
2. Uncontainerized Waste (check all that apply):	
a. Inorganic Absorbent Materials b. Other:	

Revised: 9/3/2013 Page 1 of 5



$\begin{tabular}{ll} \textbf{Massachusetts Department of Environmental Protection} \\ \textbf{Bureau of Waste Site Cleanup} \end{tabular}$

BWSC 112

Release Tracking Number

3 - 18126

BILL OF LADING (pursuant to 310 CMR 40.0030)

. Containerized Waste (check all that apply):
a. Tank Bottoms/Sludges
e. Other:
Estimated Quantity: Tons Cu. Yds. Gallons
. Contaminant Source (check one):
a. Transportation Accident b. Underground Storage Tank c. Brownfields Redevelopment
d. Other:
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:
. 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:
. 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
. 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)
. TRANSPORTER OR COMMON CARRIER INFORMATION:
. Transporter/Common Carrier Name: W.L. FRENCH EXCAVATING CORP.
. Contact First Name: DAN 3. Last Name: WALSH
Street: 14 STERLING ROAD 5. Title: SR. ENVIRONMENTAL PROJECT MGR
City/Town: N. BILLERICA 7. State: MA 8. Zip Code: 018620000
Telephone: 9786002106 10. Ext: 11. Email: dwalsh@french.com

Revised: 9/3/2013 Page 2 of 5



$\begin{tabular}{ll} \textbf{Massachusetts Department of Environmental Protection} \\ Bureau\ of\ Waste\ Site\ Cleanup \end{tabular}$

BWSC 112

Release Tracking Number

3	-	18126

BILL OF LADING (pursuant to 310 CMR 40.0030)

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

2. Contact First Name: ELLEN 3. Last No. 1. Street: 90 ROCHESTER ROAD 5. City/Town: ROCHESTER Do. Telephone: 8009634776 10. Ext: 12. Type of facility: (check one) a. Temporary Storage i. Period of Temporary Storage	5. Title: 7. State: 11. Email:		R WASTE APPRO 8. Zip Code: com	OVALS 038397065
6. City/Town: ROCHESTER 9. Telephone: 8009634776 10. Ext:	7. State:	NH	8. Zip Code:	
2. Type of facility: (check one)	_		-	038397065
12. Type of facility: (check one)	11. Email:	ebellio@wm.	com	
a. Temporary Storage i. Period of Temporary Storag				
	ge		to	
ii. Reason for Temporary Storage:	(mı	n/dd/yyyy)		(mm/dd/yyyy)
□ b. Asphalt Batch/Hot Mix	d. Landfill	Structural Fill	□e. L	andfill/Daily Cover
☐ f. Asphalt Batch/Cold Mix ☐ g. Thermal Processing ☐ h.	. Incinerator	i. Other:		
3. Division of Hazardous Waste/Class A Permit Number:				
4. Division of Solid Waste Permit Number: DES-SW-SP-95-001				_
5. EPA Identification Number:				
LSP SIGNATURE AND STAMP:				
are) the subject of this submittal for acceptance at the facility identified 40.0000, and such facility is permitted to accept Remediation Waste have am aware that significant penalties may result, including, but not limite know to be false, inaccurate or materially incomplete.	ring the chara	cteristics descr	ibed in this su	bmittal.
L. LSP #:				
2. First Name: 3. Las	st Name:			
4. Telephone: 5. Ext:	6. Email:			
7. Signature:		9. LSP Stamp		
B. Date:				
(mm/dd/yyyy)				

Revised: 9/3/2013 Page 3 of 5



$\begin{tabular}{ll} \textbf{Massachusetts Department of Environmental Protection} \\ Bureau\ of\ Waste\ Site\ Cleanup \end{tabular}$

BWSC 112

3

Release Tracking Number

	18126

BILL OF LADING (pursuant to 310 CMR 40.0030)

G. PERSC	ON SUBMITTI	NG BILL OF LADING	i:				
1. Check a	all that apply:	a. change in contact	ct name	ange of addres	ss C. c. actions		son undertaking response
2. Name o	of Organization:	CITY OF LAWRENCE					
3. Contact	First Name:	PEDRO	4. Last N	ame: SOTO)		
5. Street:	12 METHUEN ST	REET		6. Title:	PLANNING D	IRECTOR	
7. City/To	wn: LAWRENCE			8. State:	MA	9. Zip Code:	018400000
10. Teleph	none: 97862035	501	11. Ext:	12. Email:	psoto@cit	yoflawrence.com	
H. RELA	TIONSHIP TO	SITE OF PERSON SU	JBMITTING BILL (OF LADING:		Check here to	change relationship
□ 1. RP o	r PRP	a. Owner	☐ b. Operator	□ c. Ge	nerator	□d. Tran	sporter
2. Fidu 3. Ago	ency or Public U	Specify: ender or Municipality wit tility on a Right of Way (a	as defined by M.G.L. c	•		2)	
I. REQUII	RED ATTACH	MENT AND SUBMIT	ΓALS:				
		esponse Action(s) on wh EP or EPA. If the box is					
	eck here if any n C.eDEP@state.n	-	n provided on this form	n is incorrect,	e.g. Release	Address/Locati	on Aid. Send corrections to
3. Ch	eck here to certif	y that the LSP Opinion c	containing the material	facts, data, ar	d other info	rmation is attach	ned.
J. CERTI	FICATION OF	PERSON SUBMITTI	NG BILL OF LADI	NG:			
that, in th atte am/	, based on my in his submittal is, to station on behalis is aware that the	quiry of those individual to the best of my knowle f of the entity legally res	in this submittal, inclusions immediately responsed ge and belief, true, as sponsible for this sub-	uding any and sible for obtain courate and comittal. I/the p	all documening the informal omplete, and erson or en	nts accompanyi ormation, the ma (iii) that I am f city on whose be	ve personally examined and ng this transmittal form, (ii) iterial information contained fully authorized to make this chalf this submittal is made ent, for willfully submitting
2. By:				3. Title:	PLANNING D	IRECTOR	
4. For:	CITY OF LAWRE	:NCE		5. Date:			
	(Name	e of person or entity recor	rded in Section G)	_		(mm/dd/yyyy)	

Revised: 9/3/2013 Page 4 of 5



$\begin{tabular}{ll} \textbf{Massachusetts Department of Environmental Protection} \\ \textbf{Bureau of Waste Site Cleanup} \end{tabular}$

BWSC 112

Release Tracking Number

3	-	18126
Į.		Į.

BILL OF LADING (pursuant to 310 CMR 40.0030)

J. CERTIFICATION OF PE	RSON SUBMITTING BILL OF	LADING (cont.):	
	s of the person providing certificati	, , ,	s recorded in Section G.
7. Street:			
8. City/Town:		9. State:	10. Zip Code:
11. Telephone:	12. Ext:	13. Email:	·
Date Stamp (MassDEP USE ONI	YOU MAY BE PENALIZED FO	R MISSING A REQUIR	ED DEADLINE.
Received by DEP on 10/7.	/2020 2:27:13 PM		

Revised: 9/3/2013 Page 5 of 5



BWSC 112A

Release Tracking Number

		8
3	-	18126

SUMMARY OF SHIPMENT SHEET 1 OF 1

BILL OF LADING (pursuant to 310 CMR 40.0030)

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: ☐ yds3 ✓ tons ☐ 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
. Totals Recorded on this Summ	ary of Shipment Sheet:	18	582.41

Revised: 9/3/2013 Page 1 of 1



A. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE:

BWSC 112B

Release Tracking Number

3 -

18126

BILL OF LADING (pursuant to 310 CMR 40.0030) SUMMARY SHEET SIGNATURE PAGE

and am fa that, base this subm attestation aware tha	amiliar with the information contained in this submittated on my inquiry of those individuals immediately respirittal is, to the best of my knowledge and belief, true, a	al, including any and a ponsible for obtaining accurate and complete, ubmittal. I/the person	the information, the material information contained in and (iii) that I am fully authorized to make this or entity on whose behalf this submittal is made am/is
2. By:	ROBERT S MAGNUSSON	3. Title:	
1. 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/y	yyy)
this submattestationaware that	nittal is, to the best of my knowledge and belief, true, a	accurate and complete submittal. I/the person	or entity on whose behalf this submittal is made am/is
2. By:	PEDRO SOTO	3. Title:	
1. For:	CITY OF LAWRENCE	5. Date:	10/7/2020
	(Name of person or entity recorded in Section	on G)	(mm/dd/yyyy)
	eck here if the address of the person providing certific	ation is different from	address recorded in BWSC112 Section G.
7. Street:			
3. City/To	wn:	9. State:	10. Zip Code:
l 1. Teleph	none: 12. Ext:	13. Email:	
□ 14 CI	heck here if attaching ontional supporting documental	tion such as conies of	Load Information Summary Sheets

Revised: 9/3/2013 Page 1 of 1



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

Ms. Ellen Bellio -2- May 1, 2020

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

Ms. Ellen Bellio -3- May 1, 2020

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, Credere 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.

Heen 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

B:\Working\LAWRENCE, CITY OF\1802441 Former Tombarello\01_ADMIN\LSP Opinion Ltrs\Lot 1 Soil TREE\Ltr Tombarello TREE RemedWaste Profile supporting Info 2020-05-01.docx

Tables

Table 1. Chemical Testing Results - Soil Disposal Characterization Samples - Lot 1 Former Tombarello Site Lawrence, Massachusetts

				Sample ID: Sample Location: Sampling Date:	1802441-Lot1-DISP01 Lot1-DISP01 03/12/2020	1802441-Lot1-DISP02-Grab Lot1-DISP02B 03/12/2020	1802441-Lot1-DISP02-Comp Lot1-DISP02A, B, C (Composite) 03/12/2020
				Sample Depth (ft): Lab Sample ID:	1 - 7 20C0466-01	1 - 3 20C0466-02	1 - 3 20C0466-03
		1	Reuse Levels for	Reuse Levels for	2000400-01	2000466-02	2000400-03
Analyte	Method	Units	In-State Unlined Landfill	In-State Lined Landfill			
Volatile Organic Compounds (VOCs)	8260	mg/kg	Lanum	Landini			NT
1,1,2,2-Tetrachloroethane	0200	mg/kg	NS	NS	0.0059	< 0.0013	
Acetone			NS NS	NS	< 0.0068 G	0.123	
Methyl Ethyl Ketone (2-Butanone)			NS	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	4	10	0.0140	NT	
2-Methylnaphthalene	0270	mg/kg	NS	NS	< 0.324		0.298
Acenaphthylene			NS	NS	< 0.752		1.4
Anthracene			NS 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 NS	2.3		5.41
Dibenzo(a,h)anthracene			NS NS	NS	0.575		1.16
Fluoranthene			NS NS	NS NS	4.54		11.1
Fluorene			NS NS	NS NS	< 1.50		0.826
Indeno(1,2,3-cd)pyrene			NS NS	NS NS	1.5		3.07
Phenanthrene			NS NS	NS NS	2.43		8.3
Pyrene			NS NS	NS NS	4.39		10.8
Pyridine			NS NS	NS NS	<7.52		<3.44
Total SVOCs			100	100	26.425		68.194
Petroleum Hydrocarbons	8100M	mg/kg	100	100	20.423	NT	00.194
Total petroleum hydrocarbons	0 100W	ilig/kg	2,500	5,000	352	N1	876
Polychlorinated Biphenyls (PCBs)	8082	mg/kg	2,300	3,000	502	NT	070
Aroclor 1242	0002	mg/kg	NS	NS	< 0.06	141	0.1
Aroclor 1260			NS NS	NS NS	< 0.06		0.06
Total PCBs			2	2	ND		0.16
Total Metals		ma/ka			IND	NT	0.10
Arsenic	0040	mg/kg	40	40	6.61	IN I	4.93
Barium	6010 6010		NS	NS	171		57.3
Cadmium	6010		NS 30	NS 80	1.17		< 0.45
Chromium	6010		1000	1000	33.9		15.6
Lead	6010		1000	2000	392		185
Mercury	6010		1000	10	0.559		0.059
Selenium	6010		NS	NS	< 4.41		< 4.48
Silver	6010		NS NS	NS NS	< 0.44		< 0.45
TCLP Metals	1311	ma/l	ONI	ONI	` U.TT	NT	` 0.40
Lead	1311	mg/L	5	5	0.281	141	1.26
Other			j j	J	0.201		1.20
pH	9045	S.U.	NS	NS	7.75	NT	7.15
Flashpoint	1010	°F	NS NS	NS NS	> 200	NT	> 200
Reactive Cyanide	7.3.3.2	mg/kg	NS NS	NS NS	< 2.0	NT	< 2.0
Reactive Cyanide Reactive Sulfide	7.3.4.1	mg/kg	NS NS	NS NS	< 2.0	NT	< 2.0
Solids, Percent	2540G	mg/kg %	NS NS	NS NS	88	93	93
Joilus, Feiterit	20400	70	140	CVI	OO	ಶು	33

General Notes:

- Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.

 "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

 Unlined and lined landfill disposal criteria are from MassDEP Policy #COMM-97-001, dated August 15, 1997.

- NT = The sample was not tested for this analyte.

 ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.

 NS = No disposal facility criteria has been established for this analyte.

 mg/kg = milligrams per kilogram

 mg/L = milligrams per liter

 S.U. = standard units.

- 3.0. station 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

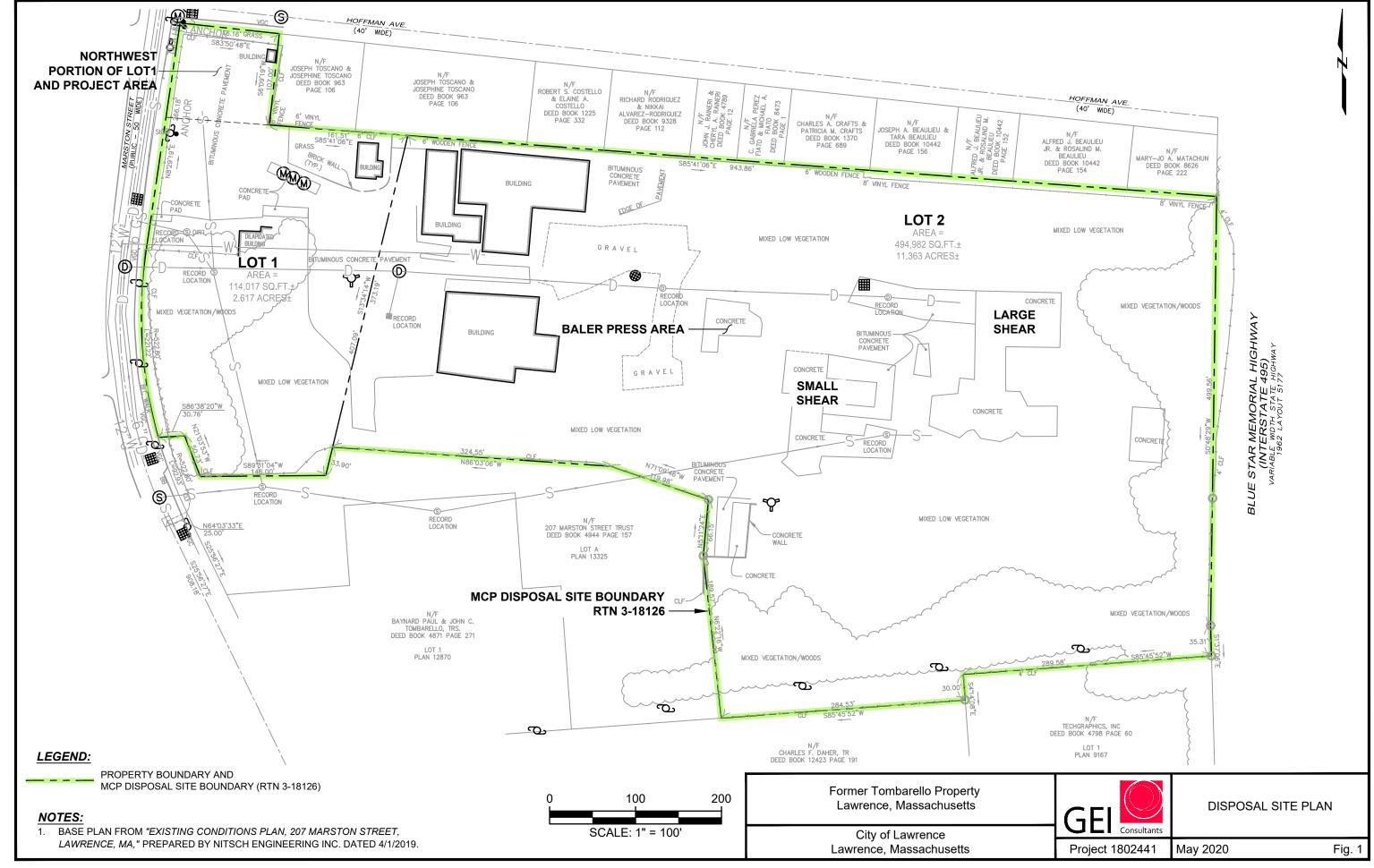
Location Name			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
	Sample Name		AS-1	AS-2	AS-2	AS-3	AS-4
	Sample Depth (in):		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
	Sample Date		9/3/2019	9/3/2019	9/3/2019	9/3/2019	9/3/2019
Parent Sample				AS-2			
Lab Sample ID:		L1940717-05	L1940717-06	L1940717-09	L1940717-07	L1940717-08	
Analyte	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

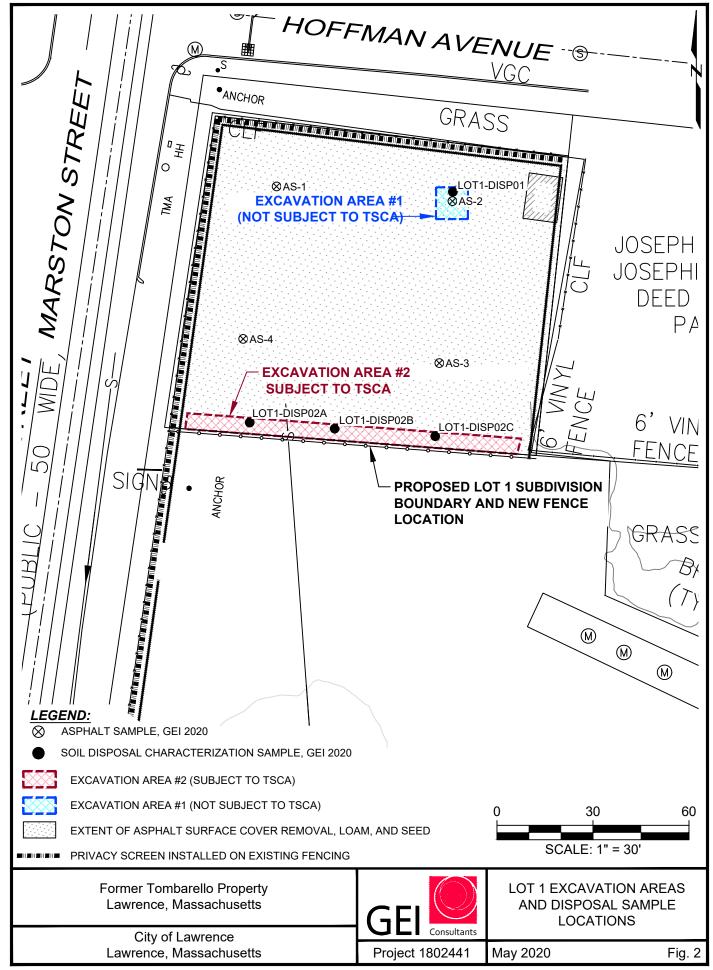
Notes:

- 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.

Tbl 2 Asphalt Data

Figures





Appendix A

Waste Management EZ Profile Form



EZ Profile™

Requested Facility: <u>Turnkey Landfill</u>		☐ Unsure Profile Number:				
☐ Multiple Generator Locations (Attach Locations)	☑ Request Certifica	ate of Disposal 🚨 Renewal? Original Profile Number:				
A. GENERATOR INFORMATION (MATERIAL ORIGIN)		B. BILLING INFORMATION SAME	E AS GENE	ERATOR		
1. Generator Name: City of Lawrence		1. Billing Name: W.L. French Excavating Corp.				
2. Site Address: 207 Marston Street		2. Billing Address:14 Sterling Rd				
(City, State, ZIP) Lawrence, MA 01841		(City, State, ZIP) Billerica, MA				
3. County: Middlesex		3. Contact Name: Dan Walsh				
4. Contact Name: Pedro Soto		4. Email: dwalsh@wlfrench.com				
5. Email: psoto@cityoflawrence.com		5. Phone: 978-663-2623 6. Fax:				
6. Phone: <u>978-620-3501</u> 7. Fax:		7. WM Hauled?	☐ Yes			
8. Generator EPA ID:		8. P.O. Number:				
9. State ID:		9. Payment Method: 🗹 Credit Account 🗀 Cash 🗀				
C. MATERIAL INFORMATION		D. REGULATORY INFORMATION				
Common Name: Urban soil and asphalt surface cover		1. EPA Hazardous Waste?	☐ Yes*	☑ No		
Describe Process Generating Material:	☑ See Attached	Code:				
		2. State Hazardous Waste?	☐ Yes	☑ No		
		Code:				
		3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?	☐ Yes*	☑ No		
2 Matarial Composition and Contaminants	D Coo Attacked	4. Contains Underlying Hazardous Constituents?	☐ Yes*	✓ No		
2. Material Composition and Contaminants:	See Attached	5. From an industry regulated under Benzene NESHAP?	☐ Yes*	✓ No		
Narrowly to widely graded sand with gravel and silty sand Trace brick and slag	<1%	6. Facility remediation subject to 40 CFR 63 GGGGG?	☐ Yes*	☑ No		
3. Asphalt debris	80%	7. CERCLA or State-mandated clean-up?	✓ Yes*			
4.	3070	8. NRC or State-regulated radioactive or NORM waste?				
Total comp. must be equal to or greater than 100%	≥100%	*If Yes, see Addendum (page 2) for additional questi		-		
3. State Waste Codes:		9. Contains PCBs? → If Yes, answer a, b and c.	Yes			
4. Color: brown, black, gray	·	a. Regulated by 40 CFR 761?	✓ Yes			
5. Physical State at 70°F: ☑ Solid □ Liquid □ Otl	ner:	b. Remediation under 40 CFR 761.61 (a)?	☑ Yes			
6. Free Liquid Range Percentage: to		c. Were PCB imported into the US?	☐ Yes	∠ No		
7. pH: to		10. Regulated and/or Untreated Medical/Infectious Waste?	Yes	No		
8. Strong Odor:		11. Contains Asbestos?	☐ Yes	⊿ No		
9. Flash Point: □ <140°F □ 140°−199°F ☑ ≥20		→ If Yes: □ Non-Friable □ Non-Friable – Regula				
E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION	DN	F. SHIPPING AND DOT INFORMATION				
1. Analytical attached	☑ Yes	1. ■ One-Time Event □ Repeat Event/Ongoing Busine	ess			
Please identify applicable samples and/or lab report:		2. Estimated Quantity/Unit of Measure: 417	-			
		☐ Tons ☑ Yards ☐ Drums ☐ Gallons ☐ Other:				
See Table 1 for applicable lab report and sample IDs See Table 2 for applicable lab data report and sample		3. Container Type and Size: end dump trailer				
occ Table 2 for applicable lab data report and sample	, ibs for aspirali.	4. USDOT Proper Shipping Name:		☑ N/A		
2. Other information attached (such as MSDS)?	☑ Yes	4. 03DOT Floper Shipping Name.		■ N/A		
G. GENERATOR CERTIFICATION (PLEASE READ AND CERTII	EV DV SIGNATIIDE)					
By signing this EZ Profile™ form, I hereby certify that all information all relevant information necessary for proper material characterizal from a sample that is representative as defined in 40 CFR 261 - A	on submitted in this and tion and to identify kno ppendix 1 or by using a	d all attached documents contain true and accurate descriptions of this rown and suspected hazards has been provided. Any analytical data attacent equivalent method. All changes occurring in the character of the material to Waste Management prior to providing the material to Waste Managemer	ched was d terial (i.e., c	derived		
If I am an agent signing on behalf of the Generator, I have confidence of the Generator that information contained in this Profile is accurate.		Certification Signature —				
Name (Print): Pedro Soto Dat	te: <u>5/1/2020</u>					
Title: Planning Director						
Company: City of Lawrence		IN W/V				



EZ Profile™ Addendum

WA	STE	MAN
4	7	Oı

Only complete this Addendum if prompted by responses on EZ or to provide additional information. Sections and question no EZ Profile TM .	
C. MATERIAL INFORMATION	
Describe Process Generating Material (Continued from page 1):	If more space is needed, please attach additional page
Material Composition and Contaminants (Continued from page 1):	If more space is needed, please attach additional page
5.	
6.	
7.	
8.	
9. Total d	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™ f 1. EPA Hazardous Waste a. Please list all USEPA listed and characteristic waste code numbers:	orm (page 1) need to be answered here.
b. Is the material subject to the Alternative Debris standards (40 CFR 268. c. Is the material subject to the Alternative Soil standards (40 CFR 268.49 d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? → If Yes, please check one of the following: □ Waste meets LDR or treatment exemptions for organics (40 CFR □ Waste contains VOCs that average <500 ppmw (CFR 264.1082)? 2. State Hazardous Waste → Please list all state waste codes:)? → If Yes, complete question 4.
3. For material that is Treated, Delisted, or Excluded → Please indicate the ca	ategory below:
	261.4 → Specify Exclusion:
	us Waste → If checked, complete question 4.
4. Underlying Hazardous Constituents → Please list all Underlying Hazardous	·
5. Industries regulated under Benzene NESHAP include petroleum refineries, cher	
a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionr	
b. Does this material contain benzene?	☐ Yes ☐ I
1. If yes, what is the flow weighted average concentration?	ppm
c. What is your facility's current total annual benzene quantity in Megagrar	ns? □ <1 Mg □ 1-9.99 Mg □ ≥10 N
d. Is this waste soil from a remediation?	☐ Yes ☐ I
1. If yes, what is the benzene concentration in remediation waste?	ppm
e. Does the waste contain >10% water/moisture?	□ Yes □ I
f. Has material been treated to remove 99% of the benzene or to achieve	
 g. Is material exempt from controls in accordance with 40 CFR 61.342? → If yes, specify exemption: 	☐ Yes ☐ N
h. Based on your knowledge of your waste and the BWON regulations, do	
treatment and control requirements at an off-site TSDF?	Yes T
6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at	
7. CERCLA or State-Mandated clean up \rightarrow Please submit the Record of Decisi	
the evaluation for proper disposal. A "Determination of Acceptability" may be	
8. NRC or state regulated radioactive or NORM Waste → Please identify Isot	opes 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 a	dditional page:
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		
20.		
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30.		
31.		
32.		
33.		
34.		
35.		
36.		
37.		
38.		
39.		
10.		
	Total composition must be equal to or greater than 100%	≥100%
DECLII ATORV INFORMATION		
. REGULATORY INFORMATION . EPA Hazardous Waste		
a. Please list all USEPA listed and characteristic waste code number	ors (Continued from page 2):	
d. Flease list all OSELA listed and characteristic waste code number	:13 (Continued Horn page 2).	
. Form Code:		
. Source Code:		
. Jource Code.		



Additional Profile Information

Profile Number:	
-----------------	--

F. SHIPPING AND DOT INFORMATION

4. USDOT Proper Shipping & Technical Name (Continued from page 1):

2.	□ N/A
3.	□ N/A
4.	□ N/A
5.	□ N/A
6.	□ N/A
7.	□ N/A
8.	□ N/A
9.	□ N/A
10.	□ N/A
11.	Ŭ N/A
12.	□ N/A
13.	□ N/A
14.	□ N/A
15.	□ N/A
16.	□ N/A
17.	, □ N/A
18.	□ N/A
19.	□ N/A
20.	□ N/A
21.	, □ N/A
22.	, □ N/A
23.	□ N/A
24.	□ N/A
25.	□ N/A
26.	□ N/A
27.	□ N/A
28.	□ N/A
29.	□ N/A
30.	□ N/A
31.	□ N/A
32.	□ N/A
33.	□ N/A
34.	□ N/A
35.	□ N/A
36.	□ N/A
37.	□ N/A
38.	□ N/A
39.	□ N/A
40.	□ N/A
41.	□ N/A
42.	□ N/A
43.	□ N/A
44.	□ N/A
	□ N/A
45. 46.	□ N/A
47.	
48.	□ N/A
	□ N/A
49.	□ N/A
50.	□ N/A
51.	□ N/A



Additional Profile Information

	Profile Number:
C. MATERIAL INFORMATION 3. State Waste Codes (Continued from page 1):	
2.	
3.	
4.	
5.	
6.	
7.	
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17.	
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19.	
20.	
21.	

Appendix B

Bill of Lading (BOL; BWSC112)



Massachusetts Department of Environmental Protection

Bureau of Waste Site Cleanup WM Profile No. 497552NH

BWSC 1	12
--------	----

Release Tracking Number

recrease	Tracking Trainious		
3	-	18126	

BILL OF LADING (pursuant to 310 CMR 40.0030)

A. LOCATION OF SITE OR D	ISPOSAL SITE WHERE R	EMEDIATION WASTE W	AS GENERATED:
1. Release Name/Location Aid:	TOMBARELLO AND SON	S INC HOFMAN AVE	
2. Street Address: 207 MA	RSTON ST		
3. City/Town: LAWRENCE		4. Zip Code:	018410000
•	osal site that is the source of the Tier ID c. Tier II	e release is Tier Classified. Ch	neck the current Tier Classification Category.
B. THIS FORM IS BEING US	ED TO: (check one: B1-B4):		
Response Actions associa	OL) to transport Remediation ted with this BOL (check all t	hat apply):	
a. Immediate Respons		e. Comprehensive Re	
▼ b. Release Abatement	,	f. Limited Removal Act	ion (LRA): (must be) CMR 40.0034(6); can't be
c. Downgradient Prop	, ,	submitted via eDEP)	
d. Utility Release Aba	tement Measure (URAM)	g. Other	
3. Submit an Attestation of C	o the Department:	he Bill of Lading is Void. (Second Benefit Second Benefit Second Benefit Benef	- · · · · · · · · · · · · · · · · · · ·
6. Period of Generation Associate		nm/dd/yyyy) = 5/1/2020 to 8/ (mm/dd/yyyy)	/31/2020 (mm/dd/yyyy)
· ·	ctions of this transmittal form onsidered complete until the A		erwise noted above) hipment is received by the Department.
C. DESCRIPTION OF WASTE	E AND WASTE SOURCE:		
1. Contaminated Media/Debris (c	heck all that apply):		
a. Soil b. Groundy	vater	er 🔲 d. Sediment	e. Vegetation or Organic Debris
f. Demolition/Construction	Waste g. Inorganic A	bsorbent Materials 🔽 h. O	ther: ASPHALT PAVEMENT
2. Uncontainerized Waste (check	all that apply):		
a. Inorganic Absorbent Ma	terials b. Other:		

Revised: 9/3/2013 Page 1 of 5



$\begin{tabular}{ll} \textbf{Massachusetts Department of Environmental Protection} \\ Bureau\ of\ Waste\ Site\ Cleanup \end{tabular}$

BWSC 112

Release	Tracking	Number

		8
3	-	18126

BILL OF LADING (pursuant to 310 CMR 40.0030)

C. DESCRIPTION OF WASTE AND V3. Containerized Waste (check all that appl	,	ш.,	
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 Sto	orage Tank	c. Brownfields Redevelopment
d. Other:			
6. Type of Contaminant (check all that app	ly):		
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 Solvent	s 🔽 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 Repo	ortable Concentration C	ategory of the site:	
a. RCS-1 b. RCS-2	c. RCGW-1	d. RCGW-2	
9. Remediation Waste Characterization Do	cumentation (check at 1	east one):	
a. Site History Information	b. Sampling Analytica	al Methods and Proc	edures c. Laboratory Data
▼ d. Field Screening Data	e. Characterization Doc	umentation previous	sly submitted to the Department
	ii. Type of Documentat	ion:	
(mm/dd/yy		FION	
D. TRANSPORTER OR COMMON CA			
1. Transporter/Common Carrier Name:	W.L. FRENCH EXCA		
2. Contact First Name: DAN		3. Last Nam	e: WALSH
4. Street: 14 STERLING ROAD		5. Title	e: 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

Revised: 9/3/2013 Page 2 of 5



1. Operator/Facility Name:

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC 112

Release Tracking Number

3	-	18126
-		10120

BILL OF LADING (pursuant to 310 CMR 40.0030)

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

1. Operator/Faci	ility Name: WA	STE MANAGEMENT C	OF NH (TREE))					
2. Contact First	Name: ELLEN		3	. Last Name:	BELL	_IO			
4. Street: 90 R	OCHESTER NECK R	OAD		5. T	itle:	SR. MGR. WAS	STE APPROVAL	.S	
6. City/Town:	ROCHESTER			7. Sta	ite:	NH	8. Zip Code:	038397065	
9. Telephone:	8009634776	1	0. Ext:	11. Eı	nail:	EBELLIO@W	M.COM		
12. Type of facil	lity: (check one)								
a. Temporar	ry Storage	i. Period o	f Temporary	Storage			to		
ii. Reason fo	or Temporary Stora	nge:			(mr	m/dd/yyyy)		(mm/dd/yyyy)	
□ b. Aspha	lt Batch/Hot Mix	c. Landfill/D	isposal	□ d. Laı	ndfill/	Structural Fill	□ e. I	Landfill/Daily Cov	er
☐ f. Asphal	It Batch/Cold Mix	g. Thermal P	rocessing	h. Inciner	ator	i. Other:			
13. Division of I	Hazardous Waste/O	Class A Permit Nun	nber:						
14. Division of S	Solid Waste Permit	Number: DES-	SW-SP-95-00	01					
15. EPA Identifi	cation Number:								
. LSP SIGNAT	URE AND STAM	TP:							
(are) the subject 40.0000, and suc I am aware that	t of this submittal ch facility is perm.	rmation and belief, for acceptance at th itted to accept Rem es may result, inclu terially incomplete.	e facility id ediation Wa ding, but no	entified in this saste having the o	submi	ittal comply wi	ith applicable pribed in this su	provisions of 310 (abmittal.	CMR
1. LSP#:	9719								
2. First Name:	ILEENS			3. Last Name:	G	SLADSTONE			
4. Telephone:	7817214012		5. Ext:	6. E	mail:	igladstone@	geiconsultants.	com	
7. Signature:		_				9. LSP Stamp			
8. Date:									1
	(mm/dd/yyyy	y)							
arria a de 0/2/20	112							.	<u></u>

Revised: 9/3/2013 Page 3 of 5



Pologo T

BWSC 112

Release Tracking Number						
3	-	18126				

BILL OF LADING (pursuant to 310 CMR 40.0030)

G. PERSON S	SUBMITT	ING BILL OF LA	DING:				
1. Check all tha	at apply:	a. change in	contact name	☐ b. chang	e of addre		c. change in the person undertaking response ons
2. Name of Org	ganization:	CITY OF LAWREN	NCE				
3. Contact First	t Name:	PEDRO		4. Last Nam	e: soto)	
5. Street: 121	METHUEN S	TREET		_	6. Title:	PLANNIN	G DIRECTOR
7. City/Town:	LAWRENC	Œ			8. State:	MA	9. Zip Code: 018400000
10. Telephone:	9786203	3501	11. Ext:		12. Email:	psoto@	Ocityoflawrence.com
H. RELATION	NSHIP TO	SITE OF PERSO	ON SUBMITTI	NG BILL OF	LADING	:	Check here to change relationship
1. RP or PRI	P	a. Owner	□ b. Ор	erator	□ c. Ge	enerator	d. Transporter
e. Other	RP or PRP	Spec	eify:				
✓ 2. Fiduciary	, Secured I	Lender or Municipal	ity with Exempt	Status (as defin	ed by M.G	.L. c. 21E	(s, s. 2)
☐ 3. Agency	or Public U	Jtility on a Right of	Way (as defined	by M.G.L. c. 2	IE, s. 5(j))		
4. Any Ot	her Person	Undertaking Respo	onse Actions:	Specify Re	lationship	:	
. REQUIRED	ATTACI	IMENT AND SUB	BMITTALS:				
							ubject to any order(s), permit(s) and/or lying the applicable provisions thereof.
	here if any DEP@state.		mation provided	on this form is	incorrect,	e.g. Rele	ease Address/Location Aid. Send corrections to
3. Check h	nere to cert	ify that the LSP Opi	inion containing	the material fac	ets, data, a	nd other i	nformation is attached.
J. CERTIFICA	ATION O	F PERSON SUBM	IITTING BILL	OF LADING	:		
that, base in this su attestation am/is aw	ed on my i abmittal is, on on beha ware that th	nquiry of those indi to the best of my k lf of the entity lega	ained in this sub viduals immedia nowledge and be ally responsible penalties, includ	omittal, includi ately responsible belief, true, accu for this submit	ng any and e for obtain rate and co tal. I/the p	d all docu ning the omplete, person or	perjury (i) that I have personally examined and aments accompanying this transmittal form, (ii information, the material information contained and (iii) that I am fully authorized to make this entity on whose behalf this submittal is made nes and imprisonment, for willfully submitting
2. By:					3. Title:	PLANNIN	G DIRECTOR
4. For: СП	TY OF LAWR	ENCE			5. Date:		
2. Name of Org 3. Contact Firs 5. Street: 12 7. City/Town: 10. Telephone: I. RELATION I. RP or PRI I. e. Other I. Any Ot REQUIRED I. Check happrovals I. Check happrovals	(Nan	ne of person or entity	y recorded in Sec	ction G)			(mm/dd/yyyy)

Revised: 9/3/2013 Page 4 of 5

WM Profile No. 497552NH



Massachusetts Department of Environmental Protection *Bureau of Waste Site Cleanup*

BWSC 112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

3 - 18126

J. CERTIFICATION OF PE	RSON SUBMITTING BILL OF	LADING (cont.):		
6. Check here if the address	s of the person providing certification	on is different from addres	s recorded in Section G.	
7. Street:				
8. City/Town:		9. State:	10. Zip Code:	
11. Telephone:	12. Ext:	13. Email:		
FORM OR DEP MAY	RETURN THE DOCUMENT AS YOU MAY BE PENALIZED FOI	INCOMPLETE. IF YO	LL RELEVANT SECTIONS OF T U SUBMIT AN INCOMPLETE F ED DEADLINE.	
Oate Stamp (MassDEP USE ONI	.Y):			

Revised: 9/3/2013 Page 5 of 5

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

The Microbiology Division of Thielsch Engineering, Inc.



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.

The Microbiology Division of Thielsch Engineering, Inc.



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

The Microbiology Division of Thielsch Engineering, Inc.



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 <u>Elevated Method Reporting Limits due to sample matrix (EL).</u> 20C0466-03 <u>Elevated Method Reporting Limits due to sample matrix (EL).</u>

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

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



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.



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name:	GEI	Consul	ltants,	Inc.
--------------	-----	--------	---------	------

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

MassDEP Analytical Protocol Certification Form

	1	MADEP RT	N:				_				
This	s form	provides ce	ertifica	ation for the follo	wing	data set: 20C0466-01 t	hrough 20C0466-03				
Mat	rices:	() Ground	d Wate	er/Surface Water		(X) Soil/Sediment	() Drinking Water	() Air	() Other:_		
CA	M Pro	otocol (che	ck all	that apply below	y):						
(X)	8260 CAM		(X)	7470/7471 Hg CAM III B	() MassDEP VPH (GC/PID/FID) CAM IV A	(X) 8082 PCB CAM V A	Ò	0014 Total Cyanide/PAC CAM VI A	` ′	0 Perchlorate M VIII B
(X)	8270 CAM	SVOC 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	` ′	ssDEP APH M IX A
(X)	6010 CAM	Metals III A	()	6020 Metals CAM III D	() MassDEP EPH CAM IV B	() 8151 Herbicides CAM V C		xplosives CAM VIII A	() TO-	15 VOC M IX B
			A	Affirmative respo	onses	to questions A throug	gh F are required for "P	resumptive	Certainty" sta	utus	
A		-					ibed on the Chain-of-Custo pared/analyzed within met		•	Yes	(X) No()
В	Were follow	-	cal me	ethod(s) and all as	sociat	red QC requirements sp	pecified in the selected CA	M protocol	(s)	Yes	(X) No ()
С		_				rtical response actions and ard non-conforman	specified in the selected C. ces?	AM protoco	ol(s)	Yes	(X) No ()
D							ts specified in the CAM V eporting of Analytical Dat		ty	Yes	(X) No ()
Е				•		h method conducted w cant modifications).	ithout significant modifica	ation(s)? (Re	efer	Yes	() No ()
	b. AP	H and TO-	15 Me	thods only: Was	the co	mplete analyte list repo	orted for each method?			Yes	() No()
F					_	erformance standard no esponses to Questions	n-conformances identified A through E)?	l and evalua	ted	Yes	(X) No ()
				Responses to	Ques	stions G, H and I below	v are required for '''Presu	ımptive Ceri	tainty'' status		
G	<u>Data</u>	<u>User Note:</u>	Data ti	hat achieve ''Pres	umpti		fied in the selected CAM pay not necessarily meet the and WSC-07-350			Yes	() No (X)*
Н	_		_			in the CAM protocol(Yes	() No (X)*
I				•		• '	elected CAM protocol(s)?				() No (X)*
*Al		•		•	•	n attached laboratory	• ' '				., .,

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: _____ Date: March 20, 2020
Printed Name: Laurel Stoddard Position: Laboratory Director

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466
Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

Date Sampled: 03/12/20 08:40

Percent Solids: 88

Sample Matrix: Soil Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte Arsenic	Results (MRL) 6.61 (2.20)	<u>MDL</u>	Method 6010C	<u>Limit</u>	<u>DF</u>	Analyst KJK	Analyzed 03/17/20 20:54	<u>I/V</u> 2.57	F/V 100	Batch 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



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Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466
Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

Date Sampled: 03/12/20 08:40

Percent Solids: 88

Sample Matrix: Soil

Units: mg/L

Extraction Method: 3005A TCLP

1311 TCLP Metals

TCLP

 Analyte
 Results (MRL)
 MDL
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Lead
 0.281 (0.050)
 1311/6010C
 1
 KJK
 03/19/20 20:36
 50
 50
 DC01937

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

ESS Laboratory Work Order: 20C0466 Client Project ID: Tombarello Site Investigation Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

Date Sampled: 03/12/20 08:40

Percent Solids: 88 Initial Volume: 8.3 Final Volume: 10

Extraction Method: 5035

Sample Matrix: Soil Units: mg/kg dry Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte 1,1,1,2-Tetrachloroethane	Results (MRL) ND (0.0034)	<u>MDL</u>	Method 8260B Low	<u>Limit</u>	<u>DF</u>	Analyzed 03/18/20 20:39	Sequence D0C0330	Batch 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

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

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

Sample Matrix: Soil Units: mg/kg dry Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte Bromodichloromethane	Results (MRL) ND (0.0034)	<u>MDL</u>	Method 8260B Low	<u>Limit</u>	<u>DF</u>	Analyzed 03/18/20 20:39	Sequence D0C0330	Batch 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

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466 Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

Date Sampled: 03/12/20 08:40

Percent Solids: 88 Initial Volume: 8.3 Final Volume: 10

Extraction Method: 5035

Sample Matrix: Soil

Units: mg/kg dry Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	Results (MRL)	MDL	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	Batch
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]
	•	%Recovery	Qualifier	Limits				
Surrogate: 1,2-Dichloroethane-d4		89 %		70-130				
Surrogate: 4-Bromofluorobenzene		77 %		70-130				
Surrogate: Dibromofluoromethane		94 %		70-130				
Surrogate: Toluene-d8		108 %		70-130				



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Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466
Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

Date Sampled: 03/12/20 08:40

Percent Solids: 88 Initial Volume: 19.6 Final Volume: 10

Extraction Method: 3540C

Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC

Prepared: 3/17/20 14:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



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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

Analyte Total Petroleum Hydrocarbons	Results (MRL) MI 352 (58.4)	Method 8100M	<u>Limit</u>	<u>DF</u> 5	Analyzed 03/25/20 23:09	Sequence D0C0445	Batch DC02311
	%Recovery	Qualifier	Limits				
Surrogate: O-Terphenyl	88 %		40-140				

185 Frances Avenue, Cranston, RI 02910-2211

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Quality

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Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466 Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

Date Sampled: 03/12/20 08:40

Percent Solids: 88 Initial Volume: 15.1 Final Volume: 1

Extraction Method: 3546

Sample Matrix: Soil Units: mg/kg dry Analyst: TJ

Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

Analyte 1,2,4-Trichlorobenzene	Results (MRL) ND (1.50)	<u>MDL</u>	Method 8270D	<u>Limit</u>	$\frac{\mathbf{DF}}{2}$	Analyzed 03/19/20 2:54	Sequence D0C0313	Batch 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

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

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

Sample Matrix: Soil Units: mg/kg dry Analyst: TJ

Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
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

%Recovery Qualifier Limits Surrogate: 1,2-Dichlorobenzene-d4 *56* % 30-130 Surrogate: 2,4,6-Tribromophenol 30-130 77 % Surrogate: 2-Chlorophenol-d4 30-130

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466 Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

Date Sampled: 03/12/20 08:40

Percent Solids: 88 Initial Volume: 15.1 Final Volume: 1

Extraction Method: 3546

Sample Matrix: Soil Units: mg/kg dry Analyst: TJ

Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Surrogate: 2-Fluorobiphenyl		65 %		30-130				
Surrogate: 2-Fluorophenol		54 %		30-130				
Surrogate: Nitrobenzene-d5		59 %		30-130				
Surrogate: Phenol-d6		62 %		30-130				
Surrogate: p-Terphenyl-d14		83 %		30-130				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte Corrosivity (pH)	Results (MRL) 7.75 (N/A)	MDL Method 9045	<u>Limit</u>	<u>DF</u>	Analyst DEL	Analyzed 03/13/20 20:45	Units S.U.	Batch DC01326
Corrosivity (pH) Sample Temp	Soil pH measured in w	vater 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



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation Client Sample ID: 1802441-Lot1-DISP01 ESS Laboratory Sample ID: 20C0466-01

Date Sampled: 03/12/20 08:40

Percent Solids: 88 Initial Volume: 100 Final Volume: 2000

Extraction Method: 1311

ESS Laboratory Work Order: 20C0466

Sample Matrix: Soil

Units: °C

Analyst: MKS

Prepared: 3/18/20 20:15

TCLP Extraction by 1311

Analyte Temperature (Min C)	Results (MRL) 19.8 (N/A)	<u>MDL</u>	<u>Method</u> 1311	<u>Limit</u>	<u>DF</u>	Analyst MKS 0	Analyzed 03/19/20 12:20	Batch DC01824
Temperature (Max C)	21.4 (N/A)		1311		1	MKS 0	3/19/20 12:20	DC01824
m								

Temperature (Range) Temperature is not within 23 +/-2 °C. (N/A)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

ESS Laboratory Work Order: 20C0466 Client Project ID: Tombarello Site Investigation Client Sample ID: 1802441-Lot1-DISP02-Grab ESS Laboratory Sample ID: 20C0466-02

Date Sampled: 03/12/20 08:50

Percent Solids: 93 Initial Volume: 8.4 Final Volume: 10

Extraction Method: 5035

Sample Matrix: Soil Units: mg/kg dry Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte 1,1,1,2-Tetrachloroethane	Results (MRL) ND (0.0032)	MDL	Method 8260B Low	<u>Limit</u>	<u>DF</u>	Analyzed 03/19/20 16:58	Sequence D0C0358	Batch 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

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation Client Sample ID: 1802441-Lot1-DISP02-Grab ESS Laboratory Sample ID: 20C0466-02

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

Sample Matrix: Soil Units: mg/kg dry Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte Bromodichloromethane	Results (MRL) ND (0.0032)	<u>MDL</u>	Method 8260B Low	<u>Limit</u>	<u>DF</u>	Analyzed 03/19/20 16:58	Sequence D0C0358	Batch 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

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The Microbiology Division of Thielsch Engineering, Inc.



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>	Results (MRL)	MDL Method	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	Batch
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]
	%Reco	overy Qualifier	Limits				
Surrogate: 1,2-Dichloroethane-d4	10	0 %	70-130				

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130
Surrogate: 4-Bromofluorobenzene	82 %	70-130
Surrogate: Dibromofluoromethane	106 %	70-130
Surrogate: Toluene-d8	112 %	70-130

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466
Client Sample ID: 1802441-Lot1-DISP02-Comp ESS Laboratory Sample ID: 20C0466-03

Date Sampled: 03/12/20 11:30

Percent Solids: 93

Sample Matrix: Soil Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte Arsenic	Results (MRL) 4.93 (2.24)	MDL	Method 6010C	<u>Limit</u>	<u>DF</u>	Analyst KJK	Analyzed 03/17/20 21:13	<u>I/V</u> 2.41	$\frac{\mathbf{F/V}}{100}$	Batch 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

Service



The Microbiology Division of Thielsch Engineering, Inc.



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

TCLP

 Analyte
 Results (MRL)
 MDL
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Lead
 1.26 (0.050)
 1311/6010C
 1
 KJK
 03/19/20 21:08
 50
 50
 DC01937

The Microbiology Division of Thielsch Engineering, Inc.



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)

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
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
	9/6	6Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>75</i> %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte Total Petroleum Hydrocarbons	Results (MRL) 876 (111)	MDL	Method 8100M	<u>Limit</u>	<u>DF</u> 10	Analyzed 03/25/20 23:42	Sequence D0C0445	Batch DC02311
	%	Recovery	Qualifier	Limits				
Surrogate: O-Terphenyl		107 %		40-140				

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The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte 1,2,4-Trichlorobenzene	Results (MRL) ND (0.687)	<u>MDL</u>	Method 8270D	Limit	$\frac{\mathbf{DF}}{2}$	<u>Analyzed</u> 03/19/20 3:20	Sequence D0C0313	Batch 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

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Dependability

Quality

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The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte bis(2-Chloroethoxy)methane	Results (MRL) ND (0.687)	MDL <u>Metho</u> 8270D	<u>Analy</u> 2 03/19/20		Batch 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

 %Recovery
 Qualifier
 Limits

 Surrogate: 1,2-Dichlorobenzene-d4
 49 %
 30-130

 Surrogate: 2,4,6-Tribromophenol
 73 %
 30-130

 Surrogate: 2-Chlorophenol-d4
 54 %
 30-130

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Lai
Client Sample ID: 1802441-Lot1-DISP02-Comp ESS Lai

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

Analyte	Results (MRL)	MDL	Method	Limit	<u>DF</u>	Analyzed	Sequence	Batch
Surrogate: 2-Fluorobiphenyl		57 %		30-130				
Surrogate: 2-Fluorophenol		47 %		30-130				
Surrogate: Nitrobenzene-d5		51 %		30-130				
Surrogate: Phenol-d6		53 %		30-130				
Surrogate: p-Terphenyl-d14		78 %		30-130				



The Microbiology Division of Thielsch Engineering, Inc.



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

Analyte Corrosivity (pH)	Results (MRL) 7.15 (N/A)	<u>MDL</u> <u>Met</u> 90-	thod 45 Limit	<u>DF</u> 1	Analyst DEL	Analyzed 03/13/20 20:45	Units S.U.	Batch DC01326
Corrosivity (pH) Sample Temp	Soil pH measured in v	vater at 19.3 °C.						
Flashpoint	> 200 (N/A)	10	10	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



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation Client Sample ID: 1802441-Lot1-DISP02-Comp ESS Laboratory Sample ID: 20C0466-03

Date Sampled: 03/12/20 11:30

Percent Solids: 93

Initial Volume: 100 Final Volume: 2000 Extraction Method: 1311 ESS Laboratory Work Order: 20C0466

Sample Matrix: Soil

Units: °C Analyst: MKS

Prepared: 3/18/20 20:15

TCLP Extraction by 1311

Analyte Temperature (Min C)	Results (MRL) 19.8 (N/A)	MDL	<u>Method</u> 1311	Limit	<u>DF</u>		nalyzed 0/20 12:20	Batch DC01824
Temperature (Max C)	21.4 (N/A)		1311		1	MKS 03/19	9/20 12:20	DC01824

Temperature (Range) Temperature is not within 23 +/-2 °C. (N/A)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

		- Lucii	-,							
Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
			Total Meta	ls						
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							
LCS			3, 3							
Mercury	9.60	0.550	mg/kg wet	7.760		124	71-125			
·	9.00	0.550	mg/kg wet	7.700		124	/ 1-123			
LCS Dup				7		4.6	74 :			
Mercury	9.15	0.574	mg/kg wet	7.760		118	71-125	5	20	
			1311 TCLP M	etals						
Batch DC01937 - 3005A_TCLP										
Blank										
Lead	ND	0.050	mg/L							
LCS										
Lead	0.469	0.050	mg/L	0.5000		94	80-120			
			· 51 =							
LCS Dup	0.472	0.050	ma/l	0.5000		94	80-120	0.7	20	
Leau	0.4/2	0.050	mg/L	0.5000		34	00-120	0.7	20	

5035/8260B Volatile Organic Compounds / Low Level



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Batch DC01838 - 5035

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

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
.,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet
.,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet
,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet
,2-Dibromoethane	ND	0.0050	mg/kg wet
,2-Dichlorobenzene	ND	0.0050	mg/kg wet
,2-Dichloroethane	ND	0.0050	mg/kg wet
,2-Dichloropropane	ND	0.0050	mg/kg wet
,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
,3-Dichlorobenzene	ND	0.0050	mg/kg wet
,3-Dichloropropane	ND	0.0050	mg/kg wet
,4-Dichlorobenzene	ND	0.0050	mg/kg wet
4-Dioxane	ND	0.100	mg/kg wet
,2-Dichloropropane	ND	0.0050	mg/kg wet
-Butanone	ND	0.0100	mg/kg wet
-Chlorotoluene	ND	0.0050	mg/kg wet
-Hexanone	ND	0.0100	mg/kg wet
-Chlorotoluene	ND	0.0050	mg/kg wet
-Isopropyltoluene	ND	0.0050	mg/kg wet
-Methyl-2-Pentanone	ND	0.0100	mg/kg wet
cetone	0.0292	0.0100	mg/kg wet
enzene	ND	0.0050	mg/kg wet
romobenzene	ND	0.0050	mg/kg wet
romochloromethane	ND	0.0050	mg/kg wet
romodichloromethane	ND	0.0050	mg/kg wet
romoform	ND	0.0050	mg/kg wet
romomethane	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
hloroethane	ND	0.0100	mg/kg wet
Chloroform	ND	0.0050	mg/kg wet
Chloromethane	ND	0.0100	mg/kg wet
is-1,2-Dichloroethene	ND	0.0050	mg/kg wet
is-1,3-Dichloropropene	ND	0.0050	mg/kg wet

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

5035/8260B	Volatile	Organic	Compound:	s /	Low	Level
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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	

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Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

5035/8260B	Volatile	Organic	Compound:	s /	Low	Level
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Batch DC01838 - 5035							
,2-Dichlorobenzene	0.0490	0.0050	mg/kg wet	0.05000	98	70-130	
2-Dichloroethane	0.0449	0.0050	mg/kg wet	0.05000	90	70-130	
-Dichloropropane	0.0419	0.0050	mg/kg wet	0.05000	84	70-130	
5-Trimethylbenzene	0.0465	0.0050	mg/kg wet	0.05000	93	70-130	
Dichlorobenzene	0.0491	0.0050	mg/kg wet	0.05000	98	70-130	
oichloropropane	0.0454	0.0050	mg/kg wet	0.05000	91	70-130	
ichlorobenzene	0.0494	0.0050	mg/kg wet	0.05000	99	70-130	
ioxane	0.858	0.100	mg/kg wet	1.000	86	70-130	
Dichloropropane	0.0489	0.0050	mg/kg wet	0.05000	98	70-130	
anone	0.201	0.0100	mg/kg wet	0.2500	80	70-130	
orotoluene	0.0454	0.0050	mg/kg wet	0.05000	91	70-130	
anone	0.214	0.0100	mg/kg wet	0.2500	86	70-130	
rotoluene	0.0455	0.0050	mg/kg wet	0.05000	91	70-130	
propyltoluene	0.0465	0.0050	mg/kg wet	0.05000	93	70-130	
hyl-2-Pentanone	0.208	0.0100	mg/kg wet	0.2500	83	70-130	
ne	0.174	0.0100	mg/kg wet	0.2500	70	70-130	
ne	0.0433	0.0050	mg/kg wet	0.05000	87	70-130	
benzene	0.0473	0.0050	mg/kg wet	0.05000	95	70-130	
ochloromethane	0.0472	0.0050	mg/kg wet	0.05000	94	70-130	
chloromethane	0.0439	0.0050	mg/kg wet	0.05000	88	70-130	
rm	0.0446	0.0050	mg/kg wet	0.05000	89	70-130	
nethane	0.0398	0.0100	mg/kg wet	0.05000	80	70-130	
Disulfide	0.0442	0.0050	mg/kg wet	0.05000	88	70-130	
etrachloride	0.0471	0.0050	mg/kg wet	0.05000	94	70-130	
enzene	0.0471	0.0050	mg/kg wet	0.05000	94	70-130	
nane	0.0373	0.0100	mg/kg wet	0.05000	75	70-130	
rm	0.0443	0.0050	mg/kg wet	0.05000	89	70-130	
nethane	0.0369	0.0100	mg/kg wet	0.05000	74	70-130	
-Dichloroethene	0.0464	0.0050	mg/kg wet	0.05000	93	70-130	
Dichloropropene	0.0453	0.0050	mg/kg wet	0.05000	91	70-130	
nochloromethane	0.0452	0.0020	mg/kg wet	0.05000	90	70-130	
nomethane	0.0447	0.0050	mg/kg wet	0.05000	89	70-130	
odifluoromethane	0.0454	0.0100	mg/kg wet	0.05000	91	70-130	
l Ether	0.0412	0.0050	mg/kg wet	0.05000	82	70-130	
propyl ether	0.0402	0.0050	mg/kg wet	0.05000	80	70-130	
ertiary-butyl ether	0.0514	0.0050	mg/kg wet	0.05000	103	70-130	
penzene	0.0466	0.0050	mg/kg wet	0.05000	93	70-130	
hlorobutadiene	0.0530	0.0050	mg/kg wet	0.05000	106	70-130	
pylbenzene	0.0459	0.0050	mg/kg wet	0.05000	92	70-130	
tert-Butyl Ether	0.0511	0.0050	mg/kg wet	0.05000	102	70-130	
lene Chloride	0.0463	0.0100	mg/kg wet	0.05000	93	70-130	
halene	0.0440	0.0050	mg/kg wet	0.05000	88	70-130	
Ibenzene	0.0398	0.0050	mg/kg wet	0.05000	80	70-130	
pylbenzene	0.0459	0.0050	mg/kg wet	0.05000	92	70-130	
utylbenzene	0.0462	0.0050	mg/kg wet	0.05000	92	70-130	
Lynochizene	0.0402	0.0000	ilig/kg wet	0.03000	32	70 130	

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

5035/8260B	Volatile	Organic	Compounds	/ I	_OW	Leve	l
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Satch DC01838 - 5035								
tyrene	0.0457	0.0050	mg/kg wet	0.05000	91	70-130		
ert-Butylbenzene	0.0471	0.0050	mg/kg wet	0.05000	94	70-130		
ertiary-amyl methyl ether	0.0551	0.0050	mg/kg wet	0.05000	110	70-130		
etrachloroethene	0.0450	0.0050	mg/kg wet	0.05000	90	70-130		
etrahydrofuran	0.0374	0.0050	mg/kg wet	0.05000	75	70-130		
oluene	0.0447	0.0050	mg/kg wet	0.05000	89	70-130		
rans-1,2-Dichloroethene	0.0454	0.0050	mg/kg wet	0.05000	91	70-130		
rans-1,3-Dichloropropene	0.0424	0.0050	mg/kg wet	0.05000	85	70-130		
richloroethene	0.0442	0.0050	mg/kg wet	0.05000	88	70-130		
richlorofluoromethane	0.0511	0.0050	mg/kg wet	0.05000	102	70-130		
inyl Chloride	0.0368	0.0100	mg/kg wet	0.05000	74	70-130		
ylene O	0.0475	0.0050	mg/kg wet	0.05000	95	70-130		
ylene P,M	0.0946	0.0100	mg/kg wet	0.1000	95	70-130		
urrogate: 1,2-Dichloroethane-d4	0.0472		mg/kg wet	0.05000	94	70-130		
urrogate: 1,2-bichioloethane-u4 urrogate: 4-Bromofluorobenzene	0.0484		mg/kg wet	0.05000	97	70-130		
Surrogate: Dibromofluoromethane	0.0482		mg/kg wet	0.05000	96	70-130		
urrogate: Toluene-d8	0.0469		mg/kg wet	0.05000	94	70-130		
CS Dup								
1,1,2-Tetrachloroethane	0.0526	0.0050	mg/kg wet	0.05000	105	70-130	11	20
1,1-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000	99	70-130	11	20
1,2,2-Tetrachloroethane	0.0495	0.0020	mg/kg wet	0.05000	99	70-130	8	20
1,2-Trichloroethane	0.0460	0.0050	mg/kg wet	0.05000	92	70-130	8	20
1-Dichloroethane	0.0457	0.0050	mg/kg wet	0.05000	91	70-130	10	20
1-Dichloroethene	0.0488	0.0050	mg/kg wet	0.05000	98	70-130	9	20
1-Dichloropropene	0.0505	0.0050	mg/kg wet	0.05000	101	70-130	10	20
2,3-Trichlorobenzene	0.0509	0.0050	mg/kg wet	0.05000	102	70-130	12	20
2,3-Trichloropropane	0.0459	0.0050	mg/kg wet	0.05000	92	70-130	9	20
2,4-Trichlorobenzene	0.0505	0.0050	mg/kg wet	0.05000	101	70-130	10	20
2,4-Trimethylbenzene	0.0523	0.0050	mg/kg wet	0.05000	105	70-130	9	20
2-Dibromo-3-Chloropropane	0.0436	0.0050	mg/kg wet	0.05000	87	70-130	8	20
2-Dibromoethane	0.0527	0.0050	mg/kg wet	0.05000	105	70-130	12	20
.2-Dichlorobenzene	0.0520	0.0050	mg/kg wet	0.05000	103	70-130	6	20
.2-Dichloroethane	0.0490	0.0050	mg/kg wet	0.05000	98	70-130	9	20
2-Dichloropropane	0.0457	0.0050	mg/kg wet	0.05000	91	70-130	8	20
3,5-Trimethylbenzene	0.0505	0.0050	mg/kg wet	0.05000	101	70-130	8	20
3-Dichlorobenzene	0.0523	0.0050	mg/kg wet	0.05000	105	70-130	6	20
3-Dichloropropane	0.0512	0.0050	mg/kg wet	0.05000	103	70-130	12	20
4-Dichlorobenzene	0.0530	0.0050	mg/kg wet	0.05000	102	70-130	7	20
4-Dioxane	0.904	0.100	mg/kg wet	1.000	90	70-130	5	20
2-Dichloropropane	0.0528	0.0050	mg/kg wet	0.05000	106	70-130	8	20
Butanone	0.222	0.0100	mg/kg wet	0.2500	89	70-130	10	20
Chlorotoluene	0.0483	0.0100	mg/kg wet	0.05000	97	70-130	6	20
Hexanone	0.249	0.0030	mg/kg wet	0.2500	100	70-130	15	20
-Chlorotoluene	0.0489	0.0100	mg/kg wet	0.2500	98	70-130	7	20
CHICLOGRACIA	כטדט.ט	0.0000	mg/Ng WEL	3.03000	30	10 100	,	20

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

5035/8260B	Volatile	Organic	Compounds ,	/ Low	Level	
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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			
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The Microbiology Division of Thielsch Engineering, Inc.



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
	5035/8	3260B Volati	le Organic C	ompound	s / Low L	.evel				
atch 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			
Gurrogate: Toluene-d8	0.0485		mg/kg wet	0.05000		97	70-130			
Batch DC01938 - 5035										
lank										
,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
.,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
,1-Dichloroethane	ND	0.0050	mg/kg wet							
,1-Dichloroethene	ND	0.0050	mg/kg wet							
,1-Dichloropropene	ND	0.0050	mg/kg wet							
,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
.2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
,2-Dibromoethane	ND	0.0050	mg/kg wet							
,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
,2-Dichloroethane	ND	0.0050	mg/kg wet							
,2-Dichloropropane	ND	0.0050	mg/kg wet							
,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
,3-Dichloropropane	ND	0.0050	mg/kg wet							
,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
,4-Dioxane	ND	0.100	mg/kg wet							
,2-Dichloropropane	ND	0.0050	mg/kg wet							
-Butanone	ND	0.0100	mg/kg wet							
-Chlorotoluene	ND	0.0050	mg/kg wet							
-Hexanone	ND	0.0100	mg/kg wet							
-Chlorotoluene	ND	0.0050	mg/kg wet							
-Isopropyltoluene	ND	0.0050	mg/kg wet							
-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
cetone	ND	0.0100	mg/kg wet							
enzene	ND	0.0050	mg/kg wet							
romobenzene	ND	0.0050	mg/kg wet							
romochloromethane	ND	0.0050	mg/kg wet							
romodichloromethane	ND	0.0050	mg/kg wet							
romoform	ND	0.0050	mg/kg wet							
romomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
arbon Tetrachloride	ND	0.0050	mg/kg wet							
hlorobenzene	ND	0.0050	mg/kg wet							
Chloroothano	ND	0.0100	mg/kg wet							

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ND

Chloroethane

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mg/kg wet

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http://www.ESSLaboratory.com

0.0100



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

5035/8260B	Volatile	Organic	Compounds	s /	Low	Level
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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				
Sopropylbenzene	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				
ec-Butylbenzene	ND	0.0050	mg/kg wet				
ityrene	ND	0.0050	mg/kg wet				
ert-Butylbenzene	ND	0.0050	mg/kg wet				
ertiary-amyl methyl ether	ND	0.0050	mg/kg wet				
etrachloroethene	ND	0.0050	mg/kg wet				
etrahydrofuran	ND	0.0050	mg/kg wet				
oluene	ND	0.0050	mg/kg wet				
rans-1,2-Dichloroethene	ND	0.0050	mg/kg wet				
rans-1,3-Dichloropropene	ND	0.0050	mg/kg wet				
Frichloroethene	ND	0.0050	mg/kg wet				
Frichlorofluoromethane	ND	0.0050	mg/kg wet				
/inyl Chloride	ND	0.0100	mg/kg wet				
(ylene O	ND	0.0050	mg/kg wet				
(ylene P,M	ND	0.0100	mg/kg wet				
	0.0551	0.0100	mg/kg wet	0.05000	110	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.0492		mg/kg wet	0.05000	98	70-130 70-130	
Surrogate: 4-Bromofluorobenzene	0.0531		mg/kg wet	0.05000	106	70-130 70-130	
Surrogate: Dibromofluoromethane	0.0486		mg/kg wet	0.05000	97	70-130 70-130	
Surrogate: Toluene-d8	0.0400		mg/kg wet	0.03000		70-130	
.cs	0.0457	0.0050		0.05000		70.120	
1,1,1,2-Tetrachloroethane	0.0457	0.0050	mg/kg wet	0.05000	91	70-130	
.,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-Dichloroethane	0.0505	0.0050	mg/kg wet	0.05000	101	70-130	
.,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	

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Dependability

◆ Quality

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◆ Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

5035/8260B Volatile Organic Compounds / Low Le	5035/8260B	compounds / Low Le	mpounds / Low L	eve
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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

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Batch DC01938 - 5035

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

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 0.0496		mg/kg wet	0.05000	102 99	70-130 70-130			
Surrogate: Toluene-d8	0.0490		mg/kg wet	0.05000		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	
		0.0050	- -		99	70-130	3	20	

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CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

5035/8260B Volatile Organic Compounds / L	Low Level
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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	

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

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)

Part DC01701 2540C							
Batch DC01701 - 3540C							
Blank Aroclor 1016	ND	0.05	mg/kg wet				
	ND	0.05	-: -				
Aroclor 1016 [2C]	ND ND		mg/kg wet				
Aroclor 1221		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	<i>77</i>	30-150	
Surrogate: Decachlorobiphenyl [2C]	0.0184		mg/kg wet	0.02500	<i>74</i>	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	<i>86</i>	30-150	
	0.0207		mg/kg wet	0.02500	<i>83</i>	30-150	
Surrogate: Tetrachloro-m-xylene	0.0223		mg/kg wet	0.02500	<i>89</i>	30-150	

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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
		8082A Poly	chlorinated E	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	<i>30-150</i>			
Surrogate: Tetrachloro-m-xylene	0.0203		mg/kg wet	0.02500		81	<i>30-150</i>			
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		<i>79</i>	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0195		mg/kg wet	0.02500		<i>78</i>	<i>30-150</i>			
Surrogate: Tetrachloro-m-xylene	0.0179		mg/kg wet	0.02500		<i>72</i>	<i>30-150</i>			
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	<i>30-150</i>			
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			

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CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

8082A Polychlorinated Biphenyls (PCB)

0.4	0.05	mg/kg wet	0.5000	86	40-140	3	30	
0.4	0.05	mg/kg wet	0.5000	88	40-140	3	30	
0.4	0.05	mg/kg wet	0.5000	89	40-140	4	30	
0.4	0.05	mg/kg wet	0.5000	86	40-140	4	30	
0.0219		ma/ka wet	0.02500	87	30-150			
0.0211		mg/kg wet	0.02500	84	30-150			
0.0209		mg/kg wet	0.02500	84	30-150			
0.0230		mg/kg wet	0.02500	92	30-150			
	0.4 0.4 0.4 0.0219 0.0211 0.0209	0.4 0.05 0.4 0.05 0.4 0.05 0.0219 0.0211 0.0209	0.4 0.05 mg/kg wet 0.4 0.05 mg/kg wet 0.4 0.05 mg/kg wet 0.4 0.05 mg/kg wet 0.0219 mg/kg wet 0.0211 mg/kg wet 0.0209 mg/kg wet	0.4 0.05 mg/kg wet 0.5000 0.4 0.05 mg/kg wet 0.5000 0.4 0.05 mg/kg wet 0.5000 0.0219 mg/kg wet 0.02500 0.0211 mg/kg wet 0.02500 0.0209 mg/kg wet 0.02500	0.4 0.05 mg/kg wet 0.5000 88 0.4 0.05 mg/kg wet 0.5000 89 0.4 0.05 mg/kg wet 0.5000 86 0.0219 mg/kg wet 0.02500 87 0.0211 mg/kg wet 0.02500 84 0.0209 mg/kg wet 0.02500 84	0.4 0.05 mg/kg wet 0.5000 88 40-140 0.4 0.05 mg/kg wet 0.5000 89 40-140 0.4 0.05 mg/kg wet 0.5000 86 40-140 0.4 0.05 mg/kg wet 0.5000 86 30-150 0.0219 mg/kg wet 0.02500 87 30-150 0.0211 mg/kg wet 0.02500 84 30-150 0.0209 mg/kg wet 0.02500 84 30-150	0.4 0.05 mg/kg wet 0.5000 88 40-140 3 0.4 0.05 mg/kg wet 0.5000 89 40-140 4 0.4 0.05 mg/kg wet 0.5000 86 40-140 4 0.04 0.05 mg/kg wet 0.5000 87 30-150 0.0219 mg/kg wet 0.02500 84 30-150 0.0209 mg/kg wet 0.02500 84 30-150	0.4 0.05 mg/kg wet 0.5000 88 40-140 3 30 0.4 0.05 mg/kg wet 0.5000 89 40-140 4 30 0.4 0.05 mg/kg wet 0.5000 86 40-140 4 30 0.4 0.05 mg/kg wet 0.5000 86 40-140 4 30 0.0219 mg/kg wet 0.02500 87 30-150 0.0211 mg/kg wet 0.02500 87 30-150 0.0209 mg/kg wet 0.02500 87 30-150

8100M Total Petroleum Hydrocarbons

Batch DC02311 - 35	46
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
T: (020)	ND	0.0	

Triacontane (C30)	ND	0.2	mg/kg wet				
Surrogate: O-Terphenyl	5.11		mg/kg wet	5.000	102	40-140	
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	

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Dependability ♦ Quality

Fax: 401-461-4486

◆ Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Surrogate: O-Terphenyl

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8100M Tot	al Petroleum	Hydroca	rbons					
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			
Surrogate: O-Terphenyl	5.00		mg/kg wet	5.000		100	40-140			
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	
Fetracosane (C24)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Fetradecane (C14)	2.2	0.2	mg/kg wet	2.500		89	40-140	4	25	
Fotal Petroleum Hydrocarbons	33.2	10.0	mg/kg wet	35.00		95	40-140	4	25	
Friacontane (C30)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	

mg/kg wet 8270D Semi-Volatile Organic Compounds

5.000

101

40-140

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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5.07

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

ESS Laboratory Work Order: 20C0466 Client Project ID: Tombarello Site Investigation

Quality Control Data

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

atch DC01609 - 3546						
Chloroaniline	ND	0.167	mg/kg wet			
Nitrophenol	ND	1.67	mg/kg wet			
cenaphthene	ND	0.333	mg/kg wet			
cenaphthylene	ND	0.167	mg/kg wet			
etophenone 	ND	0.667	mg/kg wet			
iline	ND	1.67	mg/kg wet			
ıthracene	ND	0.333	mg/kg wet			
obenzene	ND	0.333	mg/kg wet			
enzo(a)anthracene	ND	0.333	mg/kg wet			
nzo(a)pyrene	ND	0.167	mg/kg wet			
nzo(b)fluoranthene	ND	0.333	mg/kg wet			
nzo(g,h,i)perylene	ND	0.333	mg/kg wet			
nzo(k)fluoranthene	ND	0.333	mg/kg wet			
(2-Chloroethoxy)methane	ND	0.333	mg/kg wet			
(2-Chloroethyl)ether	ND	0.090	mg/kg wet			
(2-chloroisopropyl)Ether	ND	0.089	mg/kg wet			
(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet			
cylbenzylphthalate	ND ND	0.333 0.167	mg/kg wet			
ysene enzo(a,h)Anthracene	ND ND	0.051	mg/kg wet mg/kg wet			
enzofuran	ND	0.333				
thylphthalate	ND ND	0.333	mg/kg wet mg/kg wet			
ethylphthalate	ND	0.333	mg/kg wet			
-butylphthalate	ND	0.333	mg/kg wet			
octylphthalate	ND	0.333	mg/kg wet			
ranthene	ND	0.333	mg/kg wet			
rene	ND	0.333	mg/kg wet			
achlorobenzene	ND	0.056	mg/kg wet			
achlorobutadiene	ND	0.333	mg/kg wet			
achloroethane	ND ND	0.084	mg/kg wet			
eno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet			
phorone	ND ND	0.333	mg/kg wet			
phorone	ND ND	0.333	mg/kg wet			
robenzene	ND	0.333	mg/kg wet			
litrosodimethylamine	ND	0.333	mg/kg wet			
ntachlorophenol	ND	0.667	mg/kg wet			
enanthrene	ND	0.333	mg/kg wet			
enol	ND	0.081	mg/kg wet			
ene	ND	0.333	mg/kg wet			
dine	ND	1.67	mg/kg wet			
	2.46	2.07	mg/kg wet	3.333	<i>74</i>	30-130
rogate: 1,2-Dichlorobenzene-d4	4.47		mg/kg wet	5.000	89	30-130
rrogate: 2,4,6-Tribromophenol	3.83		mg/kg wet	5.000	77	30-130
rrogate: 2-Chlorophenol-d4	2.50		mg/kg wet	3.333	77 75	30-130
rrogate: 2-Fluorobiphenyl rrogate: 2-Fluorophenol	3.66		mg/kg wet	5.000	73 73	30-130
rrogate. 2-1 lauroprienoi			mg/kg wet		79	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

Batch DC01609 - 3546							
Surrogate: Phenol-d6	3.82		mg/kg wet	5.000	<i>76</i>	30-130	
Surrogate: P-Terphenyl-d14	3.49		mg/kg wet	3.333	105	30-130	
.cs							
.,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	
,,3-Dichlorobenzene	2.39	0.080	mg/kg wet	3.333	72	40-140	
,4-Dichlorobenzene	2.37	0.084	mg/kg wet	3.333	71	40-140	
,4,5-Trichlorophenol	3.19	0.333	mg/kg wet	3.333	96	30-130	
,4,6-Trichlorophenol	3.06	0.082	mg/kg wet	3.333	92	30-130	
4-Dichlorophenol	2.78	0.083	mg/kg wet	3.333	84	30-130	
,4-Dimethylphenol	2.79	0.075	mg/kg wet	3.333	84	30-130	
,4-Dinitrophenol	4.22	0.557	mg/kg wet	3.333	126	30-130	
.4-Dinitrotoluene	3.59	0.107	mg/kg wet	3.333	108	40-140	
.6-Dinitrotoluene	3.08	0.333	mg/kg wet	3.333	92	40-140	
-Chloronaphthalene	2.53	0.333	mg/kg wet	3.333	76	40-140	
-Chlorophenol	2.55	0.094	mg/kg wet	3.333	77	30-130	
-Methylnaphthalene	2.52	0.072	mg/kg wet	3.333	76	40-140	
-Methylphenol	2.58	0.333	mg/kg wet	3.333	77	30-130	
-Nitrophenol	2.67	0.333	mg/kg wet	3.333	80	30-130	
3´-Dichlorobenzidine	2.71	0.167	mg/kg wet	3.333	81	40-140	
+4-Methylphenol	5.37	0.667	mg/kg wet	6.667	80	30-130	
-Bromophenyl-phenylether	3.18	0.333	mg/kg wet	3.333	95	40-140	
Chloroaniline	1.46	0.167	mg/kg wet	3.333	44	40-140	
Nitrophenol	3.44	1.67	mg/kg wet	3.333	103	30-130	
cenaphthene	2.70	0.333	mg/kg wet	3.333	81	40-140	
cenaphthylene	2.48	0.167	mg/kg wet	3.333	75	40-140	
cetophenone	2.41	0.667	mg/kg wet	3.333	72	40-140	
niline	1.74	1.67	mg/kg wet	3.333	52	40-140	
nthracene	3.17	0.333	mg/kg wet	3.333	95	40-140	
zobenzene	3.04	0.333	mg/kg wet	3.333	91	40-140	
enzo(a)anthracene	3.35	0.333	mg/kg wet	3.333	100	40-140	
enzo(a)pyrene	3.58	0.167	mg/kg wet	3.333	107	40-140	
enzo(b)fluoranthene	3.89	0.333	mg/kg wet	3.333	117	40-140	
enzo(g,h,i)perylene	3.45	0.333	mg/kg wet	3.333	104	40-140	
enzo(k)fluoranthene	2.94	0.333	mg/kg wet	3.333	88	40-140	
is(2-Chloroethoxy)methane	2.57	0.333	mg/kg wet	3.333	77	40-140	
is(2-Chloroethyl)ether	2.55	0.090	mg/kg wet	3.333	77	40-140	
is(2-chloroisopropyl)Ether	2.47	0.090	mg/kg wet	3.333	74	40-140	
s(2-Ethylhexyl)phthalate	3.62	0.333	mg/kg wet	3.333	109	40-140	
utylbenzylphthalate	3.60	0.333	mg/kg wet	3.333	109	40-140	
hrysene	3.32	0.333	mg/kg wet	3.333	100	40-140	
ii ysene ibenzo(a,h)Anthracene	3.70	0.051	mg/kg wet	3.333	111	40-140	
ibenzo(a,n)Antinacene ibenzofuran	2.77	0.333	mg/kg wet	3.333	83	40-140	
					95		
Diethylphthalate	3.18	0.333	mg/kg wet	3.333	33	40-140	

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

8270D Semi-Volatile	Organic	Compound	ls
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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		
Surrogate: 1,2-Dichlorobenzene-d4	2.49		mg/kg wet	3.333	<i>75</i>	30-130		
Surrogate: 2,4,6-Tribromophenol	5.39		mg/kg wet	5.000	108	30-130		
Surrogate: 2-Chlorophenol-d4	3.94		mg/kg wet	5.000	<i>79</i>	30-130		
Surrogate: 2-Fluorobiphenyl	2.67		mg/kg wet	3.333	80	30-130		
Surrogate: 2-Fluorophenol	3.78		mg/kg wet	5.000	76	30-130		
Surrogate: Nitrobenzene-d5	2.71		mg/kg wet	3.333	81	30-130		
Surrogate: Phenol-d6	3.98		mg/kg wet	5.000	80	30-130		
Surrogate: p-Terphenyl-d14	3.51		mg/kg wet	3.333	105	30-130		
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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2211 Tel: 401-461-7181

Dependability

◆ Quality

Fax: 401-461-4486

◆ Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

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

82/0D Semi-Volatile	e Organic (Compound	15
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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	<i>79</i>	30-130			

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Quality

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.

Client Project ID: Tombarello Site Investigation ESS Laboratory Work Order: 20C0466

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Analyte						70KLC	LIIIIIG	KFD	LIIIIL	Qualifiei
	8	8270D Semi-V	olatile Orga	anic Com	pounds					
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		<i>75</i>	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			
		Cla	ssical Chen	nistry						
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			



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



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.
TT	A 1 / 1 1 1 1 / 1 1 1 / 1 / 1 / 1 / 1 /

Analyte included in the analysis, but not detected U O 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

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference MDL Method Detection Limit MRL Method Reporting Limit LOD Limit of Detection LOQ Limit of Quantitation **Detection Limit** DL. 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

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

The Microbiology Division of Thielsch Engineering, Inc.



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:	2000466	
Shipped/Delivere	d Viet ESS Counter		Date Received:	3/13/2020	
Shipped/Delivere	d Via: ESS Courier		Project Due Date:	3/20/2020	<u></u>
			Days for Project:	5 Day	
Air bill manifest Air No.:	·	No	6. Does COC match bottles?		No
2. Were custody s	seals present?	No	7. Is COC complete and correct	t?	Yes
3. Is radiation cou	int <100 CPM?	Yes	8. Were samples received intac	ct?	Yes
4. Is a Cooler Pres	sent?	Yes	9. Were labs informed about	short holds & rushes?	(es /No / NA
Temp:3.		163	10. Were any analyses receive	ed outside of hold time?	Yes (No
5. Was COC signo	ed and dated by client?	Yes			
			<u>-</u>		
		No)	12. Were VOAs received? a. Air bubbles in aqueous VOA b. Does methanol cover soil co		Yes / No Yes / No Yes / No / NA
13. Are the sample a. If metals preser b. Low Level VOA	rved upon receipt:	Yes)/ No Date: Date: 3 //3/	Time:	Ву:	<u> </u>
Sample Receiving	Notes:				
		nel=1130: Lot1-DISP	02-Comp collection time coc=1130	label=0850	
				, 12001-0000	· · · · · · · · · · · · · · · · · · ·
a. Was there a ne	eed to contact Project Manager? ed to contact the client?	Yes)/ 1			
Who was contacted	d?	Date:	Time:	Ву:	<u></u>
	· · · · · · · · · · · · · · · · · · ·	 -			
			· · · · · · · · · · · · · · · · · · ·		

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?



ESS Laboratory Sample and Cooler Receipt Checklist

Client:	GEI Consultants, Inc TB	ESS Project ID:	20C0466	
	\sim \sim	Date Received:	3/13/2020	
Completed By:		Date & Time:3/3/20	2012	
Reviewed By:		Date & Time: 3 (3,720	2027	
Delivered By:		3/3/20	ون مراج	

Chain-of	-Custody l	Record			Labora	tory: ES	SS				Labo (Lab us		y Job	# 20	ر ک	746	do	
		, , , , , , , , , , , , , , , , , , ,		5 H. J. J.			Project I	nform	ation				· :				-: -	ا بد مد
		Project No.	me: Former	Tombare	llo			Proied	ct Loca	ıtion: L	awren	ce MA						Page \ of
		Project Na	me. romier	TOTTIDATE		**				ager: L								, -
l G	Consultants	Project Nu	mber: 18024	41			·		21.355°	_							7 3 7 3	
400 Unicos	rn Park Drive	Send Repo	rt to:	Elise Farr	rington			2	1			Prese	rvative			1		Sample Handling
	, MA 01801	Toolia riopo			J				_,		N						ŀ	
	1.721.4000	Send EDD	to: labdata@)geiconsu	iltants.con	า		MeOH	DI H20	None	None		land-					Samples Field Filtered
	.721.4073								1	<u> </u>	13.	Ana	lysis					
•	SUMPTIVE Y REQUIRED:		YES	NO		·	1. 1.			CRA 8 Metals**, Corrosivity, RCN/S		L.Lombardo 3/24/2020			ļ			YES NO NA
If Yes, Are MC	P Analytical Meth	nods Require	ed?	YES	NO	NA				Meta ivity,		L.Lon 3/24/2					ļ	Sampled Shipped With Ice
	nking Water Sam			YES	NO	NA		vel)	(el)	A 8 I					Ì		- 1	
•	ou Met Minimum			YES	NO	(NA)	VOC(High Level)	VOC (Low Level)	KCR		TPH (8100M)				ļ		(YES) NO
1 700, 11040 1	I I I I I I I I I I I I I I I I I I I		Collect					(High) j	abilit	*S	(8) H				ĺ		
Lab Sample Number	GEI Samp	nie ID	Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	\ 0 0	%	SVOCs, RCRA 8 Ignitability, Corro	PCBs*	TP						Sample Specific Remarks
Number	1802441-Lot1-DIS		3/12/2020	8:40	so	5	BRL	х	х	х	х	X						
1	1802441-Lot1-DIS		3/12/2020	8:50	so	3	BRL	х	_x									
4	1802441-Lot1-DIS		3/12/2020	11:30	so	2	BRL			х	х	X]			
	1302441-2011-010	2, 02, 00 mp	5		1													
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					+	 	 	1	†	1								
	-		 		<u> </u>				1	t^-	 		1					
				 	 	 	 	+	 	†		1	 					
MCP Laval N	eeded: GEI requi	ires the mos	t stringent Me	thod 1 M	CP standa	ard be me	et for all			To	urnaro	und Ti	ime		-			nitting rush
	never possible.						* .			<u>(E</u>	Busine	ss day	/s):			4		samples, you must
Relinquished by sar		Date :	Time:	Received by				4		Normal .		Ot	her	_				boratory to confirm F can be achieved.
1878hi-	7 ==	3/13/	1400	1/18	/pm]		10-Day		7-0)ay			unattr	IE IA	i cali de acilieved.
Relinquished by: (si	ghature)	Date ://	Time:	Received b	(signature)	212		<u></u>	5	-Day _	x		Day					
2. // ha///	han	3/13/20	1904	2.	ハク	13/2	<u> </u>		11.	A	dditio	nal R	equire	ments	/Com	ments	/Rem	arks:
Relinguished by: (si	ignature)	Date:	Time:	Received by					iual Sox ific QAP		raction	for PCE	s. Analy	/sis mus	t be per	tormed	in acco	rdance with GEI's Site
3.				3.	\			1										
Relinquished by: (si	ignature)	Date :	Time:	Received by	/: (signature)			**Ru	n TCLF	if 20x	Rule E	xceed	ed					
4.		1		4.				1										

Page 54 of 55

Chain-of	-Custody	Record			Labora	tory: ES	A Decision of the Control of the Con				Labo (Lab use	ratory e only)	/ Job	<i># 20</i>	<u>C0</u>	466	
Proj					Project	Information				ا ـ ا							
		Project Na	me: Former	Tombare	llo			Projec	t Loca	ition: L	awren	ce MA					Page \ of 6
		i i ojeci i i u				**				ager: L	. Lomi	ardo					
l G	Consultants	Project Nu	mber: 18024	41				339.22	1.355	i							
400 Unico	n Park Drive	Send Repo	rt to:	Elise Far	rington							Presei	rvative	· <u>·</u>			Sample Handling
	, MA 01801				_				B. 1.00	N				1			
	.721.4000	Send EDD	to: labdata@	geiconsu	ultants.com	1		меОН	DI H20	None	None	Ana	L lysis			- - 	Samples Field Filtered
	.721.4073	<u> </u>								<u> </u>	. 154	Alla	iysis	- 1		- 	⊣
	SUMPTIVE Y REQUIRED:		YES	NO		<u> </u>	14 14			Metals**, sivity, RCN/S							YES NO NA
If Yes, Are MC	P Analytical Meth	nods Require	ed?	(YES)	NO	NA			i	Corrosivity,				1		ļ	Sampled Shipped With Ice
If Yes, Are Drin	nking Water Sam	ples Submit	ted?	YES	NO	NA		(e	(el)						Ì		
	ou Met Minimum			YES	NO	(NA)	VOC(High Level)	VOC (Low Level)	RCRA ty, Corr			l Ì	ļ			(YES) NO
11 100, 11000			Collec					Ej.	Ę	SCs,	*s						
Lab Sample Number	GEI Samp	nie ID	Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	Š	00	SVOCs, RC	PCBs*		<u> </u>				Sample Specific Remarks
Number	1802441-Lot1-DIS		3/12/2020	8:40	so	5	BRL	х	х	х	х						
1	1802441-Lot1-DIS		3/12/2020	8:50	so	3	BRL	х	х								
 4	1802441-Lot1-DIS		3/12/2020	11:30	so	2	BRL			х	х						
	1002441-2011-210	31 02-00IIIP	0,12,2020		1	, -											
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MCP Laval N	eeded: GEI requ	ires the mos	I t stringent Ma	thod 1 M	I ICP standa	ard be me	t for all		 	Tu	ırnaro	und Ti	me	·			ubmitting rush
analytes wher										<u>(</u> E	usine	ss day	rs):	<u> </u>			nd samples, you must
Relinquished by san		Date :	Time:	Received to	-///			4	ı	Normal .		Otl	ner	_			laboratory to confirm AT can be achieved.
18 Pshi-	7 =	3/3/	1400	1//18	/pn				•	10-Day		7-0	ау) u	iat trie	AT can be achieved.
Relinquished by: (si	gnature)	Date :	Time:	Received b	(: (signature)	ماما		<u> </u>	5	-Day _	x		ay				
2.	In-	3/13/20	1904	2.	13	13/2	<u> </u>			A	dditic	nal R	equire	ments/	Comm	ents/Re	marks:
Relinguished by: (si	gnature)	Date:	Time:	Received b	(signature)				ual Sox fic QAP		action 1	or PCB	s. Analy	sis must l	be perfor	med in a	ccordance with GEI's Site
3.				3.	1			1									
Relinquished by: (si	gnature)	Date :	Time:	Received b	y: (signature)			**Rur	TCLF	if 20x	Rule E	xceede	ed				
4.		1		4.				1									

Page 55 of 55



ANALYTICAL REPORT

Lab Number: L1940717

Client: Credere 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

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

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

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



Project Name: 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
E9940797484	SB-2 (2-3)	SOIL	LAWRENCE, MA	09/04/19 10:07	09/06/19



Alpha			WM ราคา์เดเย ือ. 497552NH	Serial_No:09201912:30		
Sample ID	Client ID	Matrix	Location	Date/Time	Receive Date	
1940717-25	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	
Page 3 of 482 L1940717-52	E-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 13:26	09/06/19	

Alpha			W \รู่∃ักที่เราฝ ูo. 497552NH	Serial_No:09201912:30 Collection		
Sample ID	Client ID	Matrix	Location	Date/Time	Receive Date	
△ 1940717-53	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)	SØIL	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	
Page 4 of 482 J_1940717-80	C-07 (3-5)	SOIL	LAWRENCE, MA	09/05/19 08:35	09/06/19	

Alpha			WM ราคา์เรเน อ. 497552NH	Serial_No:09201912:30 Collection		
Sample ID	Client ID	Matrix	Location	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	
Page 5 of 482 L1940717-108	A-06 (3-5)	SOIL	LAWRENCE, MA	09/05/19 10:39	09/06/19	

Alpha			W ฟรีสกร์เลเย o. 497552NH	Serial_No:09201912:30 Collection		
Sample ID	Client ID	Matrix	Location	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	
Page 6 of 482 L 1940717-136	B-04 (5-7)	SOIL	LAWRENCE, MA	09/05/19 13:29	09/06/19	

Alpha			WM ร ส คที่เราไง o. 497552NH	Serial_No Collection	:09201912:30
Sample ID	Client ID	Matrix	Location	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 1 3:3 6	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

Serial_No:09201912:30

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Lab Number: L1940717

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.

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
В	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
С	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 res	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							
н	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO							
ı	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.



Serial No:09201912:30

L1940717

Lab Number:

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Report Date: 09/20/19

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.	



L1940717

Lab Number:

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Report Date: 09/20/19

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, -



L1940717

Lab Number:

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Report Date: 09/20/19

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 chloro-octadecane (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



L1940717

Lab Number:

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Report Date: 09/20/19

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.



Serial_No:09201912:30

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 **Report Date:** 09/20/19

L1940717

Lab Number:

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.

600, Senstrom Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 09/20/19



WM Profile No. 497552NH

QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

					Recovery/RPD		Associated	•
Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	(%)	(%)	Samples	Assessment
MCP Volati	le Organics by EPA 5035 High - Wes	tborough 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 Volati	le Organics by EPA 5035 Low - Wes	tborough 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 - Westboro	ough 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

					Recovery/RP	D QC Limits	Associated	Data Quality
Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	(%)	(%)	Samples	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 Polycl	hlorinated 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

					Recovery/RF		Associated	
Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	(%)	(%)	Samples	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

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RP (%)	D QC Limits (%)	Associated Samples	Data Quality Assessment
- Motified	Official ID (Native ID)	Lub ID	. Granicio.		(79)	(7-)		
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	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	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	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	potential low bias



QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

								Data Quality
Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	(%)	(%)	Samples	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	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	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

Madhad		Lak ID	Davameter	QC Type	Recovery/RPD QC L		Associated Samples	Data Quality Assessment
Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	(%)	%)	Samples	Assessment
							18,21,23- 24,27,44- 45,50,55- 56,101,105, 113,115,138 ,140	
6010D	Batch QC (L1940717-113)	WG1284380-7	Chromium, Total	MS	70 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	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	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	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

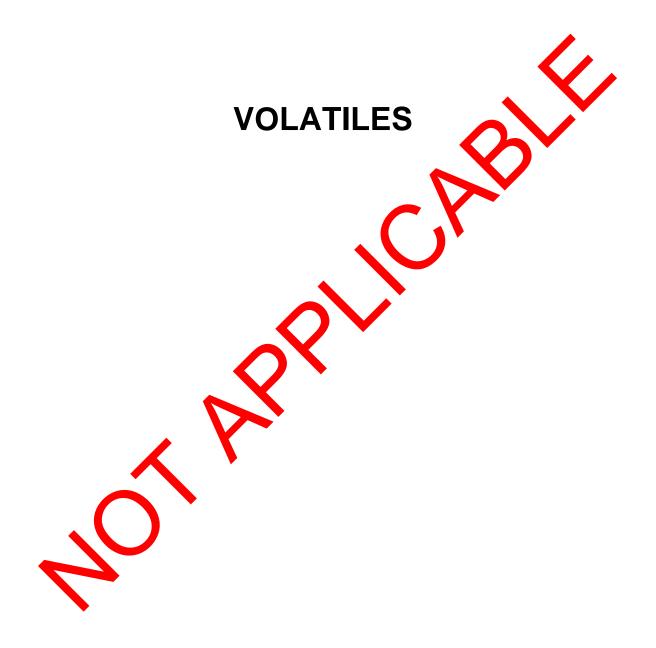
Lab Number: L1940717

					Recovery/RPD		Associated	
Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	(%)	(%)	Samples	Assessment
							45,50,55- 56,101,105, 113,115,138 ,140	
6010D	Batch QC (L1940717-113)	WG1284380-8	Zinc, Total	MSD	77	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	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







Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11 Client ID: SB-4 (1-2)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 20:33 Date Collected: 09/04/19 08:50 Date Received: 09/06/19 Field Prep: Not Specified

Analytical Date:	09/15/19 20:33						
Analyst:	NLK						
Percent Solids:	95%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Lo	w - Westboroug	h Lab				
Methylene chloride		ND		و/kg	3.7		1
1,1-Dichloroethane		ND		g/kg	0.74		1
Chloroform		ND		ug _/ .	1.1		1
Carbon tetrachloride		ND		u (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		4D		ug/kg	0.37		1
Chlorobenzene		ND		ug/kg	0.37		1
Trichlorofluoromethane		NL		ug/kg	3.0		1
1,2-Dichloroethane				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-Dichloropropen	e	ND		ug/kg	0.74		1
cis-1,3-Dichloropropene		ND		ug/kg	0.37		1
1,3-Dichloropropene, Tot	al	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-Tetrachloroe and		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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11 Client ID: SB-4 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 08:50 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 503	35 Low - Westborough	n 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		
1,4-Dichlorobenzene	ND		ug/kg	1.5		1
Methyl tert butyl ether	ND		ug/kg	1.5	-	1
p/m-Xylene	ND		ug/kg	- / 3		1
o-Xylene	ND		ug/kg	0.7		1
Xylenes, Total	ND		ug/kg	9.74		1
cis-1,2-Dichloroethene	ND		ug/kg	.14		1
1,2-Dichloroethene, Total	ND		y√kg	0.74		1
Dibromomethane	ND		g/kg	1.5		1
1,2,3-Trichloropropane	ND		ug,	1.5		1
Styrene	ND	_	t √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	10		ug/kg	7.4		1
Methyl isobutyl ketone	ND		ug/kg	7.4		1
2-Hexanone	NL		ug/kg	7.4		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11 Client ID: SB-4 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 08:50 Date Received: 09/06/19

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 503	35 Low - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.5		1	
Diethyl ether	ND		ug/kg	1.5	-	1	
Diisopropyl Ether	ND		ug/kg	18		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	30		1	

Surrogate	% Recovery Qu	Acceptance ualifier Criteria	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	106	70-130	
Dibromofluoromethane	98	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12 Client ID: SB-4 (2-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Project Name:

Sample Depth:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 19:20 Date Collected: 09/04/19 08:40 Date Received: 09/06/19 Field Prep: Not Specified

Analytical Date:	09/15/19 19:20						
Analyst:	NLK						
Percent Solids:	93%						
					~		,
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Hig	gh - Westboroug	gh Lab				
Methylene chloride		ND		ي/kg	260		1
1,1-Dichloroethane		ND		g/kg	52		1
Chloroform		ND		ug/.	78		1
Carbon tetrachloride		ND	_	u (kg	52		1
1,2-Dichloropropane		ND		ng/kg	52		1
Dibromochloromethane		ND		ug/kg	52		1
1,1,2-Trichloroethane		ND		ug/kg	52		1
Tetrachloroethene		40		ug/kg	26		1
Chlorobenzene		ND		ug/kg	26		1
Trichlorofluoromethane		NL		ug/kg	210		1
1,2-Dichloroethane				ug/kg	52		1
1,1,1-Trichloroethane	<u> </u>	ND		ug/kg	26		1
Bromodichloromethane		ND		ug/kg	26		1
trans-1,3-Dichloropropene	e	ND		ug/kg	52		1
cis-1,3-Dichloropropene		ND		ug/kg	26		1
1,3-Dichloropropene, Tota	al	ND		ug/kg	26		1
1,1-Dichloropropene		ND		ug/kg	26		1
Bromoform		ND		ug/kg	210		1
1,1,2,2-Tetrachloro		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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12 Client ID: SB-4 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 08:40
Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High	gh - Westboroug	h Lab				
Trichloroethene	100		ug/kg	26		1
1,2-Dichlorobenzene	ND		ug/kg	100		1
1,3-Dichlorobenzene	ND		ug/kg	100		
1,4-Dichlorobenzene	ND		ug/kg	100		1
Methyl tert butyl ether	ND		ug/kg	100	-	1
p/m-Xylene	ND		ug/kg	1 0		1
o-Xylene	ND		ug/kg	52		1
Xylenes, Total	ND		ug/kg	52		1
cis-1,2-Dichloroethene	ND		ug/kg	<i>s</i> 2		1
1,2-Dichloroethene, Total	ND		₃/kg	52		1
Dibromomethane	ND		g/kg	100		1
1,2,3-Trichloropropane	ND		ug	100		1
Styrene	ND	_	ℓ /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	,D		ug/kg	520		1
Methyl isobutyl ketone	ND		ug/kg	520		1
2-Hexanone	NL		ug/kg	520		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12 Client ID: SB-4 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 08:40 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 50	35 High - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	100		1	
Diethyl ether	ND		ug/kg	100	-	1	
Diisopropyl Ether	ND		ug/kg	1 0	—	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	Acceptance 9 Recovery Qualifier Criteria
1,2-Dichloroethane-d4	101 70-130
Toluene-d8	701 70-130
4-Bromofluorobenzene	97 70-130
Dibromofluoromethane	92 70-130



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15 Client ID: SB-4 (5-7)-2

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:10 Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/14/19 13:27

Analyst: KJD Percent Solids: 75% Parameter Result Qualifier Units RL JobL Dilution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Lab Westborough Lab Westborough Lab Vestborough Lab Vestborough Lab Vestborough Lab 1.9 mode of the Mark Lab 1.9 mode of the Mark Lab 1.9 mode of the Mark Lab 1.1 mode of the Mark La	Analytical Date:	09/14/19 13:27						
Parameter Result Qualifier Units RL Dilution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Leb ND 9 kg 6.2 1 Methylene chloride ND 9 kg 1.2 1 1,1-Dichlorochtane ND 10 kg 1.2 1 Chloroform ND 10 kg 1.2 1 Chlorochtomethane ND 10 kg 1.2 1 1,2-Dichloropropane ND 10 kg 1.2 1 1,2-Dichlorochtane ND 10 kg 1.2 1 1,1-2-Tichlorochtane ND 10 kg 1.2 1 1,1-2-Tichlorochtane ND 10 kg 0.2 1 1,1-2-Tichlorochtane ND 10 kg 0.2 1 1,1-1-Tichlorochtane ND 10 kg 0.2 1 1,1-1-Tichlorochtane ND 10 kg	Analyst:	KJD						
Parameter Result Qualifier Units RL Dilution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Leb ND 9 kg 6.2 1 Methylene chloride ND 9 kg 1.2 1 1,1-Dichlorochtane ND 10 kg 1.2 1 Chloroform ND 10 kg 1.2 1 Chlorochtomethane ND 10 kg 1.2 1 1,2-Dichloropropane ND 10 kg 1.2 1 1,2-Dichlorochtane ND 10 kg 1.2 1 1,1-2-Tichlorochtane ND 10 kg 1.2 1 1,1-2-Tichlorochtane ND 10 kg 0.2 1 1,1-2-Tichlorochtane ND 10 kg 0.2 1 1,1-1-Tichlorochtane ND 10 kg 0.2 1 1,1-1-Tichlorochtane ND 10 kg	Percent Solids:	75%						
Parameter Result Qualifier Units RL Dilution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Leb ND 9 kg 6.2 1 Methylene chloride ND 9 kg 1.2 1 1,1-Dichlorochtane ND 10 kg 1.2 1 Chloroform ND 10 kg 1.2 1 Chlorochtomethane ND 10 kg 1.2 1 1,2-Dichloropropane ND 10 kg 1.2 1 1,2-Dichlorochtane ND 10 kg 1.2 1 1,1-2-Tichlorochtane ND 10 kg 1.2 1 1,1-2-Tichlorochtane ND 10 kg 0.2 1 1,1-2-Tichlorochtane ND 10 kg 0.2 1 1,1-1-Tichlorochtane ND 10 kg 0.2 1 1,1-1-Tichlorochtane ND 10 kg								
Parameter Result Qualifier Units RL Dilution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Leb ND 9 kg 6.2 1 Methylene chloride ND 9 kg 1.2 1 1,1-Dichlorochtane ND 10 kg 1.2 1 Chloroform ND 10 kg 1.2 1 Chlorochtomethane ND 10 kg 1.2 1 1,2-Dichloropropane ND 10 kg 1.2 1 1,2-Dichlorochtane ND 10 kg 1.2 1 1,1-2-Tichlorochtane ND 10 kg 1.2 1 1,1-2-Tichlorochtane ND 10 kg 0.2 1 1,1-2-Tichlorochtane ND 10 kg 0.2 1 1,1-1-Tichlorochtane ND 10 kg 0.2 1 1,1-1-Tichlorochtane ND 10 kg						•		
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Methylene chloride ND 3/kg 6.2 1 1,1-Dichloroerhane ND 10/kg 1.2 1 Chloroform ND 10/kg 1.2 1 Carbon ettrachloride ND 10/kg 1.2 1 Carbon ettrachlorographa ND 10/kg 1.2 1 Dibromochloromethane ND 10/kg 1.2 1 1,1,2-Trichloroethane ND 10/kg 1.2 1 1,1,2-Trichloroethane ND 10/kg 0.62 1 1,1-Erichloroethane ND 10/kg 0.62 1 1,1-Trichloroethane ND 10/kg 0.62 1 1,2-Dichloroethane ND 10/kg 0.62 1 Bromodichloromethane ND 10/kg 0.62 1 1-1,1-Trichloroetha								
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Methylene chloride ND 3/kg 6.2 1 1,1-Dichloroerhane ND 10/kg 1.2 1 Chloroform ND 10/kg 1.2 1 Carbon ettrachloride ND 10/kg 1.2 1 Carbon ettrachlorographa ND 10/kg 1.2 1 Dibromochloromethane ND 10/kg 1.2 1 1,1,2-Trichloroethane ND 10/kg 1.2 1 1,1,2-Trichloroethane ND 10/kg 0.62 1 1,1-Erichloroethane ND 10/kg 0.62 1 1,1-Trichloroethane ND 10/kg 0.62 1 1,2-Dichloroethane ND 10/kg 0.62 1 Bromodichloromethane ND 10/kg 0.62 1 1-1,1-Trichloroetha								
Methylene chloride ND J/Kg 6.2 1 1,1-Dichloroothane ND ty/kg 1.2 1 Chloroform ND ty/kg 1.9 1 Carbon tetrachloride ND ty/kg 1.2 1 1,2-Dichloropropane ND ty/kg 1.2 1 Dibromochloromethane ND ty/kg 1.2 1 Tichlorochtane ND ty/kg 1.2 1 Tetrachlorochtane ND ty/kg 1.2 1 Chlorobenzene ND ty/kg 0.62 1 Trichlorochtane ND ty/kg 0.62 1 Tichlorofloromethane ND ty/kg 0.62 1 Tithlorochtane ND ty/kg 0.62 1 tetras-1,3-Dichloropropene ND ty/kg 0.62 1 </td <td>Parameter</td> <td></td> <td>Result</td> <td>Qualifier</td> <td>Units</td> <td>RL</td> <td>MDL</td> <td>Dilution Factor</td>	Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
1,1-Dichloroethane ND ugk 1,9 - 1 Chloroform ND ugk 1,9 - 1 Carbon letrachloride ND ugkg 1,2 - 1 L-2-Dichloropropane ND ugkg 1,2 - 1 Dibromochloromethane ND ugkg 1,2 - 1 1,1,2-Trichloroethane ND ugkg 1,2 - 1 1,1,2-Trichloroethane ND ugkg 0,62 - 1 Chlorobenzene ND ugkg 0,62 - 1 Trichlorofluoromethane ND ugkg 0,62 - 1 Trichloroethane ND ugkg 0,62 - 1 Trichloroethane ND ugkg 0,62 - 1 Bromodichloromethane ND ugkg 0,62 - 1 trans-1,3-Dichloropropene ND ugkg 0,62 - 1 <t< td=""><td>MCP Volatile Orga</td><td>nics by EPA 5035 Lov</td><td>v - Westborougl</td><td>h Lab</td><td></td><td></td><td></td><td></td></t<>	MCP Volatile Orga	nics by EPA 5035 Lov	v - Westborougl	h Lab				
1,1-Dichloroethane ND ugk 1,9 - 1 Chloroform ND ugk 1,9 - 1 Carbon letrachloride ND ugkg 1,2 - 1 L-2-Dichloropropane ND ugkg 1,2 - 1 Dibromochloromethane ND ugkg 1,2 - 1 1,1,2-Trichloroethane ND ugkg 1,2 - 1 1,1,2-Trichloroethane ND ugkg 0,62 - 1 Chlorobenzene ND ugkg 0,62 - 1 Trichlorofluoromethane ND ugkg 0,62 - 1 Trichloroethane ND ugkg 0,62 - 1 Trichloroethane ND ugkg 0,62 - 1 Bromodichloromethane ND ugkg 0,62 - 1 trans-1,3-Dichloropropene ND ugkg 0,62 - 1 <t< td=""><td>Methylene chloride</td><td></td><td>ND</td><td></td><td>4/kg</td><td>6.2</td><td></td><td>1</td></t<>	Methylene chloride		ND		4/kg	6.2		1
Chloroform ND ugh 1.9 - 1 Carbon tetrachloride ND takg 1.2 1 1,2-Dichloropropane ND ug/kg 1.2 1 Dibromochloromethane ND ug/kg 1.2 1 1,12-Trichloroethane ND ug/kg 1.2 1 1,12-Trichloroethane ND ug/kg 0.62 1 Chlorobenzene ND ug/kg 0.62 1 Trichlorofluoromethane NB ug/kg 5.0 1 1,2-Dichloroethane ND ug/kg 0.62 1 8 monotichloromethane ND ug/kg 0.62	1,1-Dichloroethane		ND			1.2		1
Carbon tetrachloride ND NRg 1.2 1 1,2-Dichloropropane ND 1g/kg 1.2 1 Dibromochloromethane ND 1g/kg 1.2 1 1,1,2-Trichloroethane ND 1g/kg 1.2 1 1,1,2-Trichloroethane ND 1g/kg 1.2 1 Chloroberane ND 1g/kg 0.62 1 Trichlorofluoromethane ND 1g/kg 5.0 1 1,2-Dichloroethane ND 1g/kg 0.62 1 1,1-Trichloroethane ND 1g/kg 0.62 1 Bromodichloromethane ND 1g/kg 0.62 1 Bromodichloromethane ND 1g/kg 0.62 1 Itans-1,3-Dichloropropene ND 1g/kg 0.62 1 1,1-Dichloropropene, Total ND 1g/kg 0.62	Chloroform		ND			1.9		1
1.2-Dichloropropane ND 1.9/kg 1.2 1 Dibromochloromethane ND ug/kg 1.2 1 1,1,2-Trichloroethane ND ug/kg 1.2 1 Tetrachloroethane ND ug/kg 0.62 1 Chloroethane ND ug/kg 5.0 1 Trichlorofluoromethane NB ug/kg 5.0 1 1,2-Dichloroethane ND ug/kg 0.62 1 1,1-Trichloroethane ND ug/kg 0.62 1 Bromodichloromethane ND ug/kg 0.62 1 Bromodichloromethane ND ug/kg 0.62 1 trans-1,3-Dichloropropene ND ug/kg 0.62 1 trans-1,3-Dichloropropene, Total ND ug/kg 0.62 1 1,1-Dichloropropene ND ug/kg 0.62	Carbon tetrachloride		ND			1.2		1
Dibromochloromethane ND ug/kg 1.2 1 1,1,2-Trichloroethane ND ug/kg 1.2 1 Tetrachloroethane ND ug/kg 0.62 1 Chloroenzene ND ug/kg 5.0 1 Trichlorothane ND ug/kg 5.0 1 1,2-Dichloroethane ND ug/kg 5.0 1 1,1,1-Trichloroethane ND ug/kg 0.62 1 8 promodichloromethane ND ug/kg 0.62 1 1,3-Dichloropropene ND ug/kg 0.62 1 1,3-Dichloropropene, Total ND ug/kg 5.0 <t< td=""><td>1,2-Dichloropropane</td><td></td><td>ND</td><td></td><td></td><td>1.2</td><td></td><td>1</td></t<>	1,2-Dichloropropane		ND			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 NB ug/kg 5.0 1 1,2-Dichloroethane ND ug/kg 0.62 1 1,1,1-Trichloroethane ND ug/kg 0.62 1 Bromodichloromethane ND ug/kg 0.62 1 Bromodichloropropene ND ug/kg 0.62 1 trans-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 Bromodorm ND ug/kg 0.62 1 Toluene ND ug/kg 0.62	Dibromochloromethane		ND			1.2		1
Tetrachloroethene ND ug/kg 0.62 1 Chlorobenzene ND ug/kg 0.62 1 Trichlorofluoromethane NB ug/kg 5.0 1 1,2-Dichloroethane Ug/kg 1.2 1 1,1,1-Trichloroethane ND ug/kg 0.62 1 Bromodichloromethane ND ug/kg 0.62 1 Bromodichloropropene ND ug/kg 0.62 1 trans-1,3-Dichloropropene ND ug/kg 0.62 1 1,3-Dichloropropene ND ug/kg 0.62 1 1,1-Dichloropropene, Total ND ug/kg 0.62 1 Bromoform ND ug/kg 0.62 1 1,1,2,2-Tetrachlorostane ND ug/kg 0.62 1 Ethylbenzene ND ug/kg 1.2 1 <td>1,1,2-Trichloroethane</td> <td></td> <td>ND</td> <td></td> <td>•</td> <td>1.2</td> <td></td> <td>1</td>	1,1,2-Trichloroethane		ND		•	1.2		1
Trichlorofluoromethane NE ug/kg 5.0 1 1,2-Dichloroethane ug/kg 1.2 1 1,1,1-Trichloroethane ND ug/kg 0.62 1 Bromodichloromethane ND ug/kg 0.62 1 Bromodichloropropene ND ug/kg 1.2 1 cis-1,3-Dichloropropene ND ug/kg 0.62 1 1,3-Dichloropropene ND ug/kg 0.62 1 1,3-Dichloropropene ND ug/kg 0.62 1 1,1-Dichloropropene ND ug/kg 0.62 1 Bromoform ND ug/kg 0.62 1 1,1,2,2-Tetrachloroscane ND ug/kg 0.62 1 Benzene ND ug/kg 1.2 1 Toluene ND ug/kg 1.2 1	Tetrachloroethene		(D)			0.62		1
1,2-Dichloroethane ug/kg 1,2 1 1,1,1-Trichloroethane ND ug/kg 0.62 1 Bromodichloromethane ND ug/kg 0.62 1 Bromodichloropropene ND ug/kg 1.2 1 cis-1,3-Dichloropropene ND ug/kg 0.62 1 1,3-Dichloropropene ND ug/kg 0.62 1 1,3-Dichloropropene ND ug/kg 0.62 1 1,1-Dichloropropene ND ug/kg 0.62 1 1,1-Dichloropropene ND ug/kg 0.62 1 Bromoform ND ug/kg 0.62 1 Bromoform ND ug/kg 0.62 1 Toluene ND ug/kg 1.2 1 Ethylbenzene ND ug/kg 1.2 1 <td< td=""><td>Chlorobenzene</td><td></td><td>ND</td><td>•</td><td>ug/kg</td><td>0.62</td><td></td><td>1</td></td<>	Chlorobenzene		ND	•	ug/kg	0.62		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 5.0 1 Bromoform ND ug/kg 5.0 1 1,1,2,2-Tetrachloros rane ND ug/kg 0.62 1 Benzene ND ug/kg 0.62 1 Toluene ND ug/kg 1.2 1 Ethylbenzene ND ug/kg 5.0 1 Chloromethane ND ug/kg 5.0 1 Vinyl chloride ND ug/kg 2.5 1 <td>Trichlorofluoromethane</td> <td>,</td> <td>NL</td> <td></td> <td>ug/kg</td> <td>5.0</td> <td></td> <td>1</td>	Trichlorofluoromethane	,	NL		ug/kg	5.0		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 5.0 1 Bromoform ND ug/kg 5.0 1 1,1,2,2-Tetrachlorosciane 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 Sromomethane ND ug/kg 2.5 1 Vinyl chloride ND ug/kg 2.5 1 <tr< td=""><td>1,2-Dichloroethane</td><td></td><td></td><td></td><td>ug/kg</td><td>1.2</td><td></td><td>1</td></tr<>	1,2-Dichloroethane				ug/kg	1.2		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-Tetrachloros ane 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 2.5 1 Chloroethane ND ug/kg 2.5 1	1,1,1-Trichloroethane	<u> </u>	ND		ug/kg	0.62		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-Tetrachloroc ane 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 2.5 1 Chloroethane ND ug/kg 2.5 1 1,1-Dichloroethene ND ug/kg 1.2 1	Bromodichloromethane		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-Tetrachloroce ane 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 5.0 1 Vinyl chloride ND ug/kg 2.5 1 Chloroethane ND ug/kg 2.5 1 1,1-Dichloroethene ND ug/kg 1.2 1 1,1-Dichloroethene ND ug/kg 1.2 1	trans-1,3-Dichloropropen	e	ND		ug/kg	1.2		1
1,1-Dichloropropene ND ug/kg 0.62 1 Bromoform ND ug/kg 5.0 1 1,1,2,2-Tetrachloros ane 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	cis-1,3-Dichloropropene		ND		ug/kg	0.62		1
Bromoform ND ug/kg 5.0 1 1,1,2,2-Tetrachlorock ane 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	1,3-Dichloropropene, Tot	al	ND		ug/kg	0.62		1
1,1,2,2-Tetrachloros ane 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	1,1-Dichloropropene		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	Bromoform		ND		ug/kg	5.0		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	1,1,2,2-Tetrachloroe and	e	ND		ug/kg	0.62		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	Benzene		ND		ug/kg	0.62		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	Toluene		ND		ug/kg	1.2		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	Ethylbenzene		ND		ug/kg	1.2		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	Chloromethane		ND		ug/kg	5.0		1
Chloroethane ND ug/kg 2.5 1 1,1-Dichloroethene ND ug/kg 1.2 1	Bromomethane		ND		ug/kg	2.5		1
1,1-Dichloroethene ND ug/kg 1.2 1	Vinyl chloride		ND		ug/kg	1.2		1
	Chloroethane		ND		ug/kg	2.5		1
trans-1,2-Dichloroethene ND ug/kg 1.9 1	1,1-Dichloroethene		ND		ug/kg	1.2		1
	trans-1,2-Dichloroethene		ND		ug/kg	1.9		1

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Project Number: 17001426

TOMBARELLO SITE

LAWRENCE, MA

L1940717-15 Date Collected: SB-4 (5-7)-2 Date Received:

Date Received: 09/06/19
Field Prep: Not Specified

09/04/19 09:10

Sample Depth:

Sample Location:

Project Name:

Lab ID:

Client ID:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035						
Wor Volatile Organics by El A 3000	Low Westbolodg	П Сар				
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	7.5		1
o-Xylene	ND		ug/kg	1.∠		1
Xylenes, Total	ND		ug/kg	1.2		1
cis-1,2-Dichloroethene	ND		ug/kg	2		1
1,2-Dichloroethene, Total	ND		J/kg	1.2		1
Dibromomethane	ND		g/kg	2.5		1
1,2,3-Trichloropropane	ND		ug/	2.5		1
Styrene	ND	_	ℓ (kg	1.2		1
Dichlorodifluoromethane	ND		ug/kg	12		1
Acetone	480	P ■	ug/kg	12		1
Carbon disulfide	ND		ug/kg	12		1
Methyl ethyl ketone	,D		ug/kg	12		1
Methyl isobutyl ketone	ND		ug/kg	12		1
2-Hexanone	NL		ug/kg	12		1
Bromochloromethane			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-lsopropyltoluene	ND		ug/kg	1.2		1
Naphthalene	ND		ug/kg	5.0		1
n-Propylbenzene	ND		ug/kg	1.2		1



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:10

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5	035 Low - Westborough	n 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	7.5		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	J 9		1	

Surrogate	% Recovery Qua	Acceptance alifier Criteria	
1,2-Dichloroethane-d4	128	70-130	
Toluene-d8	92	70-130	
4-Bromofluorobenzene	91	70-130	
Dibromofluoromethane	109	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15 Client ID: SB-4 (5-7)-2

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 17:18 Date Collected: 09/04/19 09:10 Date Received: 09/06/19 Field Prep: Not Specified

Analytical Date:	09/15/19 17:18						
Analyst:	NLK						
Percent Solids:	75%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Hig	h - Westboroug	jh Lab				
Methylene chloride		ND		ي/kg	610		1
1,1-Dichloroethane		ND		g/kg	120		1
Chloroform		ND		ug/.	180		1
Carbon tetrachloride		ND		u (kg	120		1
1,2-Dichloropropane		ND		ng/kg	120		1
Dibromochloromethane		ND		ug/kg	120		1
1,1,2-Trichloroethane		ND		ug/kg	120		1
Tetrachloroethene		ار		ug/kg	61		1
Chlorobenzene		ND		ug/kg	61		1
Trichlorofluoromethane		NL		ug/kg	490		1
1,2-Dichloroethane				ug/kg	120		1
1,1,1-Trichloroethane		ND		ug/kg	61		1
Bromodichloromethane		ND		ug/kg	61		1
trans-1,3-Dichloropropen	e	ND		ug/kg	120		1
cis-1,3-Dichloropropene		ND		ug/kg	61		1
1,3-Dichloropropene, Tot	al	ND		ug/kg	61		1
1,1-Dichloropropene		ND		ug/kg	61		1
Bromoform		ND		ug/kg	490		1
1,1,2,2-Tetrachloroe and	e	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

Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:10

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High -	Westboroug	h 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	20		1
o-Xylene	ND		ug/kg	12.		1
Xylenes, Total	ND		ug/kg	120		1
cis-1,2-Dichloroethene	ND		ug/kg	20		1
1,2-Dichloroethene, Total	ND		y ₄/kg	120		1
Dibromomethane	ND		g/kg	240		1
1,2,3-Trichloropropane	ND		ug.	240		1
Styrene	ND	_	u (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	.0		ug/kg	1200		1
Methyl isobutyl ketone	ND		ug/kg	1200		1
2-Hexanone	NL		ug/kg	1200		1
Bromochloromethane			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



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:10

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 503	35 High - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	240		1	
Diethyl ether	ND		ug/kg	240	-	1	
Diisopropyl Ether	ND		ug/kg	2.0	—	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	.00		1	

Surrogate	% Recovery Qua	Acceptance alifier Criteria	
1,2-Dichloroethane-d4	128	70-130	
Toluene-d8	89	70-130	
4-Bromofluorobenzene	88	70-130	
Dibromofluoromethane	106	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17 Client ID: SB-3 (1-2)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:25 Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/14/19 13:53

Analytical Date:	09/14/19 13:53						
Analyst:	KJD						
Percent Solids:	94%						
Parameter		Result	Qualifier	Units	RI	MDL	Dilution Factor
	nics by EPA 5035 Lov			Onits		WIDE	Direction 1 dotor
Wor Volatile Organ	TIICS DY ET A 3033 EO	v - vvesiboroug	II Lab				
Methylene chloride		ND		g/kg	3.7		1
1,1-Dichloroethane		ND		g/kg	0.74		1
Chloroform		ND		ug _/ .	1.1		1
Carbon tetrachloride		ND	<u> </u>	u (kg	0.74		1
1,2-Dichloropropane		ND		ng/kg	0.74		1
Dibromochloromethane		ND		ug/kg	0.74		1
1,1,2-Trichloroethane		ND		ug/kg	0.74		1
Tetrachloroethene		14		ug/kg	0.37		1
Chlorobenzene		ND		ug/kg	0.37		1
Trichlorofluoromethane		NL		ug/kg	2.9		1
1,2-Dichloroethane				ug/kg	0.74		1
1,1,1-Trichloroethane	<u> </u>	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, Tota	al	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-Tetrachloroe and		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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17 Client ID: SB-3 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:25 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 503	35 Low - Westborough	n 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		
1,4-Dichlorobenzene	ND		ug/kg	1.5		1
Methyl tert butyl ether	ND		ug/kg	1.5	-	1
p/m-Xylene	ND		ug/kg	- 3		1
o-Xylene	ND		ug/kg	0.7		1
Xylenes, Total	ND		ug/kg	0.74		1
cis-1,2-Dichloroethene	1.4		ug/kg	.14		1
1,2-Dichloroethene, Total	1.4		kg/kg	0.74		1
Dibromomethane	ND		g/kg	1.5		1
1,2,3-Trichloropropane	ND		ug,	1.5		1
Styrene	ND	_	ι ∕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	.0		ug/kg	7.4		1
Methyl isobutyl ketone	ND		ug/kg	7.4		1
2-Hexanone	NL		ug/kg	7.4		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17 Client ID: SB-3 (1-2)

Sample Location: LAWRENCE, MA

17001426

TOMBARELLO SITE

Date Collected: 09/04/19 09:25

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5035 L	ow - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.5		1	
Diethyl ether	ND		ug/kg	1.5	·	1	
Diisopropyl Ether	ND		ug/kg	18		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	9		1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	130	70-130	
Toluene-d8	92	70-130	
4-Bromofluorobenzene	96	70-130	
Dibromofluoromethane	110	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18 Client ID: SB-3 (2-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C 09/16/19 09:45 Analytical Date:

Date Collected: 09/04/19 09:30 Date Received: 09/06/19 Field Prep: Not Specified

Analytical Date:	09/16/19 09:45						
Analyst:	JC						
Percent Solids:	95%						
						V	
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organ	nics by EPA 5035 Lov	w - Westboroug	h Lab	•			
Methylene chloride		ND		J/kg	3.6		1
1,1-Dichloroethane		ND		g/kg	0.72		1
Chloroform		ND		ug _n .	1.1		1
Carbon tetrachloride		ND		u (kg	0.72		1
1,2-Dichloropropane		ND		ng/kg	0.72		1
Dibromochloromethane		ND		ug/kg	0.72		1
1,1,2-Trichloroethane		ND_		ug/kg	0.72		1
Tetrachloroethene		J.8		ug/kg	0.36		1
Chlorobenzene		ND		ug/kg	0.36		1
Trichlorofluoromethane		NL		ug/kg	2.9		1
1,2-Dichloroethane				ug/kg	0.72		1
1,1,1-Trichloroethane	<u> </u>	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, Tota	al	ND		ug/kg	0.36		1
1,1-Dichloropropene		ND		ug/kg	0.36		1
Bromoform		ND		ug/kg	2.9		1
1,1,2,2-Tetrachloro		ND		ug/kg	0.36		1
Benzene		ND		ug/kg	0.36		1
Toluene	<u> </u>	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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18
Client ID: SB-3 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:30
Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low -	Westborough	n 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		
1,4-Dichlorobenzene	ND		ug/kg	1.4		1
Methyl tert butyl ether	ND		ug/kg	1.4	-	1
p/m-Xylene	ND		ug/kg			1
o-Xylene	ND		ug/kg	0.7.	·	1
Xylenes, Total	ND		ug/kg	9.72		1
cis-1,2-Dichloroethene	ND		ug/kg	.12		1
1,2-Dichloroethene, Total	ND		y∕kg	0.72		1
Dibromomethane	ND		g/kg	1.4		1
1,2,3-Trichloropropane	ND		ug	1.4		1
Styrene	ND	<u> </u>	u (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	0		ug/kg	7.2		1
Methyl isobutyl ketone	ND		ug/kg	7.2		1
2-Hexanone	NL		ug/kg	7.2		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18 Client ID: SB-3 (2-3) Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:30 Date Received: 09/06/19

Field Prep:

Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5	035 Low - Westborougl	n 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.4		1	
Diethyl ether	ND		ug/kg	1.4	-	1	
Diisopropyl Ether	ND		ug/kg			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	8		1	

Surrogate	Acceptance % Recovery Qualifier Criteria	
1,2-Dichloroethane-d4	105 70-130	
Toluene-d8	701 70-130	
4-Bromofluorobenzene	103 70-130	
Dibromofluoromethane	97 70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21 Client ID: SB-3 (5-7)-2

LAWRENCE, MA Sample Location:

17001426

TOMBARELLO SITE

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 15:33 Date Collected: 09/04/19 09:40 Date Received: 09/06/19 Field Prep: Not Specified

Analytical Date:	09/15/19 15:33						
Analyst:	NLK						
Percent Solids:	83%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Lov	v - Westborougl	n Lab				
Methylene chloride		ND		₫/kg	4.8		1
1,1-Dichloroethane		ND		g/kg	0.95		
Chloroform		ND			1.4		1
Carbon tetrachloride		ND		ugh. L (kg	0.95		1
1,2-Dichloropropane		ND		ng/kg	0.95		
Dibromochloromethane		ND /		ug/kg	0.95		1
1,1,2-Trichloroethane		ND_		ug/kg ug/kg	0.95		1
Tetrachloroethene		1		ug/kg	0.48		1
Chlorobenzene		ND		ug/kg	0.48		1
Trichlorofluoromethane		NL		ug/kg	3.8		1
1,2-Dichloroethane				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-Dichloropropen	e	ND		ug/kg	0.95		1
cis-1,3-Dichloropropene		ND		ug/kg	0.48		1
1,3-Dichloropropene, Tota	al	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-Tetrachloroe and		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



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:40

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

1.2-Dichlorobenzene ND	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1.2-Dichlorobenzene ND	MCP Volatile Organics by EPA 5035	5 Low - Westboroug	h Lab				
1.2-Dichlorobenzene ND ug/kg 1.9 - 1 1.3-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 1.5-Dichlorobenzene ND ug/kg 1.9 - 1 1.5-Dichlorobenzene ND ug/kg 1.9 - 1 1.5-Xylene ND ug/kg 0.9 - 1 1.5-	Trichloroethene	1.9		ug/kg	0.48		/ 1
1.3-Dichlorobonzene ND ug/kg 1.9 - 1 1.4-Dichlorobenzene ND ug/kg 1.9 - 1 1.5-Dichlorobenzene ND ug/kg 0.9 - 1 1.5-Dichlorobenzene ND ug/kg 1.9 - 1 1.5-Dichlorobenzene ND ug/kg 1.9 - 1 1.5-Dichlorobenzene ND ug/kg 0.9 - 1 1.5-Dichlor	1,2-Dichlorobenzene	ND			1.9		1
1.4-Dichlorobenzene ND ug/kg 1.9 - 1 Methyl tethurly either ND ug/kg 1.9 - 1 prim-Xylene ND ug/kg 0.9 - 1 ND ug/kg 1.9 - 1 ND ug/kg 1.9 - 1 ND ug/kg 0.9 - 1 ND	1,3-Dichlorobenzene	ND			1.9		1
Methyl tert butyl ether ND ug/kg 1.9 1 pr/m-Xylene ND ug/kg 2.6 1 cx-Xylene ND ug/kg 0.9 - 1 Xylenes, Total ND ug/kg 9.95 - 1 Xylenes, Total 4.0 ug/kg 9.95 - 1 1.2-Dichloroethene, Total 4.0 ug/kg 1.9 - 1 1.2-Dichloroethene, Total 4.0 ug/kg 1.9 - 1 1.2-Dichloroethene, Total 4.0 ug/kg 0.95 - 1 1.2-Dichloroethene, Total 4.0 ug/kg 0.95 - 1 2.2-Dichloroethene ND ug/kg 0.95 - 1 2	1,4-Dichlorobenzene	ND			1.9		1
prim Xylene ND ug/kg 1 1 cx Xylenes ND ug/kg 0.28 1 cx Xylenes, Total ND ug/kg 0.28 1 cis-1, 2-Dichloroethene 4.0 ug/kg 0.95 1 1,2-Dichloroethene, Total 4.0 g/kg 1.9 1 Dichromethane ND ug/kg 1.9 1 1,2,3-Trichloropropane ND ug/kg 0.95 1 Styrene ND ug/kg 0.95 1 Styrene ND ug/kg 0.95 1 Cacton disulfide ND ug/kg 9.5 1 Acatone 260 ug/kg 9.5 1 Methyl isobutyl katone ND ug/kg 9.5 1 Methyl isobutyl katone ND ug/kg 1.9 1 Bromochizometha	Methyl tert butyl ether	ND			1.9		1
c-Xylene ND ug/kg 0.9%	p/m-Xylene	ND					1
1.2-Dichloroethene	o-Xylene	ND			0.9.		1
1.2-Dichloroethene, Total 4.0 ø/kg 1.9 - 1 Dibromomethane ND lokkg 1.9 - 1 1.2,3-Trichloropropane ND ug/kg 1.9 - 1 Skyrene ND ug/kg 9.5 - 1 Dichlorodfilloromethane ND ug/kg 9.5 - 1 Acetone 260 ug/kg 9.5 - 1 Carbon disulfide ND ug/kg 9.5 - 1 Methyl ethyl ketone 2 ug/kg 9.5 - 1 Methyl isobulyl ketone 2 ug/kg 9.5 - 1 2-Hexanone ND ug/kg 9.5 - 1 Bermochloromethane ND ug/kg 1.9 - 1 Tetrahydrofuran ND ug/kg 1.9 - 1 1.2-Dibromoethane ND ug/kg 0.95 - 1 1	Xylenes, Total	ND		ug/kg	9.95		1
Diknomethane ND	cis-1,2-Dichloroethene	4.0		ug/kg	.95		1
1,2,3-Trichloropropane ND Ug/kg 1,9 1	1,2-Dichloroethene, Total	4.0		_g /kg	0.95		1
ND	Dibromomethane	ND		g/kg	1.9		1
Dichlorodifluoromethane ND	1,2,3-Trichloropropane	ND		ug	1.9		1
Acctorine 260 ug/kg 9.5 1 Carbon disulfide ND ug/kg 9.5 1 Methyl ethyl ketone A2 ug/kg 9.5 1 Methyl isobutyl ketone ND ug/kg 9.5 1 2-Hexanone NB ug/kg 9.5 1 Bromochloromethane 1-2 ug/kg 1.9 1 Bromochloromethane ND ug/kg 1.9 1 1,2-Dibromoethane ND ug/kg 1.9 1 1,3-Dichloropropane ND ug/kg 1.9 1 1,3-Dichloropropane ND ug/kg 0.95 1 1,1,1-2-Tetrachloroethane ND ug/kg 0.95 1 n-Butylbenzene ND ug/kg 0.95 1 n-Butylbenzene ND ug/kg 0.95 1 <td>Styrene</td> <td>ND</td> <td><u> </u></td> <td>u (kg</td> <td>0.95</td> <td></td> <td>1</td>	Styrene	ND	<u> </u>	u (kg	0.95		1
Carbon disulfide ND ug/kg 9.5 1 Methyl ethyl ketone 12 ug/kg 9.5 1 Methyl isobutyl ketone ND ug/kg 9.5 1 2-Hexanone NB ug/kg 9.5 1 Bromochloromethane NB ug/kg 1.9 1 Tetrahydrofuran ND ug/kg 1.9 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 0.95 1 1,3-Dichloropropane ND ug/kg 0.48 1 1,1-1,2-Tetrachloroethane ND ug/kg 0.95 1 n	Dichlorodifluoromethane	ND		ug/kg	9.5		1
Methyl ethyl ketone	Acetone	260		ug/kg	9.5		1
Methyl isobutyl ketone ND ug/kg 9.5 1 2-Hexanone NB ug/kg 9.5 1 Bromochloromethane 19 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 1.9 1 1,3-Dichloropropane ND ug/kg 1.9 1 1,1,1,2-Tetrachloroethane ND ug/kg 0.48 1 1,1,1,2-Tetrachloroethane ND ug/kg 0.95 1 Bromobenzene ND ug/kg 0.95 1 n-Butylbenzene ND ug/kg 0.95 1 sec-Butylbenzene ND ug/kg 1.9 1 etert-Butylbenzene ND ug/kg 1.9 1	Carbon disulfide	ND		ug/kg	9.5		1
New York	Methyl ethyl ketone	12		ug/kg	9.5		1
Bromochloromethane	Methyl isobutyl ketone	ND		ug/kg	9.5		1
Tetrahydrofuran	2-Hexanone	NL		ug/kg	9.5		1
ND	Bromochloromethane			ug/kg	1.9		1
1,2-Dibromoethane	Tetrahydrofuran	ND		ug/kg	3.8		1
1,3-Dichloropropane ND	2,2-Dichloropropane	ND		ug/kg	1.9		1
ND	1,2-Dibromoethane	ND		ug/kg	0.95		1
ND	1,3-Dichloropropane	ND		ug/kg	1.9		1
ND	1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48		1
ND	Bromobenzene	ND		ug/kg	1.9		1
ND	n-Butylbenzene	ND		ug/kg	0.95		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 3.8 1 Naphthalene ND ug/kg 3.8 1	sec-Butylbenzene	ND		ug/kg	0.95		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	tert-Butylbenzene	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	o-Chlorotoluene	ND		ug/kg	1.9		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	p-Chlorotoluene	ND		ug/kg	1.9		1
ND	1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8		1
p-Isopropyltoluene ND ug/kg 0.95 1 Naphthalene ND ug/kg 3.8 1	Hexachlorobutadiene	ND		ug/kg	3.8		1
Naphthalene ND ug/kg 3.8 1	Isopropylbenzene	ND		ug/kg	0.95		1
	p-Isopropyltoluene	ND		ug/kg	0.95		1
n-Propylbenzene ND ug/kg 0.95 1	Naphthalene	ND		ug/kg	3.8		1
	n-Propylbenzene	ND		ug/kg	0.95		1



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:40

Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

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			
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.8		1			
Tertiary-Amyl Methyl Ether	ND		ug/kg	19		1			
1,4-Dioxane	ND		ug/kg	6		1			

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	129	70-130	
Toluene-d8	92	70-130	
4-Bromofluorobenzene	98	70-130	
Dibromofluoromethane	111	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23

SB-2 (1-2) LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Location:

Sample Depth:

Client ID:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/14/19 15:11 Date Collected: 09/04/19 10:05 Date Received: 09/06/19 Field Prep: Not Specified

Analytical Date:	09/14/19 15:11						•
Analyst:	KJD						
Percent Solids:	90%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Lov	v - Westboroug	h Lab				
Methylene chloride		ND		ي/kg	5.2		1
1,1-Dichloroethane		ND		g/kg	1.0		1
Chloroform		ND		ug/.	1.6		1
Carbon tetrachloride		ND	_	u ⁽ kg	1.0		1
1,2-Dichloropropane		ND		ng/kg	1.0		1
Dibromochloromethane		ND		ug/kg	1.0		1
1,1,2-Trichloroethane		ND		ug/kg	1.0		1
Tetrachloroethene		_1		ug/kg	0.52		1
Chlorobenzene		ND		ug/kg	0.52		1
Trichlorofluoromethane		NL		ug/kg	4.2		1
1,2-Dichloroethane				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-Dichloropropen	e	ND		ug/kg	1.0		1
cis-1,3-Dichloropropene		ND		ug/kg	0.52		1
1,3-Dichloropropene, Tot	al	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-Tetrachloroe and	e	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

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 Client ID: SB-2 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 10:05

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low -	Westborougl	h Lab				
Trichloroethene	ND		ug/kg	0.52		<u> </u>
1,2-Dichlorobenzene	ND		ug/kg	2.1		1
1,3-Dichlorobenzene	ND		ug/kg	2.1		
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			1
o-Xylene	ND		ug/kg	1.6		1
Xylenes, Total	ND		ug/kg	1.0		1
cis-1,2-Dichloroethene	ND		ug/kg	0		1
1,2-Dichloroethene, Total	ND		⊿/kg	1.0		1
Dibromomethane	ND		g/kg	2.1		1
1,2,3-Trichloropropane	ND		ug	2.1		1
Styrene	ND		ι ∕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	1D		ug/kg	10		1
Methyl isobutyl ketone	ND		ug/kg	10		1
2-Hexanone	NL		ug/kg	10		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 Client ID: SB-2 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 10:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5035 Low -	Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	2.1		1	
Diethyl ether	ND		ug/kg	2.1		1	
Diisopropyl Ether	ND		ug/kg			1	
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1)	1	
Tertiary-Amyl Methyl Ether	ND		ug/kg	21		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	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Project Number: 17001426

Lab ID: R L1940717-23

TOMBARELLO SITE

Client ID: SB-2 (1-2) LAWRENCE, MA Sample Location:

Sample Depth:

Project Name:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 15:59

Date Collected:	09/04/19 10:05
Date Received:	09/06/19
Field Prep:	Not Specified

Analytical Date:	09/15/19 15:59						•
Analyst: Percent Solids:	NLK 90%						
Percent Solids.	3070						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organ	nics by EPA 5035 Lov	w - Westboroug	h Lab				
Methylene chloride		ND		J/kg	4.2		1
1,1-Dichloroethane		ND		g/kg	0.85		 1
Chloroform		ND			1.3		1
Carbon tetrachloride		ND		ug/ u_/kg	0.85		1
1,2-Dichloropropane		ND		rg/kg	0.85		1
Dibromochloromethane		ND A		ug/kg	0.85		1
1,1,2-Trichloroethane		ND_		ug/kg	0.85		<u>'</u> 1
Tetrachloroethene		4	X	ug/kg	0.42		<u>'</u> 1
Chlorobenzene		ND		ug/kg	0.42		 1
Trichlorofluoromethane		NL		ug/kg	3.4		<u>.</u> 1
1,2-Dichloroethane				ug/kg	0.85		<u>.</u> 1
1,1,1-Trichloroethane		ND		ug/kg	0.42		<u>'</u> 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, Tota	, in the second	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-Tetrachloroe ane		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

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 R

17001426

TOMBARELLO SITE

Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

Date Received: 09/06/19
Field Prep: Not Specified

09/04/19 10:05

Date Collected:

Sample Depth:

Project Name:

ACP Volatile Organics by EPA 5035 Low - Westborough Lab Frictioncethene ND Ug/kg 0.42 - 1	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
richloroethene ND ug/kg 0.42 - 1 ,2-Dichlorobenzene ND ug/kg 1.7 - 1 ,3-Dichlorobenzene ND ug/kg 1.7 - 1 ,4-Dichlorobenzene ND ug/kg 1.7 - 1 ,4-Dichlorobenzene ND ug/kg 1.7 - 1 //m-Xylene ND ug/kg 0.8 - 1 //m-Xylene ND ug/kg 0.8 - 1 //m-Xylene ND ug/kg 0.8 - 1 //m-Xylene ND ug/kg 0.85 - 1 //m-Xylene ND		5 Low - Westboroua	h Lab				
1.2		_					
1.00 1.00	Trichloroethene	ND		ug/kg			1
A-Dichlorobenzene ND	1,2-Dichlorobenzene	ND		ug/kg			1
No. No.	1,3-Dichlorobenzene	ND		ug/kg	1.7		
Markey Ame	1,4-Dichlorobenzene	ND		ug/kg	1.7		1
ND	Methyl tert butyl ether	ND		ug/kg	1.7		1
ND	p/m-Xylene	ND		ug/kg			1
ND	o-Xylene	ND		ug/kg	0.8.	<u> </u>	1
ND	Xylenes, Total	ND		ug/kg	0.85		1
ND	cis-1,2-Dichloroethene	ND		ug/kg	.85		1
ND	1,2-Dichloroethene, Total	ND		ے/kg	0.85		1
ND Ny Ng	Dibromomethane	ND		g/kg	1.7		1
ND	1,2,3-Trichloropropane	ND		ug,	1.7		1
ccctone 19 ug/kg 8.5 1 carbon disulfide ND ug/kg 8.5 1 fethyl ethyl ketone ND ug/kg 8.5 1 fethyl isobutyl ketone ND ug/kg 8.5 1 Hethyl isobutyl ketone NB ug/kg 1.7 1 1,2-Dibromothane ND ug/kg 1.7 1 1,1,2-Tetrachloroptopane ND ug/kg 1.7 <	Styrene	ND	<u> </u>	l (kg	0.85		1
Ratbon disulfide ND ug/kg 8.5 1 Methyl ethyl ketone AD ug/kg 8.5 1 Methyl isobutyl ketone ND ug/kg 8.5 1 Hetxanone NB ug/kg 8.5 1 Hetxanone NB ug/kg 8.5 1 Hetxanone NB ug/kg 1.7 1 Hetxanone ND ug/kg 3.4 1 Hetxanone ND ug/kg 1.7 1 Letxandrofferman ND ug/kg 1.7 1 Lettandydrofferman ND ug/kg 0.85 1 Lettandydrofferman ND ug/kg 0.42 1 Lettandydrofferman ND ug/kg 0.85 1 Lettandydrofferman ND ug/kg 0.85 1 Lettandyd	Dichlorodifluoromethane	ND		ug/kg	8.5		1
A	Acetone	19		ug/kg	8.5		1
No.	Carbon disulfide	ND		ug/kg	8.5		1
No.	Methyl ethyl ketone	ID I		ug/kg	8.5		1
Archanochloromethane 1S ug/kg 1.7 1 etertahydrofuran ND ug/kg 3.4 1 ,2-Dichloropropane ND ug/kg 1.7 1 ,2-Dichloropropane ND ug/kg 0.85 1 ,3-Dichloropropane ND ug/kg 1.7 1 ,3-Dichloropropane ND ug/kg 1.7 1 ,3-Dichloropropane ND ug/kg 0.42 1 ,4-Loropropane ND ug/kg 1.7 1 ,5-Dichloropropane ND ug/kg 0.85 1 ,6-Butylbenzene ND ug/kg 0.85 1 ,6-Butylbenzene ND ug/kg 1.7 1 ,6-Chlorotoluene ND ug/kg 1.7 1 ,2-Chloromo-3-chloropropane ND ug/kg 3.4 1	Methyl isobutyl ketone	ND		ug/kg	8.5		1
ND	2-Hexanone	NL		ug/kg	8.5		1
ND	Bromochloromethane			ug/kg	1.7		1
"2-Dibromoethane ND ug/kg 0.85 1 "3-Dichloropropane ND ug/kg 1.7 1 "1,1,2-Tetrachloroethane ND ug/kg 0.42 1 dromobenzene ND ug/kg 1.7 1 Butylbenzene ND ug/kg 0.85 1 Bec-Butylbenzene ND ug/kg 1.7 1 Ber-Butylbenzene ND ug/kg 1.7 1 Ber-Butylbenzene ND ug/kg 1.7 1 Ber-Butylbenzene ND ug/kg 1.7 1 Ber-Chlorotoluene ND ug/kg 1.7 1 Chlorotoluene ND ug/kg 2.5 1 Chlorotoluene ND ug/kg 3.4 1 Chlorotoluene ND ug/kg 3.4 1 Chlorotoluene ND ug/kg 3.4 1 <	Tetrahydrofuran	ND		ug/kg	3.4		1
ND	2,2-Dichloropropane	ND		ug/kg	1.7		1
ND	1,2-Dibromoethane	ND		ug/kg	0.85		1
ND	1,3-Dichloropropane	ND		ug/kg	1.7		1
ND	1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42		1
ND	Bromobenzene	ND		ug/kg	1.7		1
ND	n-Butylbenzene	ND		ug/kg	0.85		1
ND	sec-Butylbenzene	ND		ug/kg	0.85		1
ND	tert-Butylbenzene	ND		ug/kg	1.7		1
Applies ND ug/kg 2.5 1 Idexachlorobutadiene ND ug/kg 3.4 1 sopropylbenzene ND ug/kg 0.85 1 -Isopropyltoluene ND ug/kg 0.85 1 Iaphthalene 24 ug/kg 3.4 1	o-Chlorotoluene	ND		ug/kg	1.7		1
dexachlorobutadiene ND ug/kg 3.4 1 sopropylbenzene ND ug/kg 0.85 1 -lsopropyltoluene ND ug/kg 0.85 1 laphthalene 24 ug/kg 3.4 1	p-Chlorotoluene	ND		ug/kg	1.7		1
sopropylbenzene ND ug/kg 0.85 1 -Isopropyltoluene ND ug/kg 0.85 1 Iaphthalene 24 ug/kg 3.4 1	1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5		1
-Isopropyltoluene ND ug/kg 0.85 1 Iaphthalene 24 ug/kg 3.4 1	Hexachlorobutadiene	ND		ug/kg	3.4		1
ND ug/kg 0.85 1 Iaphthalene 24 ug/kg 3.4 1	Isopropylbenzene	ND		ug/kg	0.85		1
laphthalene 24 ug/kg 3.4 1	p-Isopropyltoluene	ND			0.85		1
	Naphthalene	24			3.4		1
MAINA TITE	n-Propylbenzene	ND		ug/kg	0.85		1



Serial_No:09201912:30

Lab Number: L1940717

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 R

17001426

TOMBARELLO SITE

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:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5	035 Low - Westborougl	n 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.7		1	
Diethyl ether	ND		ug/kg	1.7	·	1	
Diisopropyl Ether	ND		ug/kg			1	
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7		1	
Tertiary-Amyl Methyl Ether	ND		ug/kg	17		1	
1,4-Dioxane	ND		ug/kg	38		1	

Surrogate	% Recovery Qualifie	Acceptance r Criteria	
1,2-Dichloroethane-d4	129	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	116	70-130	
Dibromofluoromethane	110	70-130	



Serial_No:09201912:30

09/04/19 10:07

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24 Client ID: SB-2 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Received: 09/06/19 Field Prep: Not Specified

Date Collected:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

97,8260C Analytical Method: Analytical Date: 09/15/19 15:07

Analytical Date: Analyst: Percent Solids:	09/15/19 15:07 NLK 89%								
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor		
MCP Volatile Orga	anics by EPA 5035 Low	- Westboroug	h Lab						
Methylene chloride		ND		او /kg	4.8		1		
1,1-Dichloroethane		ND		g/kg	0.97		1		
Chloroform		ND		ug).	1.4		1		
Carbon tetrachloride		ND	_	u (kg	0.97		1		
1,2-Dichloropropane		ND		ng/kg	0.97		1		
Dibromochloromethane		ND		ug/kg	0.97		1		
1,1,2-Trichloroethane		ND		ug/kg	0.97		1		
Tetrachloroethene		.61		ug/kg	0.48		1		
Chlorobenzene		ND		ug/kg	0.48		1		
Trichlorofluoromethane		NL		ug/kg	3.9		1		
1,2-Dichloroethane				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-Dichloroproper	ne	ND		ug/kg	0.97		1		
cis-1,3-Dichloropropene		ND		ug/kg	0.48		1		
1,3-Dichloropropene, To	tal	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-Tetrachloros an	e	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		

ND

ND

ND

ND

ND



1

1

1

1

1

1.9

0.97

1.9

0.97

1.4

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

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Bromomethane

Vinyl chloride

Chloroethane

1,1-Dichloroethene

trans-1,2-Dichloroethene

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

TOMBARELLO SITE

17001426

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:

Project Name:

Lab ID:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low -	Westboroug	h 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		
1,4-Dichlorobenzene	ND		ug/kg	1.9		1
Methyl tert butyl ether	ND		ug/kg	1.9		1
p/m-Xylene	ND		ug/kg			1
o-Xylene	ND		ug/kg	0.9.		1
Xylenes, Total	ND		ug/kg	0.97		1
cis-1,2-Dichloroethene	ND		ug/kg	.97		1
1,2-Dichloroethene, Total	ND		/kg	0.97		1
Dibromomethane	ND	_	g/kg	1.9		1
1,2,3-Trichloropropane	ND		ug,	1.9		1
Styrene	ND	<u> </u>	∟ ⁄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	AD .		ug/kg	9.7		1
Methyl isobutyl ketone	ND		ug/kg	9.7		1
2-Hexanone	N⊾		ug/kg	9.7		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24

TOMBARELLO SITE

17001426

Client ID: SB-2 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07 Date Received: 09/06/19

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 503	35 Low - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.9		1	
Diethyl ether	ND		ug/kg	1.9	·	1	
Diisopropyl Ether	ND		ug/kg			1	
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.8		1	
Tertiary-Amyl Methyl Ether	ND		ug/kg	19		1	
1,4-Dioxane	ND		ug/kg	â		1	

Surrogate	% Recovery Qua	Acceptance alifier Criteria	
1,2-Dichloroethane-d4	126	70-130	
Toluene-d8	91	70-130	
4-Bromofluorobenzene	92	70-130	
Dibromofluoromethane	109	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27 Client ID: SB-2 (5-7)-2

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 10:20 Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/14/19 16:15

Analyst: JC Percent Solids: 81% Result Qualifier Units RL JobL Dilution Factor MCP Volatile Organics by EPA 5035 Low-Westboroush Lab Methylene chloride ND 6/8g 6.6 - 1 1.1-Bichlorethane ND up/kg 1.3 - 1 Chloroform ND up/kg 1.3 - 1 Chloroform ND up/kg 1.3 - 1 L2-Dichloropropane ND up/kg 1.3 - 1 L2-Dichloropropane ND up/kg 1.3 - 1 L1-2-Trichloredhane ND up/kg 1.3 - 1 L1-2-Trichloredhane ND up/kg 0.66 - 1 L1-2-Trichloredhane ND up/kg 5.3 - 1 L1-2-Trichloredhane ND up/kg 0.66 - 1 L1-1-Trichloredhane ND	Analytical Date:	09/14/19 16:15						
Parameter Result Qualifier Units RL BIDL Dilution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Leb ND 9/8 6.6 1 Methylene chloride ND 9/8 1.3 1 1,1-Dichloropthane ND 19/8 1.3 1 Chloroform ND 19/8 1.3 1 Chloroform ND 19/8 1.3 1 1,2-Dichloroptopane ND 19/8 0.6 1 1,1-2-Trichlorodharene ND 19/8 0.6 1 1,1-2-Dichloroptopane ND 19/8 0.6 1 1,1-1-1-Trichloroptopane ND 19/8	Analyst:	JC						
Parameter Result Qualifier Units RL BIDL Dilution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Leb ND 9/8 6.6 1 Methylene chloride ND 9/8 1.3 1 1,1-Dichloropthane ND 19/8 1.3 1 Chloroform ND 19/8 1.3 1 Chloroform ND 19/8 1.3 1 1,2-Dichloroptopane ND 19/8 0.6 1 1,1-2-Trichlorodharene ND 19/8 0.6 1 1,1-2-Dichloroptopane ND 19/8 0.6 1 1,1-1-1-Trichloroptopane ND 19/8	Percent Solids:	81%						
Parameter Result Qualifier Units RL BIDL Dilution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Leb ND 9/8 6.6 1 Methylene chloride ND 9/8 1.3 1 1,1-Dichloropthane ND 19/8 1.3 1 Chloroform ND 19/8 1.3 1 Chloroform ND 19/8 1.3 1 1,2-Dichloroptopane ND 19/8 0.6 1 1,1-2-Trichlorodharene ND 19/8 0.6 1 1,1-2-Dichloroptopane ND 19/8 0.6 1 1,1-1-1-Trichloroptopane ND 19/8								
Parameter Result Qualifier Units RL BIDL Dilution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Leb ND 9/8 6.6 1 Methylene chloride ND 9/8 1.3 1 1,1-Dichloropthane ND 19/8 1.3 1 Chloroform ND 19/8 1.3 1 Chloroform ND 19/8 1.3 1 1,2-Dichloroptopane ND 19/8 0.6 1 1,1-2-Trichlorodharene ND 19/8 0.6 1 1,1-2-Dichloroptopane ND 19/8 0.6 1 1,1-1-1-Trichloroptopane ND 19/8								
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Methylene chloride ND 3/kg 6.6 1 1,1-Dichlorochtane ND 19/kg 1.3 1 Chloroform ND 19/kg 1.3 1 Carbon tetrachloride ND 19/kg 1.3 1 1,2-Dichloropropane ND 19/kg 1.3 1 Dibromochloromethane ND 19/kg 1.3 1 1,1-2-Tichloroethane ND 19/kg 1.3 1 1-1-2-Tichloroethane ND 19/kg 1.3 1 1-1-2-Tichloroethane ND 19/kg 0.66 1 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-								
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Methylene chloride ND 3/kg 6.6 1 1,1-Dichlorochtane ND 19/kg 1.3 1 Chloroform ND 19/kg 1.3 1 Carbon tetrachloride ND 19/kg 1.3 1 1,2-Dichloropropane ND 19/kg 1.3 1 Dibromochloromethane ND 19/kg 1.3 1 1,1-2-Tichloroethane ND 19/kg 1.3 1 1-1-2-Tichloroethane ND 19/kg 1.3 1 1-1-2-Tichloroethane ND 19/kg 0.66 1 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-							V	
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1,1-Dichloroethane ND ugk 2.0 1 Chloroform ND ugk 2.0 1 Carbon tetrachloride ND ukkg 1.3 1 L2-Dichloropropane ND ugkg 1.3 1 Dibromochloromethane ND ugkg 1.3 1 1,1,2-Trichloroethane ND ugkg 1.3 1 1,1,2-Trichloroethane ND ugkg 0.66 1 Chlorobenzene ND ugkg 0.66 1 Trichlorofluoromethane ND ugkg 5.3 1 Trichloroethane ND ugkg 0.66 1 Bromodichloromethane ND ugkg 0.66 1 trans-1,3-Dichloropropene ND ugkg 0.66 1 trans-1,3-Dichloropropene ND ugkg 0.66 1<	MCP Volatile Organ	nics by EPA 5035 Lov	v - Westboroug	h Lab				
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Chloroform ND ught 2.0 1 Carbon tetrachloride ND 3 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 1,1,2-Trichloroethane ND ug/kg 1.3 1 Chlorobenzaene ND ug/kg 0.66 1 Trichlorofluoromethane NB ug/kg 5.3 1 1,1-Trichloroethane ND ug/kg 0.66 1 Bromoclichloromethane ND ug/kg 0.66 1 Bromoclichloromethane ND ug/kg 0.66 1 Itars-1,3-Dichloropropene ND ug/kg 0.66 1 Itars-1,3-Dichloropropene, Total ND ug/kg 0.66						4		
Carbon tetrachloride ND 1 kg 1.3 - 1 1,2-Dichloropropane ND 19/kg 1.3 - 1 Dibromochloromethane ND 19/kg 1.3 - 1 1,1,2-Trichloroethane ND 19/kg 1.3 - 1 Tetrachloroethane ND 19/kg 1.3 - 1 Tetrachloroethane ND 19/kg 0.66 - 1 Trichlorofluoromethane NB 19/kg 5.3 - 1 1,2-Dichloroethane ND 19/kg 0.66 - 1 1,1-Trichloroethane ND 19/kg 0.66 - 1 1,1-Trichloroethane ND 19/kg 0.66 - 1 Bromodichloromethane ND 19/kg 0.66 - 1 1,1-Trichloroethane ND 19/kg 0.66 - 1 1,1-Trichloroethane ND 19/kg 0.66 - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
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Chlorobenzene ND ug/kg 0.66 1 Trichlorofluoromethane ND ug/kg 5.3 1 1,2-Dichloroethane 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 0.66 1 trans-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 0.66 1 1,1,2,2-Tetrachlorostane ND ug/kg 0.66 1 Benzene ND ug/kg 0.66 1 Toluene ND ug/kg 1.3 1 <td>Tetrachloroethene</td> <td></td> <td>ā</td> <td></td> <td></td> <td>0.66</td> <td></td> <td>1</td>	Tetrachloroethene		ā			0.66		1
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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 5.3 1 Bromoform ND ug/kg 5.3 1 Bromoform ND ug/kg 0.66 1 1,1,2,2-Tetrachloros ane ND ug/kg 0.66 1 Benzene ND ug/kg 0.66 1 Toluene ND ug/kg 1.3 1 Ethylbenzene ND ug/kg 5.3 1 Chloromethane ND ug/kg 2.6 1	Trichlorofluoromethane	,	NL		ug/kg	5.3		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 5.3 1 Bromoform ND ug/kg 5.3 1 1,1,2,2-Tetrachloroscane 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 Sromomethane ND ug/kg 2.6 1 Vinyl chloride ND ug/kg 2.6 1	1,2-Dichloroethane				ug/kg	1.3		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 1,1-Dichloropropene ND ug/kg 0.66 1 Bromoform ND ug/kg 5.3 1 1,1,2,2-Tetrachloros ane ND ug/kg 0.66 1 Senzene ND ug/kg 0.66 1 Toluene ND ug/kg 0.66 1 Ethylbenzene ND ug/kg 1.3 1 Ethylbenzene ND ug/kg 1.3 1 Chloromethane ND ug/kg 5.3 1 Sromomethane ND ug/kg 1.3 1 Chloromethane ND ug/kg 5.3 1 Chlorotethane ND ug/kg 5.3 1 Chlorotethane ND ug/kg 5.3 1 Chloroethane ND ug/kg 2.6 1 Vinyl chloride ND ug/kg 1.3 1 Chloroethane ND ug/kg 1.3 1 Chloroethane ND ug/kg 1.3 1 I,1-Dichloroethene ND ug/kg 1.3 1	1,1,1-Trichloroethane	<u> </u>	ND		ug/kg	0.66		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-Tetrachlorochane 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 Vinyl chloride ND ug/kg 2.6 1 Vinyl chloride ND ug/kg 2.6 1 Chloroethane ND ug/kg 2.6 1 1,1-Dichloroethene ND ug/kg 1.3 1	Bromodichloromethane		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-Tetrachloroceane 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-1,3-Dichloropropene	e	ND		ug/kg	1.3		1
1,1-Dichloropropene ND ug/kg 0.66 1 Bromoform ND ug/kg 5.3 1 1,1,2,2-Tetrachloros ane 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 Vinyl chloride ND ug/kg 1.3 1 Chloroethane ND ug/kg 1.3 1 1,1-Dichloroethene ND ug/kg 2.6 1	cis-1,3-Dichloropropene		ND		ug/kg	0.66		1
Bromoform ND ug/kg 5.3 1 1,1,2,2-Tetrachlorockane 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	1,3-Dichloropropene, Tota	al	ND		ug/kg	0.66		1
1,1,2,2-Tetrachloros ane 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	1,1-Dichloropropene		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	Bromoform		ND		ug/kg	5.3		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	1,1,2,2-Tetrachloro		ND		ug/kg	0.66		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	Benzene		ND		ug/kg	0.66		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	Toluene	<u> </u>	ND		ug/kg	1.3		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	Ethylbenzene		ND		ug/kg	1.3		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	Chloromethane		ND		ug/kg	5.3		1
Chloroethane ND ug/kg 2.6 1 1,1-Dichloroethene ND ug/kg 1.3 1	Bromomethane		ND		ug/kg	2.6		1
1,1-Dichloroethene ND ug/kg 1.3 1	Vinyl chloride		ND		ug/kg	1.3		1
	Chloroethane		ND		ug/kg	2.6		1
trans-1,2-Dichloroethene ND ug/kg 2.0 1	1,1-Dichloroethene		ND		ug/kg	1.3		1
	trans-1,2-Dichloroethene		ND		ug/kg	2.0		1



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 10:20
Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 503	5 Low - Westborough	n 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			
1,4-Dichlorobenzene	ND		ug/kg	2.6		1	
Methyl tert butyl ether	ND		ug/kg	2.6	-	1	
p/m-Xylene	ND		ug/kg	7.8		1	
o-Xylene	ND		ug/kg	1.5		1	
Xylenes, Total	ND		ug/kg	1.3		1	
cis-1,2-Dichloroethene	4.8		ug/kg	3		1	
1,2-Dichloroethene, Total	4.8		J/kg	1.3		1	
Dibromomethane	ND	_	g/kg	2.6		1	
1,2,3-Trichloropropane	ND		ug,	2.6		1	
Styrene	ND	_	t (kg	1.3		1	
Dichlorodifluoromethane	ND		ng/kg	13		1	
Acetone	440	_ F	ug/kg	13		1	
Carbon disulfide	ND		ug/kg	13		1	
Methyl ethyl ketone	ND NO		ug/kg	13		1	
Methyl isobutyl ketone	ND		ug/kg	13		1	
2-Hexanone	NL		ug/kg	13		1	
Bromochloromethane			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	



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 10:20

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 503	5 Low - Westborougl	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	2.6		1	
Diethyl ether	ND		ug/kg	2.6	-	1	
Diisopropyl Ether	ND		ug/kg	7.5		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	.00		1	

Surrogate	% Recovery Qu	Acceptance alifier Criteria	_
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	104	70-130	
4-Bromofluorobenzene	103	70-130	
Dibromofluoromethane	99	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27 Client ID: SB-2 (5-7)-2

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/17/19 12:15

Date Collected:	09/04/19 10:20
Date Received:	09/06/19
Field Prep	Not Specified

Analytical Date:	09/17/19 12:15						•
Analyst: Percent Solids:	NLK 81%						
r creent donas.							
_							
Parameter	== . =	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Hig	h - Westborou	gh Lab	_			
Methylene chloride		ND		』/kg	520		1
1,1-Dichloroethane		ND		g/kg	100		1
Chloroform		ND		ug/l.	150		1
Carbon tetrachloride		ND		u ⁽ kg	100		1
1,2-Dichloropropane		ND		ng/kg	100		1
Dibromochloromethane		ND		ug/kg	100		1
1,1,2-Trichloroethane		ND		ug/kg	100		1
Tetrachloroethene		40		ug/kg	52		1
Chlorobenzene		ND		ug/kg	52		1
Trichlorofluoromethane		NL		ug/kg	410		1
1,2-Dichloroethane				ug/kg	100		1
1,1,1-Trichloroethane		ND		ug/kg	52		1
Bromodichloromethane		ND		ug/kg	52		1
trans-1,3-Dichloropropen	е	ND		ug/kg	100		1
cis-1,3-Dichloropropene		ND		ug/kg	52		1
1,3-Dichloropropene, Tot	al	ND		ug/kg	52		1
1,1-Dichloropropene		ND		ug/kg	52		1
Bromoform		ND		ug/kg	410		1
1,1,2,2-Tetrachloroe and		ND		ug/kg	52		1
Benzene		ND		ug/kg	52		1
Toluene	<u> </u>	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



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 10:20
Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

MCP Volatile Organics by EPA 5035 High - Westborough Lab	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1.2-Dichlorobenzene ND ug/kg 210 - 1 1 1 1 1 1 1 1 1	MCP Volatile Organics by EPA 5035 H	ligh - Westboroug	ıh Lab				
1.2-Dichlorobenzene	Tricklass of hone	420			50		• 4
1,3-Dichlorobenzene ND ug/kg 210 - 1 1,4-Dichlorobenzene ND ug/kg 210 - 1 Methyl tert bulyl ether ND ug/kg 210 - 1 pm/xylene ND ug/kg 20 - 1 p-Xylene ND ug/kg 100 - 1 xylene ND ug/kg 100 - 1 Xylene 130 ug/kg 100 - 1 L2-Dichloroethene, Total 130 ug/kg 100 - 1 L2-Dichloroethene, Total 130 ug/kg 100 - 1 L2-Dichloroethene, Total 130 ug/kg 100 - 1 Dibromomethane ND ug/kg 100 - 1 Syrene ND ug/kg 1000 - 1 Acetone ND ug/kg 1000 - 1 Karbinorentane							
1.4-Dichlorobenzene ND ug/kg 210 - 1 Methyl terb buyl ether ND ug/kg 210 - 1 p/m-Xylene ND ug/kg 20 - 1 xylenes, Total ND ug/kg 100 - 1 Xylenes, Total ND ug/kg 100 - 1 Sylenes, Total 130 ug/kg 100 - 1 Dichrocoethene 130 ug/kg 210 - 1 Dichrocoethene, Total 130 ug/kg 210 - 1 1,2.3-Trichloropropane ND ug/kg 100 - 1 Syrene ND ug/kg 100 - 1 Carbon disulfide ND ug/kg 1000 - 1 Carbon disulfide ND ug/kg 1000 - 1 Methyl asburyl ketone ND ug/kg 1000 - 1 El							
Methyl tert butyl ether ND ug/kg 210 1 prm-Xylene ND ug/kg 20 -1 1 o-Xylene ND ug/kg 100 -1 1 cis-1,2-Dichloroethene 130 ug/kg 100 -1 1 cis-1,2-Dichloroethene, Total 130 ug/kg 100 -1 1 Dibromethane ND ug/kg 100 -1 1 Slyrene ND ug/kg 100 -1 1 Slyrene ND ug/kg 100 -1 1 Dichorodifluoromethane ND ug/kg 1000 -1 1 Acetone ND ug/kg 1000 -1 1 Carbon disulfide ND ug/kg 1000 -1 1 Methyl etkore ND ug/kg 1000 -1 1 Methyl likobutyl ketone ND ug/kg 1000 -1 1 Erbaxanore							
p/m-Xylene ND ug/kg 10 - 1 o-Xylene ND ug/kg 100 - 1 Xylenes, Total ND ug/kg 100 - 1 Xylenes, Total ND ug/kg 100 - 1 1.2-Dichloroethene, Total 130 ug/kg 100 - 1 1.2-Dichloroethene, Total 130 ug/kg 100 - 1 1.2-S-Trichloropropane ND ug/kg 100 - 1 Syrene 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 sloburyl ketone ND ug/kg 1000 - 1 Bromochloromethane ND ug/kg 1000 - 1 Bro							
o-Xylene ND ug/kg 100 - 1 Xylenes, Total ND ug/kg 400 - 1 cis-1,2-Dichloreethene 130 ug/kg 400 - 1 1,2-Dichloreethene, Total 130 ug/kg 210 - 1 1,2-Dichloreethene, Total ND ug/kg 210 - 1 1,2-Dichloreethene ND ug/kg 100 - 1 1,2-Dichloreethane ND ug/kg 100 - 1 1,2-Dichloreethane ND ug/kg 100 - 1 Syrene ND ug/kg 100 - 1 Obchloredifluoremethane ND ug/kg 100 - 1 Carbon disulfide ND ug/kg 100 - 1 Carbon disulfide ND ug/kg 100 - 1 Methyl sebuly ketone ND ug/kg 100 - 1 <t< td=""><td></td><td></td><td></td><td></td><td>210</td><td></td><td></td></t<>					210		
Xylenes, Total ND ug/kg 100	<u> </u>						
130	<u> </u>						
1.2-Dichloroethene, Total 130 g/kg 100 1 Dibromomethane ND 10/kg 210 1 1.2.3-Trichloropropane ND 10/kg 210 1 Styrene ND 10/kg 100 1 Dichlorodifluoromethane ND 10/kg 1000 1 Acetone ND 10/kg 1000 1 Carbon disulfide ND 10/kg 1000 1 Methyl ethyl ketone ND 10/kg 1000 1 Methyl soburyl ketone ND 10/kg 1000 1 2-Hexanone ND 10/kg 1000 1 Serbasone ND 10/kg 210 1 Tetrahydrofuran ND 10/kg 210 1 1,2-Dibromoethane ND 10/kg 210 1	·						
Dibromomethane ND qkg 210 1 1,2,3-Trichloropropane ND ugk 210 1 Styrene ND kgg 100 1 Dichlorodifluoromethane ND ugkg 1000 1 Acetone ND ugkg 1000 1 Carbon disulfide ND ugkg 1000 1 Methyl lethyl ketone ND ugkg 1000 1 Hethyl lethyl ketone ND ugkg 1000 1 2-Hexanone ND ugkg 1000 1 2-Hexanone ND ugkg 210 1 1							
1,2,3-Trichloropropane ND ug-kg 210 1 Styrene ND k-kg 100 1 Dichlorodifluoromethane ND ug/kg 1000 1 Acetone ND ug/kg 1000 1 Carbon disulfide ND ug/kg 1000 1 Methyl store ND ug/kg 1000 1 Methyl store ND ug/kg 1000 1 2-Hexanone ND ug/kg 1000 1 Bromochioromethane ND ug/kg 210 1 Tetrahydrofuran ND ug/kg 210 1 1,2-Dibromoethane ND ug/kg 210 1 1,2-Dibromoethane ND ug/kg 210 1 1,3-Dichloropropane ND ug/kg 210 1 1,1					4		
Styrene ND NVg 100 - 1 Dichlorodiffluoromethane ND 100/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 sobutyl ketone ND ug/kg 1000 - 1 2-Hexanone NB ug/kg 1000 - 1 Bromochloromethane NB ug/kg 1000 - 1 Bromochloromethane ND ug/kg 410 - 1 1-craptachuroropane ND ug/kg 410 - 1 1,2-Dibromoethane ND ug/kg 100 - 1 1,2-Dibromoethane ND ug/kg 210 - 1 1,1,1,2-Tetrachloroethane ND ug/kg 52 - 1			•	g/kg			
Dichlorodiffluoromethane 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 NB ug/kg 1000 1 2-Hexanone NB ug/kg 210 1 Bromochloromethane ND ug/kg 210 1 1-terlahydrofuran ND ug/kg 210 1 1-2-Dibromoethane ND ug/kg 210 1 1,3-Dichloropropane ND ug/kg 210 1 1,1,1-2-Tetrachloroethane ND ug/kg 210 1 Bromobenzene ND ug/kg 100 1							
Acetone ND ug/kg 1000 1 Carbon disulfide ND ug/kg 1000 1 Methyl ethyl ketone AD ug/kg 1000 1 Methyl isobutyl ketone ND ug/kg 1000 1 2-Hexanone NB ug/kg 1000 1 Bromochloromethane NB ug/kg 210 1 Tetrahydrofuran ND ug/kg 210 1 1_2-Dibromoethane ND ug/kg 210 1 1_2-Dibromoethane ND ug/kg 210 1 1_3-Dichloropropane ND ug/kg 210 1 1_3-Dichloropropane ND ug/kg 210 1 1_1,1,1,2-Tetrachloroethane ND ug/kg 210 1 Bromochorane ND ug/kg 210 1	Styrene	ND					1
Carbon disulfide ND ug/kg 1000 1 Methyl ethyl ketone AD ug/kg 1000 1 Methyl isobutyl ketone ND ug/kg 1000 1 2-Hexanone NR ug/kg 1000 1 2-Hexanone NR ug/kg 1000 1 Bromochloromethane ND ug/kg 210 1 1-Etrahydrofuran ND ug/kg 410 1 2,2-Dichloropropane ND ug/kg 210 1 1,2-Dibromoethane ND ug/kg 210 1 1,3-Dichloroptopane ND ug/kg 210 1 1,3-Dichloroptopane ND ug/kg 210 1 1,1-1,2-Tetrachloroethane ND ug/kg 210 1 Bromobenzene ND ug/kg 100 1 <td>Dichlorodifluoromethane</td> <td>ND</td> <td></td> <td>ng/kg</td> <td>1000</td> <td></td> <td></td>	Dichlorodifluoromethane	ND		ng/kg	1000		
Methyl ethyl ketone ID ug/kg 1000 1 Methyl isobutyl ketone ND ug/kg 1000 1 2-Hexanone NB ug/kg 1000 1 Bromochloromethane S ug/kg 210 1 Bromochloromethane ND ug/kg 410 1 2,2-Dichloropropane ND ug/kg 210 1 1,2-Dibromoethane ND ug/kg 100 1 1,2-Dibromoethane 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 tetr-Butylbenzene ND ug/kg 210 1	Acetone	ND		ug/kg	1000		1
Methyl isobutyl ketone ND ug/kg 1000 1 2-Hexanone NR ug/kg 1000 1 Bromochloromethane PS 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 sec-Butylbenzene ND ug/kg 210 1 tetr-Butylbenzene ND ug/kg 210 1	Carbon disulfide	ND		ug/kg	1000		1
2-Hexanone	Methyl ethyl ketone	1D		ug/kg	1000		1
Bromochloromethane	Methyl isobutyl ketone	ND		ug/kg	1000		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 100 1 <	2-Hexanone	NL		ug/kg	1000		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 o-Chlorotoluene ND ug/kg 210 1 p-Chlorotoluene ND ug/kg 310 1 1,2-Dibromo-3-chloropropane ND ug/kg 410 1 Hexachlorobutadiene ND ug/kg 100 1 <	Bromochloromethane			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 sec-Butylbenzene ND ug/kg 210 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 <td>Tetrahydrofuran</td> <td>ND</td> <td></td> <td>ug/kg</td> <td>410</td> <td></td> <td>1</td>	Tetrahydrofuran	ND		ug/kg	410		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 ND ug/kg 100 1 ND ug/kg 100 1 ND ug/kg 410<	2,2-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	1,2-Dibromoethane	ND		ug/kg	100		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	1,3-Dichloropropane	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	1,1,1,2-Tetrachloroethane	ND		ug/kg	52		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	Bromobenzene	ND		ug/kg	210		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-Butylbenzene	ND		ug/kg	100		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	sec-Butylbenzene	ND		ug/kg	100		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	tert-Butylbenzene	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	o-Chlorotoluene	ND		ug/kg	210		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	p-Chlorotoluene	ND		ug/kg	210		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	1,2-Dibromo-3-chloropropane	ND			310		1
Isopropylbenzene ND ug/kg 100 1 p-Isopropyltoluene ND ug/kg 100 1 Naphthalene ND ug/kg 410 1	Hexachlorobutadiene	ND			410		1
p-Isopropyltoluene ND ug/kg 100 1 Naphthalene ND ug/kg 410 1	Isopropylbenzene	ND			100		1
Naphthalene ND ug/kg 410 1	p-Isopropyltoluene	ND			100		1
	Naphthalene	ND			410		1
n-Propylbenzene ND ug/kg 100 1	n-Propylbenzene	ND		ug/kg	100		1



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 10:20

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 50	35 High - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	210		1	
Diethyl ether	ND		ug/kg	210		1	
Diisopropyl Ether	ND		ug/kg	7.0	—	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	Acceptance % Recovery Qualifier Criteria
1,2-Dichloroethane-d4	101 70-130
Toluene-d8	99 70-130
4-Bromofluorobenzene	96 70-130
Dibromofluoromethane	94 70-130



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 Client ID: D-07 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/14/19 16:39

Analyst: JC Percent Solids: 91% Date Collected: 09/04/19 12:16
Date Received: 09/06/19
Field Prep: Not Specified

RL MDL Dilution Fac

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 50	35 Low - Westboroug	h Lab				
Methylene chloride	ND		⊌/kg	4.4		1
1,1-Dichloroethane	ND		g/kg	0.88		1
Chloroform	ND		ug/.	1.3		1
Carbon tetrachloride	ND	<u> </u>	u (kg	0.88		1
1,2-Dichloropropane	ND		ng/kg	0.88		1
Dibromochloromethane	ND		ug/kg	0.88		1
1,1,2-Trichloroethane	ND		ug/kg	0.88		1
Tetrachloroethene	.1		ug/kg	0.44		1
Chlorobenzene	ND		ug/kg	0.44		1
Trichlorofluoromethane	NL		ug/kg	3.5		1
1,2-Dichloroethane			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-Tetrachlorou ane	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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 Client ID: D-07 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 12:16 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low	· - Westboroug	h 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		
1,4-Dichlorobenzene	ND		ug/kg	1.8		1
Methyl tert butyl ether	ND		ug/kg	1.8	-	1
p/m-Xylene	ND		ug/kg			1
o-Xylene	ND		ug/kg	0.8		1
Xylenes, Total	ND		ug/kg	9.88		1
cis-1,2-Dichloroethene	ND		ug/kg	.88		1
1,2-Dichloroethene, Total	ND		⊿/kg	0.88		1
Dibromomethane	ND	_	g/kg	1.8		1
1,2,3-Trichloropropane	ND		ug	1.8		1
Styrene	ND	_	€ / kg	0.88		1
Dichlorodifluoromethane	ND		ng/kg	8.8		1
Acetone	350		ug/kg	8.8		1
Carbon disulfide	ND		ug/kg	8.8		1
Methyl ethyl ketone	10		ug/kg	8.8		1
Methyl isobutyl ketone	ND		ug/kg	8.8		1
2-Hexanone	NL		ug/kg	8.8		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 Client ID: D-07 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 12:16 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5035 Lo	w - Westboroug	h Lab					
1,2,3-Trichlorobenzene	ND		ug/kg	1.8		<u> </u>	
1,2,4-Trichlorobenzene	ND		ug/kg	1.8		1	
1,3,5-Trimethylbenzene	ND		ug/kg	1.8			
1,2,4-Trimethylbenzene	ND		ug/kg	1.8		1	
Diethyl ether	ND		ug/kg	1.8	-	1	
Diisopropyl Ether	ND		ug/kg	18	—	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	.0		1	

Surrogate	% Recovery Qu	Acceptance alifier Criteria	
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	102	70-130	
Dibromofluoromethane	97	70-130	



Serial_No:09201912:30

Not Specified

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 Client ID: D-07 (1-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 12:16 Date Received: 09/06/19

Field Prep:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C 09/16/19 09:21 Analytical Date:

Analytical Date:	09/16/19 09:21						
Analyst:	JC						
Percent Solids:	91%						
					~ < }		
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Hig	h - Westboroug	h Lab				
Methylene chloride		ND		و/kg	270		1
1,1-Dichloroethane		ND		g/kg	54		1
Chloroform		ND		ug/.	81		1
Carbon tetrachloride		ND		u (kg	54		1
1,2-Dichloropropane		ND		ng/kg	54		1
Dibromochloromethane		ND		ug/kg	54		1
1,1,2-Trichloroethane		ND		ug/kg	54		1
Tetrachloroethene		ND N		ug/kg	27		1
Chlorobenzene		ND		ug/kg	27		1
Trichlorofluoromethane		NL		ug/kg	220		1
1,2-Dichloroethane				ug/kg	54		1
1,1,1-Trichloroethane	<u> </u>	ND		ug/kg	27		1
Bromodichloromethane		ND		ug/kg	27		1
trans-1,3-Dichloropropen	е	ND		ug/kg	54		1
cis-1,3-Dichloropropene		ND		ug/kg	27		1
1,3-Dichloropropene, Tot	al	ND		ug/kg	27		1
1,1-Dichloropropene		ND		ug/kg	27		1
Bromoform		ND		ug/kg	220		1
1,1,2,2-Tetrachloroe and	e	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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 Client ID: D-07 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 12:16

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Hi	igh - Westboroug	ıh Lab				
Trichloroethene	ND		ug/kg	27		1
1,2-Dichlorobenzene	ND		ug/kg	110		1
1,3-Dichlorobenzene	ND		ug/kg	110		
1,4-Dichlorobenzene	ND		ug/kg	110		1
Methyl tert butyl ether	ND		ug/kg	110	-	1
p/m-Xylene	ND		ug/kg	1 0		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		₃/kg	54		1
Dibromomethane	ND		g/kg	110		1
1,2,3-Trichloropropane	ND		ug,	110		1
Styrene	ND	_	u (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 N		ug/kg	540		1
Methyl isobutyl ketone	ND		ug/kg	540		1
2-Hexanone	Nı		ug/kg	540		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 Client ID: D-07 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 12:16

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - V	Westboroug	ıh 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		
1,2,4-Trimethylbenzene	ND		ug/kg	110		1
Diethyl ether	ND		ug/kg	110		1
Diisopropyl Ether	ND		ug/kg	2 0		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 Qu	Acceptance alifier Criteria	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	98	70-130	
Dibromofluoromethane	92	70-130	



Serial_No:09201912:30

09/04/19 12:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45 Client ID: D-07 (7-9)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Received: 09/06/19 Field Prep: Not Specified

Date Collected:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/14/19 17:03

Analyst: JC Percent Solids: 78% Perameter Result Qualific Units RL Ditution Factor MCP Volatile Organics by EPA 5035 Low - Westborough Lab Westborough Lab Westborough Lab Westborough Lab Westborough Lab Methylene chloride ND July Rg 4.2 - 1 1,1-Dichlorophane ND Uny Rg 0.83 - 1 Chlorophopopane ND Light 0.83 - 1 Dibromochloromethane ND UnyRg 0.83 - 1 Tetrachlorophane ND UnyRg 0.83 - 1 Tetrachlorophane ND UnyRg 0.42 - 1 Chlorophopene ND UnyRg 0.42 - 1 Tetrachlorophane ND UnyRg 0.42 - 1 Tetrachlorophane ND UnyRg 0.42 - 1 Tetrachlorophane ND UnyRg 0.4	Analytical Date:	09/14/19 17:03						
Parameter Result Qualifier Units RL Dilution Factor MCP Volatile Organics by EPA 5035 Low-box-box-box Methylene chloride ND g/kg 4.2 1 Methylene chloride ND g/kg 6.33 1 Chloroform ND 10/kg 0.33 1 Chloroform ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.42 1 1,1-1-Trichloropropane ND 10/kg 0.83 1 1,1-1-Trichloropropane	Analyst:	JC						
Parameter Result Qualifier Units RL Dilution Factor MCP Volatile Organics by EPA 5035 Low-box-box-box Methylene chloride ND g/kg 4.2 1 Methylene chloride ND g/kg 6.33 1 Chloroform ND 10/kg 0.33 1 Chloroform ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.42 1 1,1-1-Trichloropropane ND 10/kg 0.83 1 1,1-1-Trichloropropane	Percent Solids:	78%						
Parameter Result Qualifier Units RL Dilution Factor MCP Volatile Organics by EPA 5035 Low-box-box-box Methylene chloride ND g/kg 4.2 1 Methylene chloride ND g/kg 6.33 1 Chloroform ND 10/kg 0.33 1 Chloroform ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.42 1 1,1-1-Trichloropropane ND 10/kg 0.83 1 1,1-1-Trichloropropane								
Parameter Result Qualifier Units RL Dilution Factor MCP Volatile Organics by EPA 5035 Low-box-box-box Methylene chloride ND g/kg 4.2 1 Methylene chloride ND g/kg 6.33 1 Chloroform ND 10/kg 0.33 1 Chloroform ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,2-Dichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.83 1 1,1-2-Trichloropropane ND 10/kg 0.42 1 1,1-1-Trichloropropane ND 10/kg 0.83 1 1,1-1-Trichloropropane								
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Methylene chloride ND 3/kg 4.2 " 1 1.1-Dichlorosthane ND 10/kg 0.83 " 1 Chloroform ND 10/kg 0.83 " 1 Chloroform ND 10/kg 0.83 " 1 1.2-Dichloropropane ND 10/kg 0.83 " 1 Dibromochloromethane ND 10/kg 0.83 " 1 1.1.2-Trichlorosethane ND 10/kg 0.83 " 1 1.1.2-Trichlorosethane ND 10/kg 0.83 " 1 1.1.2-Trichlorosethane ND 10/kg 0.42 " 1 1.1.1-Trichlorosethane ND 10/kg 0.42 " 1 1.1.1-Trichlorosethane ND 10/kg 0.42 " 1 1.1.1-Trichlorosethane ND 10/kg 0.42 " 1 1.1.1-Trichlorosethane <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Methylene chloride ND 3/kg 4.2 " 1 1.1-Dichlorosthane ND 10/kg 0.83 " 1 Chloroform ND 10/kg 0.83 " 1 Chloroform ND 10/kg 0.83 " 1 1.2-Dichloropropane ND 10/kg 0.83 " 1 Dibromochloromethane ND 10/kg 0.83 " 1 1.1.2-Trichlorosethane ND 10/kg 0.83 " 1 1.1.2-Trichlorosethane ND 10/kg 0.83 " 1 1.1.2-Trichlorosethane ND 10/kg 0.42 " 1 1.1.1-Trichlorosethane ND 10/kg 0.42 " 1 1.1.1-Trichlorosethane ND 10/kg 0.42 " 1 1.1.1-Trichlorosethane ND 10/kg 0.42 " 1 1.1.1-Trichlorosethane <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Y</td> <td></td>							Y	
Methylene chloride ND Jkg 4.2 1 1,1-Dichlorosthane ND laykg 0.83 1 Chloroforn ND laykg 0.83 1 Carbon tetrachloride ND laykg 0.83 1 1,2-Dichloropropane ND laykg 0.83 1 Dibromochloromethane ND laykg 0.83 1 1,1,2-Trichloroethane ND laykg 0.83 1 1,1,2-Trichloroethane ND laykg 0.83 1 1,1-Trichloroethane ND laykg 0.42 1 Trichloroethane ND laykg 0.42 1 1,1-Trichloroethane ND laykg 0.42 1 1,1-Trichloroethane ND laykg 0.42 1 1,1-Trichloroethane ND laykg 0.42	Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
1,1-Dichloroethane ND 10 kg 0.83 1 Chloroform ND ugs 1.2 1 Carbon tetrachloride ND ugskg 0.83 1 1,2-Dichloropropane ND ugskg 0.83 1 Dibromochloromethane ND ugskg 0.83 1 1,1,2-Trichloroethane ND ugskg 0.83 1 1,1,2-Trichloroethane ND ugskg 0.83 1 Chloroethane ND ugskg 0.42 1 Trichlorotuoromethane ND ugskg 0.42 1 1,1-1-Trichloroethane ND ugskg 0.42 1 Bromodichloromethane ND ugskg 0.42 1 trans-1,3-Dichloropropene ND ugskg 0.42 1 trans-1,3-Dichloropropene ND ugskg 0.42 <t< td=""><td>MCP Volatile Orga</td><td>nics by EPA 5035 Low</td><td>v - Westboroug</td><td>h Lab</td><td></td><td></td><td></td><td></td></t<>	MCP Volatile Orga	nics by EPA 5035 Low	v - Westboroug	h Lab				
1,1-Dichloroethane ND 10 kg 0.83 1 Chloroform ND ugs 1.2 1 Carbon tetrachloride ND ugskg 0.83 1 1,2-Dichloropropane ND ugskg 0.83 1 Dibromochloromethane ND ugskg 0.83 1 1,1,2-Trichloroethane ND ugskg 0.83 1 1,1,2-Trichloroethane ND ugskg 0.83 1 Chloroethane ND ugskg 0.42 1 Trichlorotuoromethane ND ugskg 0.42 1 1,1-1-Trichloroethane ND ugskg 0.42 1 Bromodichloromethane ND ugskg 0.42 1 trans-1,3-Dichloropropene ND ugskg 0.42 1 trans-1,3-Dichloropropene ND ugskg 0.42 <t< td=""><td>Methylene chloride</td><td></td><td>ND</td><td></td><td>4/kg</td><td>4.2</td><td></td><td>1</td></t<>	Methylene chloride		ND		4/kg	4.2		1
Chloroform ND ught 1.2 1 Carbon tetrachloride ND 10 kg 0.83 1 1,2-Dichloropropane ND 10 kg 0.83 1 Dibromochloromethane ND 10 kg 0.83 1 1,1,2-Trichloroethane ND 10 kg 0.83 1 1,1,2-Trichloroethane ND 10 kg 0.83 1 1,1,2-Trichloroethane ND 10 kg 0.42 1 Chlorobenzene ND 10 kg 0.42 1 1,2-Dichloroethane ND 10 kg 0.42 1 1,1-Trichloroethane ND 10 kg 0.42 1 Bromodichloromethane ND 10 kg 0.42 1 1,1-Trichloroethane ND 10 kg 0.42 1 Bromodichloromethane ND 10 kg 0.42	1,1-Dichloroethane		ND			0.83		1
Carbon tetrachloride ND N kg 0.83 1 1,2-Dichloropropane ND 1g/kg 0.83 1 Dibromochloromethane ND 1g/kg 0.83 1 1,1,2-Trichloroethane ND 1g/kg 0.83 1 1,1,2-Trichloroethane AD 1g/kg 0.83 1 Chlorobenzene AD 1g/kg 0.42 1 Chlorobenzene ND 1g/kg 0.42 1 Trichlorofluoromethane ND 1g/kg 0.83 1 1,1-Trichloroethane ND 1g/kg 0.83 1 Bromodichloromethane ND 1g/kg 0.42 1 trans-1,3-Dichloropropene ND 1g/kg 0.42 1 trans-1,3-Dichloropropene ND 1g/kg 0.42 1 1,1-Dichloropropene, Total ND 1g/kg 0.42 <td>Chloroform</td> <td></td> <td>ND</td> <td></td> <td></td> <td>1.2</td> <td></td> <td>1</td>	Chloroform		ND			1.2		1
1,2-Dichloropropane ND 1,9/kg 0.83 1 Dibromochloromethane ND ug/kg 0.83 1 1,1,2-Trichloroethane ND ug/kg 0.83 1 Tetrachloroethane ND ug/kg 0.42 1 Chlorobenzene ND ug/kg 0.42 1 Trichlorofluoromethane NB ug/kg 3.3 1 Trichloroethane ND ug/kg 0.42 1 1,1-1-Trichloroethane ND ug/kg 0.42	Carbon tetrachloride							1
Dibromochloromethane ND ug/kg 0.83 1 1,1,2-Trichloroethane ND ug/kg 0.83 1 Tetrachloroethane AD 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 0.42 1 trans-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 1,1-1,2-Tetrachloros ane ND ug/kg	1,2-Dichloropropane		ND			0.83		1
1,1,2-Trichloroethane ND ug/kg 0.83 1 Tetrachloroethene ID ug/kg 0.42 1 Chlorobenzene ND ug/kg 0.42 1 Trichlorofluoromethane NB 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 Bromodichloropropene ND ug/kg 0.83 1 trans-1,3-Dichloropropene ND ug/kg 0.83 1 1,3-Dichloropropene ND ug/kg 0.42 1 1,3-Dichloropropene, Total ND ug/kg 0.42 1 Bromoform ND ug/kg 0.42 1 Benzene ND ug/kg 0.42	Dibromochloromethane		ND			0.83		1
Tetrachloroethene ND ug/kg 0.42 1 Chlorobenzene ND ug/kg 0.42 1 Trichloroffluoromethane NB 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 Bromodichloropropene ND ug/kg 0.83 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 Bromoform ND ug/kg 0.42 1 1,1,2,2-Tetrachloroceane ND ug/kg 0.42 1 Benzene ND ug/kg 0.83 <	1,1,2-Trichloroethane		ND		•	0.83		1
Trichlorofluoromethane NL 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 0.42 1 cis-1,3-Dichloropropene ND ug/kg 0.42 1 1,3-Dichloropropene ND ug/kg 0.42 1 1,3-Dichloropropene ND ug/kg 0.42 1 1,1-Dichloropropene ND ug/kg 0.42 1 Bromoform ND ug/kg 0.42 1 Bromoform ND ug/kg 0.42 1 Benzene ND ug/kg 0.83 1 Toluene ND ug/kg 0.83 1	Tetrachloroethene		1D			0.42		1
1,2-Dichloroethane 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 ND ug/kg 0.42 1 1,3-Dichloropropene ND ug/kg 0.42 1 1,1-Dichloropropene ND ug/kg 0.42 1 Bromoform ND ug/kg 0.42 1 Bromoform ND ug/kg 0.42 1 Benzene ND ug/kg 0.83 1 Toluene ND ug/kg 0.83 1 Ethylbenzene ND ug/kg 3.3 1 Chl	Chlorobenzene		ND		ug/kg	0.42		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-Tetrachloros ane 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 Vinyl chloride ND ug/kg 0.83 1	Trichlorofluoromethane		NL		ug/kg	3.3		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-Tetrachloroc vane 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 1.7 1 Vinyl chloride ND ug/kg 0.83 1 Chloroethane ND ug/kg 0.83 1	1,2-Dichloroethane				ug/kg	0.83		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-Tetrachloros lane 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 0.83 1 Vinyl chloride ND ug/kg 0.83 1 Chloroethane ND ug/kg 0.83 1	1,1,1-Trichloroethane	<u> </u>	ND		ug/kg	0.42		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-Tetrachloroctane ND ug/kg 0.42 1 Benzene ND ug/kg 0.42 1 Toluene ND ug/kg 0.83 1 Ethylbenzene ND ug/kg 3.3 1 Chloromethane ND ug/kg 3.3 1 Vinyl chloride ND ug/kg 0.83 1 Chloroethane ND ug/kg 0.83 1 Chloroethene ND ug/kg 0.83 1	Bromodichloromethane		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-Tetrachloroceane 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 0.83 1 1,1-Dichloroethene ND ug/kg 0.83 1	trans-1,3-Dichloropropene	е	ND		ug/kg	0.83		1
1,1-Dichloropropene ND ug/kg 0.42 1 Bromoform ND ug/kg 3.3 1 1,1,2,2-Tetrachloros ane ND ug/kg 0.42 1 Benzene ND ug/kg 0.83 1 Toluene ND ug/kg 0.83 1 Ethylbenzene ND ug/kg 0.83 1 Chloromethane ND ug/kg 3.3 1 Vinyl chloride ND ug/kg 0.83 1 Chloroethane ND ug/kg 0.83 1 1,1-Dichloroethene ND ug/kg 0.83 1	cis-1,3-Dichloropropene		ND		ug/kg	0.42		1
Bromoform ND ug/kg 3.3 1 1,1,2,2-Tetrachloroc ane ND ug/kg 0.42 1 Benzene ND ug/kg 0.42 1 Toluene ND ug/kg 0.83 1 Ethylbenzene ND ug/kg 3.3 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	1,3-Dichloropropene, Tota	al	ND		ug/kg	0.42		1
1,1,2,2-Tetrachloroscane ND ug/kg 0.42 1 Benzene ND ug/kg 0.42 1 Toluene ND ug/kg 0.83 1 Ethylbenzene ND ug/kg 3.3 1 Chloromethane 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	1,1-Dichloropropene		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	Bromoform		ND		ug/kg	3.3		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	1,1,2,2-Tetrachloroe and		ND		ug/kg	0.42		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	Benzene		ND		ug/kg	0.42		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	Toluene		ND		ug/kg	0.83		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	Ethylbenzene		ND		ug/kg	0.83		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	Chloromethane		ND		ug/kg	3.3		1
Chloroethane ND ug/kg 1.7 1 1,1-Dichloroethene ND ug/kg 0.83 1	Bromomethane		ND		ug/kg	1.7		1
1,1-Dichloroethene ND ug/kg 0.83 1	Vinyl chloride		ND		ug/kg	0.83		1
	Chloroethane		ND		ug/kg	1.7		1
trans-1,2-Dichloroethene ND ug/kg 1.2 1	1,1-Dichloroethene		ND		ug/kg	0.83		1
	trans-1,2-Dichloroethene		ND		ug/kg	1.2		1



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45 Client ID: D-07 (7-9)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 12:30

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low -	Westborougl	n Lab				
Trichloroethene	ND		ug/kg	0.42		<u> </u>
1,2-Dichlorobenzene	ND		ug/kg	1.7		1
1,3-Dichlorobenzene	ND		ug/kg	1.7		
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
o-Xylene	ND		ug/kg	0.8.		1
Xylenes, Total	ND		ug/kg	9.83		1
cis-1,2-Dichloroethene	ND		ug/kg	.83		1
1,2-Dichloroethene, Total	ND		y ₄/kg	0.83		1
Dibromomethane	ND		g/kg	1.7		1
1,2,3-Trichloropropane	ND		ug.	1.7		1
Styrene	ND	_	€ /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	.0		ug/kg	8.3		1
Methyl isobutyl ketone	ND		ug/kg	8.3		1
2-Hexanone	NL		ug/kg	8.3		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45 Client ID: D-07 (7-9)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 12:30

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 503	35 Low - Westborougl	n 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.7		1	
Diethyl ether	ND		ug/kg	1.7	-	1	
Diisopropyl Ether	ND		ug/kg			1	
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7		1	
Tertiary-Amyl Methyl Ether	ND		ug/kg	17		1	
1,4-Dioxane	ND		ug/kg	sī		1	

Surrogate	% Recovery Q	Acceptance ualifier Criteria	
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	99	70-130	
Dibromofluoromethane	97	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50 Client ID: SB-DUP-5

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 19:44 Date Collected: 09/04/19 00:00 Date Received: 09/06/19 Field Prep: Not Specified

Analytical Date:	09/15/19 19:44						
Analyst:	NLK						
Percent Solids:	91%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Hig	h - Westborou	jh Lab				
Methylene chloride		ND		g/kg	240		1
1,1-Dichloroethane		ND		g/kg	49		1
Chloroform		ND		ug/.	73		1
Carbon tetrachloride		ND		u kg	49		1
1,2-Dichloropropane		ND		ng/kg	49		1
Dibromochloromethane		ND		ug/kg	49		1
1,1,2-Trichloroethane		ND		ug/kg	49		1
Tetrachloroethene		ND ND		ug/kg	24		1
Chlorobenzene		ND		ug/kg	24		1
Trichlorofluoromethane		NL		ug/kg	200		1
1,2-Dichloroethane				ug/kg	49		1
1,1,1-Trichloroethane	<u> </u>	ND		ug/kg	24		1
Bromodichloromethane		ND		ug/kg	24		1
trans-1,3-Dichloropropen	e	ND		ug/kg	49		1
cis-1,3-Dichloropropene		ND		ug/kg	24		1
1,3-Dichloropropene, Tot	al	ND		ug/kg	24		1
1,1-Dichloropropene		ND		ug/kg	24		1
Bromoform		ND		ug/kg	200		1
1,1,2,2-Tetrachloroe and		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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

 Lab ID:
 L1940717-50

 Client ID:
 SB-DUP-5

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 00:00

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High -	Westboroug	h Lab				
Trichloroethene	ND		ug/kg	24		1
1,2-Dichlorobenzene	ND		ug/kg	98		1
1,3-Dichlorobenzene	ND		ug/kg	98		
1,4-Dichlorobenzene	ND		ug/kg	98		1
Methyl tert butyl ether	ND		ug/kg	98		1
p/m-Xylene	ND		ug/kg			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		y ₄/kg	49		1
Dibromomethane	ND		g/kg	98		1
1,2,3-Trichloropropane	ND		ug.	98		1
Styrene	ND	<u> </u>	₹ 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	10		ug/kg	490		1
Methyl isobutyl ketone	ND		ug/kg	490		1
2-Hexanone	NL		ug/kg	490		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
Client ID: SB-DUP-5

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 00:00
Date Received: 09/06/19

Field Prep:

Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5035 H	ligh - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	98		1	
Diethyl ether	ND		ug/kg	98		1	
Diisopropyl Ether	ND		ug/kg			1	
Ethyl-Tert-Butyl-Ether	ND		ug/kg	98	<u></u>	1	
Tertiary-Amyl Methyl Ether	ND		ug/kg	98		1	
1,4-Dioxane	ND		ug/kg	300		1	

Surrogate	% Recovery Qu	Acceptance alifier Criteria
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130
Dibromofluoromethane	92	70-130



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55 Client ID: E-06 (1-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 13:24 Date Received: 09/06/19

Field Prep:

Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 21:45

Analytical Date:	09/15/19 21:45						
Analyst:	NLK						
Percent Solids:	94%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Low	- Westboroug	h Lab				
Methylene chloride		ND		g/kg	4.8		1
1,1-Dichloroethane		ND		g/kg	0.95		1
Chloroform		ND		ug/.	1.4		1
Carbon tetrachloride		ND		u (kg	0.95		1
1,2-Dichloropropane		ND		ng/kg	0.95		1
Dibromochloromethane		ND		ug/kg	0.95		1
1,1,2-Trichloroethane		ND		ug/kg	0.95		1
Tetrachloroethene		2.9		ug/kg	0.48		1
Chlorobenzene		ND		ug/kg	0.48		1
Trichlorofluoromethane		NL		ug/kg	3.8		1
1,2-Dichloroethane				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-Dichloropropen	e	ND		ug/kg	0.95		1
cis-1,3-Dichloropropene		ND		ug/kg	0.48		1
1,3-Dichloropropene, Tota	al	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-Tetrachloroe and	e	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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55 Client ID: E-06 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 13:24

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 50	35 Low - Westborough	n 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		
1,4-Dichlorobenzene	ND		ug/kg	1.9		1
Methyl tert butyl ether	ND		ug/kg	1.9	-	1
p/m-Xylene	ND		ug/kg			1
o-Xylene	ND		ug/kg	0.9		1
Xylenes, Total	ND		ug/kg	0.95		1
cis-1,2-Dichloroethene	1.2		ug/kg	.95		1
1,2-Dichloroethene, Total	1.2		kg/kg	0.95		1
Dibromomethane	ND		g/kg	1.9		1
1,2,3-Trichloropropane	ND		ug,	1.9		1
Styrene	ND	_	u √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	ID I		ug/kg	9.5		1
Methyl isobutyl ketone	ND		ug/kg	9.5		1
2-Hexanone	NL		ug/kg	9.5		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55 Client ID: E-06 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 13:24

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - V	Vestboroug	h 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		
1,2,4-Trimethylbenzene	ND		ug/kg	1.9		1
Diethyl ether	ND		ug/kg	1.9	-	1
Diisopropyl Ether	ND		ug/kg			1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5		1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9		1
1,4-Dioxane	ND		ug/kg	6		1

Surrogate	% Recovery Qu	Acceptance alifier Criteria	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	105	70-130	
Dibromofluoromethane	99	70-130	



Serial_No:09201912:30

Field Prep:

Lab Number:

L1940717

Not Specified

09/20/19

Report Date:

SAMPLE RESULTS

Lab ID: L1940717-56 Client ID: E-06 (5-7)-2

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 13:35 Date Received: 09/06/19

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 22:09

Analytical Date:	09/15/19 22:09						
Analyst:	NLK						
Percent Solids:	79%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organ	nics by EPA 5035 Low	r - Westboroug	h Lab				
Methylene chloride		ND		او /kg	4.8		1
1,1-Dichloroethane		ND		g/kg	0.97		1
Chloroform		ND		ug).	1.4		1
Carbon tetrachloride		ND		u (kg	0.97		1
1,2-Dichloropropane		ND		ng/kg	0.97		1
Dibromochloromethane		ND		ug/kg	0.97		1
1,1,2-Trichloroethane		ND		ug/kg	0.97		1
Tetrachloroethene		ND N		ug/kg	0.48		1
Chlorobenzene		ND		ug/kg	0.48		1
Trichlorofluoromethane		NL		ug/kg	3.9		1
1,2-Dichloroethane				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, Tota	al	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-Tetrachloros and		ND		ug/kg	0.48		1
Benzene		ND		ug/kg	0.48		1
Toluene	<u> </u>	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



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 13:35
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

ck/yene ND ug/kg 0.9 1 kylenes, Total ND ug/kg 9.97 1 kylenes, Total ND ug/kg 9.97 1 sis-1,2-Dichloroethene ND ug/kg 0.97 1 zibronomethane ND ug/kg 1.9 1 zibronomethane ND ug/kg 0.97 1 zibronomethane ND ug/kg 0.97 1 zibronomethane ND ug/kg 9.7 1 etheryloriduran ND ug/kg 9.9 1 zibrohoriduran	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
	MCP Volatile Organics by EPA 5035	Low - Westboroug	h Lab				
		-		_			
A-Dichlorobenzene ND ug/kg 1.9 -							1
A-Dichlorobenzene ND ug/kg 1.9	·						1
March Modern Mo							
Ame Aylane ND ug/kg 4 1 Aylane ND ug/kg 0.3							1
xXylene ND ug/kg 0.8 1 xylenes, Total ND ug/kg 9.37 1 xylenes, Total ND ug/kg 9.37 1 xylenes, Total ND ug/kg 0.97 1 xylene, Total ND ug/kg 0.97 1 xylene, Total ND ug/kg 0.97 1 xylene ND ug/kg 9.7					1.9		1
ND	p/m-Xylene						
ND	o-Xylene						
1	Xylenes, Total	ND		ug/kg			
ND	cis-1,2-Dichloroethene	ND			.97		1
ND	1,2-Dichloroethene, Total	ND		g/kg	0.97		1
Styrene ND lokkg 0.97 1 Dichlorodifluoromethane ND ug/kg 9.7 1 Scetone 250 ug/kg 9.7 1 Cetone 250 ug/kg 9.7 1 Arebryl ethyl ketone ND ug/kg 9.7 1 Methyl isobutyl ketone ND ug/kg 9.7 1 Memoration ND ug/kg 9.7 1 Memoration ND ug/kg 1.9 1 <t< td=""><td>Dibromomethane</td><td>ND</td><td></td><td>g/kg</td><td>1.9</td><td></td><td>1</td></t<>	Dibromomethane	ND		g/kg	1.9		1
ND	1,2,3-Trichloropropane	ND		ug,	1.9		1
sketetone 250 ug/kg 9.7 1 carbon disulfide ND ug/kg 9.7 1 Methyl lethyl ketone AD ug/kg 9.7 1 Methyl isobutyl ketone ND ug/kg 1.9 1 Methyl isobutyl ketone ND ug/kg 1.9 1 Methyl isobutyl ketone ND ug/kg 1.9 1 Bernald Methyl isobutyl ketone ND ug/kg 1.9 1 Methyl isobutyl ketone ND ug/kg 0.97 1 Methyl isobutyl ketone ND ug/kg 0.97 <td>Styrene</td> <td>ND</td> <td></td> <td>₹ /kg</td> <td>0.97</td> <td></td> <td>1</td>	Styrene	ND		₹ /kg	0.97		1
Part bon 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 Hetwanone NE ug/kg 9.7 1 Hetwanone NE ug/kg 9.7 1 Bromochloromethane ND ug/kg 1.9 1 Interphylorographe ND ug/kg 0.97 1 Interphylorographe ND ug/kg 0.97 1 Interphylorographe ND ug/kg 0.97 1	Dichlorodifluoromethane	ND		ng/kg	9.7		1
Methyl ethyl ketone	Acetone	250		ug/kg	9.7		1
Methyl isobutyl ketone	Carbon disulfide	ND		ug/kg	9.7		1
NB	Methyl ethyl ketone	AD .		ug/kg	9.7		1
Second common commendation Second commen	Methyl isobutyl ketone	ND		ug/kg	9.7		1
ND	2-Hexanone	NL		ug/kg	9.7		1
ND	Bromochloromethane			ug/kg	1.9		1
ND	Tetrahydrofuran	ND		ug/kg	3.9		1
ND	2,2-Dichloropropane	ND		ug/kg	1.9		1
ND	1,2-Dibromoethane	ND		ug/kg	0.97		1
ND	1,3-Dichloropropane	ND		ug/kg	1.9		1
ND	1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48		1
ND	Bromobenzene	ND		ug/kg	1.9		1
ND	n-Butylbenzene	ND		ug/kg	0.97		1
ND	sec-Butylbenzene	ND		ug/kg	0.97		1
ND	tert-Butylbenzene	ND		ug/kg	1.9		1
Chlorotoluene ND ug/kg 1.9 1 ,2-Dibromo-3-chloropropane ND ug/kg 2.9 1 dexachlorobutadiene ND ug/kg 3.9 1 sopropylbenzene ND ug/kg 0.97 1 sopropyltoluene ND ug/kg 0.97 1 Japhthalene 13 ug/kg 3.9 1	o-Chlorotoluene	ND		ug/kg	1.9		1
,2-Dibromo-3-chloropropane ND ug/kg 2.9 1 dexachlorobutadiene ND ug/kg 3.9 1 sopropylbenzene ND ug/kg 0.97 1 l-Isopropyltoluene ND ug/kg 0.97 1 laphthalene 13 ug/kg 3.9 1	p-Chlorotoluene	ND			1.9		1
dexachlorobutadiene ND ug/kg 3.9 1 sopropylbenzene ND ug/kg 0.97 1 r-Isopropyltoluene ND ug/kg 0.97 1 Japhthalene 13 ug/kg 3.9 1	1,2-Dibromo-3-chloropropane	ND			2.9		1
sopropylbenzene ND ug/kg 0.97 1 -Isopropyltoluene ND ug/kg 0.97 1 Japhthalene 13 ug/kg 3.9 1	Hexachlorobutadiene	ND			3.9		1
ND	Isopropylbenzene	ND			0.97		1
laphthalene 13 ug/kg 3.9 1	p-Isopropyltoluene	ND			0.97		1
	Naphthalene	13					1
	n-Propylbenzene	ND		ug/kg	0.97		1



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 13:35

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5035	Low - Westborough	n 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.9		1	
Diethyl ether	ND		ug/kg	1.9	·	1	
Diisopropyl Ether	ND		ug/kg			1	
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5		1	
Tertiary-Amyl Methyl Ether	ND		ug/kg	19		1	
1,4-Dioxane	ND		ug/kg	1		1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	97	70-130	
Dibromofluoromethane	97	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101 Client ID: B-09 (1-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 09:54 Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/16/19 01:46

Analytical Date:	09/16/19 01:46						
Analyst:	NLK						
Percent Solids:	93%						
					•		
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organ	ics by EPA 5035 Lov	v - Westboroug	h Lab				
Methylene chloride		ND		و/kg	3.6		1
1,1-Dichloroethane		ND		g/kg	0.73		1
Chloroform		ND		ug _n .	1.1		1
Carbon tetrachloride		ND		L (kg	0.73		1
1,2-Dichloropropane		ND		rg/kg	0.73		1
Dibromochloromethane		ND		ug/kg	0.73		1
1,1,2-Trichloroethane		ND		ug/kg	0.73		1
Tetrachloroethene		1D		ug/kg	0.36		1
Chlorobenzene		ND		ug/kg	0.36		1
Trichlorofluoromethane		NL		ug/kg	2.9		1
1,2-Dichloroethane				ug/kg	0.73		1
1,1,1-Trichloroethane	<u> </u>	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
1,1,2,2-Tetrachloroe ane		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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101 Client ID: B-09 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 09:54

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low -	Westborougl	n Lab				
Trichloroethene	ND		ug/kg	0.36		<u> </u>
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
o-Xylene	ND		ug/kg	0.7		1
Xylenes, Total	ND		ug/kg	0.73		1
cis-1,2-Dichloroethene	ND		ug/kg	.13		1
1,2-Dichloroethene, Total	ND		y ₄/kg	0.73		1
Dibromomethane	ND		g/kg	1.4		1
1,2,3-Trichloropropane	ND		ug	1.4		1
Styrene	ND	_	u (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 N		ug/kg	7.3		1
Methyl isobutyl ketone	ND		ug/kg	7.3		1
2-Hexanone	NL		ug/kg	7.3		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

Date Collected:

SAMPLE RESULTS

Lab ID: L1940717-101

Client ID: B-09 (1-3)
Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Field Prep:

09/05/19 09:54

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5	035 Low - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.4		1	
Diethyl ether	ND		ug/kg	1.4	-	1	
Diisopropyl Ether	ND		ug/kg	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	8		1	

Surrogate	% Recovery C	Acceptance Qualifier Criteria
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	105	70-130
Dibromofluoromethane	100	70-130



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-105 Client ID: B-09 (5-7)-2

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 10:02 Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C 09/16/19 10:09 Analytical Date:

Analytical Date:	09/16/19 10:09						•
Analyst:	JC						
Percent Solids:	92%						
							,
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organ	nics by EPA 5035 Low	v - Westboroug	h Lab				
Methylene chloride		ND		يا/kg	5.3		1
1,1-Dichloroethane		ND		g/kg	1.1		1
Chloroform		ND		ug/.	1.6		1
Carbon tetrachloride		ND		u (kg	1.1		1
1,2-Dichloropropane		ND		ng/kg	1.1		1
Dibromochloromethane		ND		ug/kg	1.1		1
1,1,2-Trichloroethane		ND		ug/kg	1.1		1
Tetrachloroethene		(D		ug/kg	0.53		1
Chlorobenzene		ND		ug/kg	0.53		1
Trichlorofluoromethane		NL		ug/kg	4.3		1
1,2-Dichloroethane				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, Tota	l	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-Tetrachloroe ane		ND		ug/kg	0.53		1
Benzene		ND		ug/kg	0.53		1
Toluene	<u> </u>	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



Serial_No:09201912:30

09/05/19 10:02

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Project Number: 17001426

Lab ID: L1940717-105
Client ID: B-09 (5-7)-2
Sample Location: LAWRENCE, MA

TOMBARELLO SITE

Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035	Low - Westboroug	h 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		
1,4-Dichlorobenzene	ND		ug/kg	2.1		1
Methyl tert butyl ether	ND		ug/kg	2.1		1
p/m-Xylene	ND		ug/kg			1
o-Xylene	ND		ug/kg	1.1		1
Xylenes, Total	ND		ug/kg	11		1
cis-1,2-Dichloroethene	ND		ug/kg	.1		1
1,2-Dichloroethene, Total	ND		g/kg	1.1		1
Dibromomethane	ND		g/kg	2.1		1
1,2,3-Trichloropropane	ND		ug,	2.1		1
Styrene	ND		₹ /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	AD .		ug/kg	11		1
Methyl isobutyl ketone	ND		ug/kg	11		1
2-Hexanone	NL		ug/kg	11		1
Bromochloromethane			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
			5 5			



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Received: 09/06/19
Field Prep: Not Specified

09/05/19 10:02

Date Collected:

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5035 Lov	v - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	2.1		1	
Diethyl ether	ND		ug/kg	2.1	·	1	
Diisopropyl Ether	ND		ug/kg		—	1	
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1		1	
Tertiary-Amyl Methyl Ether	ND		ug/kg	21		1	
1,4-Dioxane	ND		ug/kg	J6		1	

Surrogate	% Recovery Qu	Acceptance alifier Criteria	_
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	106	70-130	
4-Bromofluorobenzene	114	70-130	
Dibromofluoromethane	100	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113 Client ID: B-05 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 10:54 Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 18:32

Analyst: NLK Parameter Result Qualifier Units RL JobL Dilution Factor MCP Volatile Organics by EPA 5035 High - Westborough Lab Westborough Lab Westborough Lab Seal 1 1 Methylene chloride ND g/kg 340 - 1 Chlorolofm ND up/kg 68 - 1 Chlorolofmenene ND up/kg 68 - 1 Chronotheranchiorde ND up/kg 68 - 1 Dibromochloromethane ND up/kg 68 - 1 Tetrachlorocethane ND up/kg 68 - 1 Tetrachlorocethane ND up/kg 34 - 1 1,12-Trichlorocethane ND up/kg 34 - 1 1,12-Trichlorocethane ND up/kg 34 - 1 1,13-Trichlorocethane ND up/kg 34 - 1	Analytical Date:	09/15/19 18:32						
Parameter Result Qualifier Units RL MDL Dilution Factor MCP Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5036 High - West Volatile Organics b	Analyst:							
Parameter Result Qualifier Units RL MDL Dilution Factor MCP Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5036 High - West Volatile Organics b	Percent Solids:	87%						
Parameter Result Qualifier Units RL MDL Dilution Factor MCP Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5036 High - West Volatile Organics b								
Parameter Result Qualifier Units RL MDL Dilution Factor MCP Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5036 High - West Volatile Organics b								
Parameter Result Qualifier Units RL MDL Dilution Factor MCP Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5035 High - West Volatile Organics by EPA 5036 High - West Volatile Organics b								
MCP Volatile Organics by EPA 5035 High - Westborough Lab Methylene chloride ND 3/kg 340 1 1,1-Dichloroethane ND br/kg 68 1 Chloroform ND ug/kg 68 1 Carbon tetrachloride ND ug/kg 68 1 1,2-Dichloropropane ND ug/kg 68 1 Dibromochtoromethane ND ug/kg 68 1 1,1,2-Trichloroethane ND ug/kg 68 1 1,1,2-Trichloroethane ND ug/kg 68 1 1,1,2-Trichloroethane ND ug/kg 68 1 Chlorobenzene ND ug/kg 34 1 Trichlorofluoromethane ND ug/kg 34 1 L-2-Dichlorophothane ND ug/kg 68 1 1,1-1-Trichloroethane								
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trans-1,2-Dichloroethene ND ug/kg 100 1	1,1-Dichloroethene				ug/kg	68		1
	trans-1,2-Dichloroethene		ND		ug/kg	100		1



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113 Client ID: B-05 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 10:54

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High	- Westboroug	ıh Lab				
Trichloroethene	490		ug/kg	34		<u> </u>
1,2-Dichlorobenzene	ND		ug/kg	140		1
1,3-Dichlorobenzene	ND		ug/kg	140		
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		
Xylenes, Total	ND		ug/kg	68		 1
cis-1,2-Dichloroethene	ND		ug/kg	J8		 1
1,2-Dichloroethene, Total	ND		dg/kg /kg	68		 1
Dibromomethane	ND		g/kg	140		
1,2,3-Trichloropropane	ND			140		 1
Styrene	ND		ug, u (kg	68		1
Dichlorodifluoromethane	ND		ug/kg	680		1
Acetone	ND A		ug/kg	680		1
Carbon disulfide	ND		ug/kg	680		
Methyl ethyl ketone	ND ND		ug/kg	680		1
Methyl isobutyl ketone	ND		ug/kg	680		1
2-Hexanone	NL		ug/kg	680		 1
Bromochloromethane	/ ME		ug/kg	140		1
Tetrahydrofuran	ND		ug/kg	270		
2,2-Dichloropropane	ND		ug/kg	140		1
1,2-Dibromoethane	ND		ug/kg	68		
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		
sec-Butylbenzene	ND			68		1
tert-Butylbenzene	ND		ug/kg 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 ug/kg	270		
n-Propylbenzene	ND		ug/kg	68		1
1111093001120110	ND		ug/Ng			



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113

Client ID: B-05 (1-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 10:54

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5035	High - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	140		1	
Diethyl ether	ND		ug/kg	140	·	1	
Diisopropyl Ether	ND		ug/kg	1.5		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	+00		1	

Surrogate	% Recovery Qu	Acceptance alifier Criteria	
1,2-Dichloroethane-d4	99	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	98	70-130	
Dibromofluoromethane	91	70-130	



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 10:57 Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 22:57

Analytical Date:	09/15/19 22:57						
Analyst:	NLK						
Percent Solids:	69%						
					•		
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Low	- Westboroug	h Lab				
Methylene chloride		ND		g/kg	5.1		1
1,1-Dichloroethane		ND		g/kg	1.0		1
Chloroform		ND		ug/.	1.5		1
Carbon tetrachloride		ND		u (kg	1.0		1
1,2-Dichloropropane		ND		ng/kg	1.0		1
Dibromochloromethane		ND		ug/kg	1.0		1
1,1,2-Trichloroethane		ND		ug/kg	1.0		1
Tetrachloroethene		5.2		ug/kg	0.51		1
Chlorobenzene		ND		ug/kg	0.51		1
Trichlorofluoromethane		NL		ug/kg	4.1		1
1,2-Dichloroethane				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	e	ND		ug/kg	1.0		1
cis-1,3-Dichloropropene		ND		ug/kg	0.51		1
1,3-Dichloropropene, Tota	al	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-Tetrachloros and		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



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 10:57
Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035	5 Low - Westborough	n 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		
1,4-Dichlorobenzene	ND		ug/kg	2.0		1
Methyl tert butyl ether	ND		ug/kg	2.0	-	1
p/m-Xylene	ND		ug/kg	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	0.0		1
1,2-Dichloroethene, Total	ND		₃/kg	1.0		1
Dibromomethane	ND	_	g/kg	2.0		1
1,2,3-Trichloropropane	ND		ug,	2.0		1
Styrene	ND	_	∟ √kg	1.0		1
Dichlorodifluoromethane	ND		ng/kg	10		1
Acetone	120		ug/kg	10		1
Carbon disulfide	ND		ug/kg	10		1
Methyl ethyl ketone	D		ug/kg	10		1
Methyl isobutyl ketone	ND		ug/kg	10		1
2-Hexanone	NL		ug/kg	10		1
Bromochloromethane			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



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 10:57 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5	035 Low - Westborough	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	2.0		1	
Diethyl ether	ND		ug/kg	2.0		1	
Diisopropyl Ether	ND		ug/kg	7.5		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	<i>s</i> 2		1	

Surrogate	% Recovery	Acceptance Qualifier Criteria
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130
Dibromofluoromethane	99	70-130



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138 Client ID: SB-1 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:36

Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 20:57

Analytical Date:	09/15/19 20:57						
Analyst:	NLK						
Percent Solids:	92%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organ	nics by EPA 5035 Low	- Westboroug	h Lab				
Methylene chloride		ND		₫/kg	4.6		1
1,1-Dichloroethane		ND		g/kg	0.93		1
Chloroform		ND		ug).	1.4		1
Carbon tetrachloride		ND	<u> </u>	u (kg	0.93		1
1,2-Dichloropropane		ND		ng/kg	0.93		1
Dibromochloromethane		ND		ug/kg	0.93		1
1,1,2-Trichloroethane		ND		ug/kg	0.93		1
Tetrachloroethene		.91		ug/kg	0.46		1
Chlorobenzene		ND		ug/kg	0.46		1
Trichlorofluoromethane		NL		ug/kg	3.7		1
1,2-Dichloroethane				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, Tota	al	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-Tetrachloro		ND		ug/kg	0.46		1
Benzene		ND		ug/kg	0.46		1
Toluene	<u> </u>	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

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138 Client ID: SB-1 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:36 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035	Low - Westborough	n 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		
1,4-Dichlorobenzene	ND		ug/kg	1.9		1
Methyl tert butyl ether	ND		ug/kg	1.9	-	1
p/m-Xylene	ND		ug/kg			1
o-Xylene	ND		ug/kg	0.9		1
Xylenes, Total	ND		ug/kg	9.93		1
cis-1,2-Dichloroethene	ND		ug/kg	.93		1
1,2-Dichloroethene, Total	ND		y/kg	0.93		1
Dibromomethane	ND		g/kg	1.9		1
1,2,3-Trichloropropane	ND		ug,	1.9		1
Styrene	ND	_	u √kg	0.93		1
Dichlorodifluoromethane	ND		ug/kg	9.3		1
Acetone	280	F	ug/kg	9.3		1
Carbon disulfide	ND		ug/kg	9.3		1
Methyl ethyl ketone	,ij		ug/kg	9.3		1
Methyl isobutyl ketone	ND		ug/kg	9.3		1
2-Hexanone	NL		ug/kg	9.3		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138

TOMBARELLO SITE

17001426

Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

Date Received: 09/06/19
Field Prep: Not Specified

09/05/19 13:36

Date Collected:

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5035 Low	- Westboroug	h Lab					
1,2,3-Trichlorobenzene	ND			1.9		1	
1,2,3-THCHIOTODENZENE	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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.9		1	
Diethyl ether	ND		ug/kg	1.9		1	
Diisopropyl Ether	ND		ug/kg			1	
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5		1	
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9		1	
1,4-Dioxane	ND		ug/kg	.4		1	

Surrogate	% Recovery G	Acceptance qualifier Criteria	
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	106	70-130	
4-Bromofluorobenzene	118	70-130	
Dibromofluoromethane	100	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138 Client ID: SB-1 (1-2)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:36 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/16/19 20:46

Analytical Date:	09/16/19 20:46						
Analyst:	MV						
Percent Solids:	92%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	anics by EPA 5035 Hig	h - Westborouc	nh Lab				
mer veidine erge			j.				
Methylene chloride		ND		و/kg	270		1
1,1-Dichloroethane		ND	_	g/kg	54		1
Chloroform		ND		ug/.	81		1
Carbon tetrachloride		ND	A	L (kg	54		1
1,2-Dichloropropane		ND		ng/kg	54		1
Dibromochloromethane		ND		ug/kg	54		1
1,1,2-Trichloroethane		ND		ug/kg	54		1
Tetrachloroethene		45		ug/kg	27		1
Chlorobenzene		ND		ug/kg	27		1
Trichlorofluoromethane	,	NL		ug/kg	220		1
1,2-Dichloroethane				ug/kg	54		1
1,1,1-Trichloroethane		ND		ug/kg	27		1
Bromodichloromethane		ND		ug/kg	27		1
trans-1,3-Dichloropropen	ne	ND		ug/kg	54		1
cis-1,3-Dichloropropene		ND		ug/kg	27		1
1,3-Dichloropropene, Tot	tal	ND		ug/kg	27		1
1,1-Dichloropropene		ND		ug/kg	27		1
Bromoform		ND		ug/kg	220		1
1,1,2,2-Tetrachloroe an	е	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

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID:

TOMBARELLO SITE

17001426

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:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035	High - Westboroug	h Lab				
Trichloroethene	ND		ug/kg	27		1
1,2-Dichlorobenzene	ND		ug/kg	110		1
1,3-Dichlorobenzene	ND		ug/kg	110		
1,4-Dichlorobenzene	ND		ug/kg	110		1
Methyl tert butyl ether	ND		ug/kg	110	-	1
p/m-Xylene	ND		ug/kg	1 0		1
o-Xylene	ND		ug/kg	54		1
Xylenes, Total	ND		ug/kg	54		1
cis-1,2-Dichloroethene	ND		ug/kg	<i>5</i> 4		1
1,2-Dichloroethene, Total	ND		J/kg	54		1
Dibromomethane	ND		g/kg	110		1
1,2,3-Trichloropropane	ND		ug/.	110		1
Styrene	ND	_	ℓ (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	,D		ug/kg	540		1
Methyl isobutyl ketone	ND		ug/kg	540		1
2-Hexanone	NL		ug/kg	540		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138

Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High	n - Westboroug	h Lab				
1,2,3-Trichlorobenzene	ND		ug/kg	110		1
	ND		0 0			1
1,2,4-Trichlorobenzene			ug/kg	110		
1,3,5-Trimethylbenzene	ND		ug/kg	110		
1,2,4-Trimethylbenzene	ND		ug/kg	110		1
Diethyl ether	ND		ug/kg	110		1
Diisopropyl Ether	ND		ug/kg	10		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 Criteria	_
1,2-Dichloroethane-d4	100 70-130	
Toluene-d8	70-130	
4-Bromofluorobenzene	98 70-130	
Dibromofluoromethane	92 70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139 Client ID: SB-1 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:39 Date Received: 09/06/19

Not Specified

Field Prep:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

97,8260C Analytical Method: Analytical Date: 09/15/19 21:21

Analytical Date: Analyst:	09/15/19 21:21 NLK						
Percent Solids:	90%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	anics by EPA 5035 Low	- Westboroug	h Lab				
Methylene chloride		ND		ي/kg	4.0		1
1,1-Dichloroethane		ND		g/kg	0.79		1
Chloroform		ND		ug _n .	1.2		1
Carbon tetrachloride		ND		u (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		.61		ug/kg	0.40		1
Chlorobenzene		ND		ug/kg	0.40		1
Trichlorofluoromethane		NL		ug/kg	3.2		1
1,2-Dichloroethane				ug/kg	0.79		1
1,1,1-Trichloroethane	<u> </u>	ND		ug/kg	0.40		1
Bromodichloromethane		ND		ug/kg	0.40		1
trans-1,3-Dichloroproper	ne	ND		ug/kg	0.79		1
cis-1,3-Dichloropropene		ND		ug/kg	0.40		1
1,3-Dichloropropene, To	tal	ND		ug/kg	0.40		1
1,1-Dichloropropene		ND		ug/kg	0.40		1
Bromoform		ND		ug/kg	3.2		1
1,1,2,2-Tetrachloros an	e	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

ND

ND



1

1

0.79

1.2

ug/kg

ug/kg

1,1-Dichloroethene

trans-1,2-Dichloroethene

Serial_No:09201912:30

09/05/19 13:39

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139

Client ID: SB-1 (2-3)
Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

_ . _ .

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 503	5 Low - Westborougl	h 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		
1,4-Dichlorobenzene	ND		ug/kg	1.6		1
Methyl tert butyl ether	ND		ug/kg	1.6		1
p/m-Xylene	ND		ug/kg			1
o-Xylene	ND		ug/kg	0.7	<u> </u>	
Xylenes, Total	ND		ug/kg	9.79		1
cis-1,2-Dichloroethene	ND		ug/kg	.79		1
1,2-Dichloroethene, Total	ND		₃/kg	0.79		1
Dibromomethane	ND		g/kg	1.6		1
1,2,3-Trichloropropane	ND		ug,	1.6		1
Styrene	ND	<u> </u>	ι √kg	0.79		1
Dichlorodifluoromethane	ND		ng/kg	7.9		1
Acetone	130		ug/kg	7.9		1
Carbon disulfide	ND		ug/kg	7.9		1
Methyl ethyl ketone	ND I		ug/kg	7.9		1
Methyl isobutyl ketone	ND		ug/kg	7.9		1
2-Hexanone	NL		ug/kg	7.9		1
Bromochloromethane			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
- F. 7	110		~9/N9	J J		•



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139

TOMBARELLO SITE

17001426

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:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 5035 Low	- Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.6		1	
Diethyl ether	ND		ug/kg	1.6	·	1	
Diisopropyl Ether	ND		ug/kg	18	—	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	J3		1	

Surrogate	% Recovery C	Acceptance ualifier Criteria	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	701	70-130	
4-Bromofluorobenzene	103	70-130	
Dibromofluoromethane	97	70-130	



Serial_No:09201912:30 Lab Number:

Report Date: 09/20/19

L1940717

SAMPLE RESULTS

TOMBARELLO SITE

17001426

Lab ID: L1940717-140 Client ID: SB-DUP-1

Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/16/19 10:33

Date Collected:	09/05/19 00:00
Date Received:	09/06/19
Field Prep:	Not Specified

Analytical Date:	09/16/19 10:33						
Analyst:	JC						
Percent Solids:	95%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Lo	w - Westboroug	h Lab				
Methylene chloride		ND		₫/kg	3.6		1
1,1-Dichloroethane		ND		g/kg	0.72		1
Chloroform		ND			1.1		1
Carbon tetrachloride		ND ND		ugh. L. (kg	0.72		1
1,2-Dichloropropane		ND		rg/kg	0.72		1
Dibromochloromethane		ND A		ug/kg	0.72		1
1,1,2-Trichloroethane		ND ND		•	0.72		1
Tetrachloroethene		.66		ug/kg	0.72		1
Chlorobenzene		ND ND		ug/kg	0.36	<u> </u>	1
Trichlorofluoromethane				ug/kg	2.9		1
1,2-Dichloroethane		NL		ug/kg	0.72		1
1,1,1-Trichloroethane		ND		ug/kg	0.72		1
Bromodichloromethane		ND		ug/kg	0.36	<u></u>	1
		ND ND		ug/kg	0.36		1
trans-1,3-Dichloropropen	e	ND ND		ug/kg	0.72		1
cis-1,3-Dichloropropene				ug/kg			
1,3-Dichloropropene, Tot	aı	ND		ug/kg	0.36		1
1,1-Dichloropropene		ND		ug/kg	0.36		1
Bromoform		ND		ug/kg	2.9		1
1,1,2,2-Tetrachloros and	e	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

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
Client ID: SB-DUP-1

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 00:00

Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low -	Westborough	h 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
o-Xylene	ND		ug/kg	0.7.		1
Xylenes, Total	ND		ug/kg	9.72		1
cis-1,2-Dichloroethene	ND		ug/kg	.12		1
1,2-Dichloroethene, Total	ND		√ √/kg	0.72		1
Dibromomethane	ND	_	g/kg	1.4		1
1,2,3-Trichloropropane	ND		ug	1.4		1
Styrene	ND	<u> </u>	u (kg	0.72		1
Dichlorodifluoromethane	ND		иg/kg	7.2		1
Acetone	ND		ug/kg	7.2		1
Carbon disulfide	ND		ug/kg	7.2		1
Methyl ethyl ketone	10		ug/kg	7.2		1
Methyl isobutyl ketone	ND		ug/kg	7.2		1
2-Hexanone	NL		ug/kg	7.2		1
Bromochloromethane			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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140

Client ID: SB-DUP-1 Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 00:00 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 503	35 Low - Westborougl	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	1.4		1	
Diethyl ether	ND		ug/kg	1.4	·	1	
Diisopropyl Ether	ND		ug/kg			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	sī		1	

Surrogate	% Recovery Q	Acceptance ualifier Criteria	
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	107	70-130	
4-Bromofluorobenzene	115	70-130	
Dibromofluoromethane	97	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143 Client ID: SB-1 (5-7)-2

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/15/19 22:33 Date Collected: 09/05/19 13:48 Date Received: 09/06/19 Field Prep: Not Specified

Analytical Date:	09/15/19 22:33						
Analyst:	NLK						
Percent Solids:	79%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	nics by EPA 5035 Lov	w - Westboroug	h Lab				
Methylene chloride		ND		⊌/kg	8.1		1
1,1-Dichloroethane		ND		g/kg	1.6		1
Chloroform		ND		ug/.	2.4		1
Carbon tetrachloride		ND		u (kg	1.6		1
1,2-Dichloropropane		ND		ng/kg	1.6		1
Dibromochloromethane		ND		ug/kg	1.6		1
1,1,2-Trichloroethane		ND		ug/kg	1.6		1
Tetrachloroethene		.4		ug/kg	0.81		1
Chlorobenzene		ND		ug/kg	0.81		1
Trichlorofluoromethane		NL		ug/kg	6.5		1
1,2-Dichloroethane				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-Dichloropropen	e	ND		ug/kg	1.6		1
cis-1,3-Dichloropropene		ND		ug/kg	0.81		1
1,3-Dichloropropene, Tot	al	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-Tetrachloroe and		ND		ug/kg	0.81		1
Benzene		ND		ug/kg	0.81		1
Toluene	<u> </u>	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

Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:48
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low -	Westborougl	h Lab				
Trichloroethene	ND		ug/kg	0.81		<u> </u>
1,2-Dichlorobenzene	ND		ug/kg	3.2		1
1,3-Dichlorobenzene	ND		ug/kg	3.2		
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			1
o-Xylene	ND		ug/kg	1.6		1
Xylenes, Total	ND		ug/kg	1.6		1
cis-1,2-Dichloroethene	ND		ug/kg	6		1
1,2-Dichloroethene, Total	ND		y ₄/kg	1.6		1
Dibromomethane	ND		g/kg	3.2		1
1,2,3-Trichloropropane	ND		ug.	3.2		1
Styrene	ND	<u> </u>	ℓ (kg	1.6		1
Dichlorodifluoromethane	ND		ug/kg	16		1
Acetone	560	F	ug/kg	16		1
Carbon disulfide	ND		ug/kg	16		1
Methyl ethyl ketone	10		ug/kg	16		1
Methyl isobutyl ketone	ND		ug/kg	16		1
2-Hexanone	NL		ug/kg	16		1
Bromochloromethane			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



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:48
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - V	Westboroug	h Lab				
4.0.0 Trickleuch conses	ND			2.2		A
1,2,3-Trichlorobenzene	ND		ug/kg	3.2		
1,2,4-Trichlorobenzene	ND		ug/kg	3.2		1
1,3,5-Trimethylbenzene	ND		ug/kg	3.2		
1,2,4-Trimethylbenzene	ND		ug/kg	3.2		1
Diethyl ether	ND		ug/kg	3.2	·	1
Diisopropyl Ether	ND		ug/kg			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	30		1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	103	70-130	
Dibromofluoromethane	98	70-130	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143 Client ID: SB-1 (5-7)-2

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:48 Date Received:

09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8260C Analytical Date: 09/16/19 21:10

Analytical Date:	09/16/19 21:10						
Analyst:	MV						
Percent Solids:	79%						
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Orga	anics by EPA 5035 Hig	h - Westboroud	nh Lab				
mer veidine erge			j.				
Methylene chloride		ND		الع/kg	590		1
1,1-Dichloroethane		ND		g/kg	120		1
Chloroform		ND		ug/.	180		1
Carbon tetrachloride		ND	•	u (kg	120		1
1,2-Dichloropropane		ND		ng/kg	120		1
Dibromochloromethane		ND		ug/kg	120		1
1,1,2-Trichloroethane		ND		ug/kg	120		1
Tetrachloroethene		J 1		ug/kg	59		1
Chlorobenzene		ND		ug/kg	59		1
Trichlorofluoromethane	,	NL		ug/kg	470		1
1,2-Dichloroethane				ug/kg	120		1
1,1,1-Trichloroethane	<u> </u>	ND		ug/kg	59		1
Bromodichloromethane		ND		ug/kg	59		1
trans-1,3-Dichloropropen	ne	ND		ug/kg	120		1
cis-1,3-Dichloropropene		ND		ug/kg	59		1
1,3-Dichloropropene, Tot	tal	ND		ug/kg	59		1
1,1-Dichloropropene		ND		ug/kg	59		1
Bromoform		ND		ug/kg	470		1
1,1,2,2-Tetrachloroe an	е	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	1	ND		ug/kg	180		1

Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:48
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035			Cinto			2.10.10.11.10.10.1
Wor Volatile Organies by Et A 3030	Trigit Westboloug	JII LUD				
Trichloroethene	ND		ug/kg	59		1
1,2-Dichlorobenzene	ND		ug/kg	240		1
1,3-Dichlorobenzene	ND		ug/kg	240		
1,4-Dichlorobenzene	ND		ug/kg	240		1
Methyl tert butyl ether	ND		ug/kg	240	-	1
p/m-Xylene	ND		ug/kg	2.0	—	1
o-Xylene	ND		ug/kg	120		1
Xylenes, Total	ND		ug/kg	120		1
cis-1,2-Dichloroethene	ND		ug/kg	20		1
1,2-Dichloroethene, Total	ND		kg/kg	120		1
Dibromomethane	ND	_	g/kg	240		1
1,2,3-Trichloropropane	ND		ug	240		1
Styrene	ND	_	ι √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 I		ug/kg	1200		1
Methyl isobutyl ketone	ND		ug/kg	1200		1
2-Hexanone	NL		ug/kg	1200		1
Bromochloromethane			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



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:48

Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Parameter	Result	Result Qualifier		RL	MDL	Dilution Factor	
MCP Volatile Organics by EPA 50	035 High - Westboroug	h 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			
1,2,4-Trimethylbenzene	ND		ug/kg	240		1	
Diethyl ether	ND		ug/kg	240	-	1	
Diisopropyl Ether	ND		ug/kg	7.5		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	300		1	

Surrogate	% Recovery Qu	Acceptance alifier Criteria
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	700	70-130
4-Bromofluorobenzene	98	70-130
Dibromofluoromethane	92	70-130



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

arameter	Result	Qualifier Unit	s	M.JL
ICP Volatile Organics by EPA 5 VG1284397-5	035 Low - We	estborough Lab fo	or sample(s): 15	,17,23 Batch:
Methylene chloride	ND	ug	5.0	
1,1-Dichloroethane	ND	Jg/k	kg 1.0	
Chloroform	ND	g/k	sg 1.5	
Carbon tetrachloride	ND	ug/r	1.0	
1,2-Dichloropropane	ND	L ₂ 4	şg 1.0	
Dibromochloromethane	ND	ag/k	g 1.0	
1,1,2-Trichloroethane	N	ug/k	kg 1.0	
Tetrachloroethene	ND	ug/k	g 0.50	
Chlorobenzene		ug/k	g 0.50	
Trichlorofluoromethane	ND	ug/k	kg 4.0	
1,2-Dichloroethane	ND	ug/k	kg 1.0	
1,1,1-Trichloroethane	ND	ug/k	g 0.50	
Bromodichloromethane	ND	ug/k	g 0.50	
trans-1,3-Dichloropro	ND	ug/k	kg 1.0	
cis-1,3-Dichloroprepene	ND	ug/k	g 0.50	
1,3-Dichlorop	ND	ug/k	g 0.50	
1,1-Dichlo propene	ND	ug/k	g 0.50	
Bromoform	ND	ug/k	kg 4.0	
1,1,2,2-1. trachchane	ND	ug/k	g 0.50	
File	ND	ug/k	g 0.50	
Tolt ne	ND	ug/k	kg 1.0	
Ethylberizene	ND	ug/k	kg 1.0	
Chloromethane	ND	ug/k	kg 4.0	
Bromomethane	ND	ug/k	g 2.0	
Vinyl chloride	ND	ug/k	kg 1.0	
Chloroethane	ND	ug/k	g 2.0	
1,1-Dichloroethene	ND	ug/k	kg 1.0	
trans-1,2-Dichloroethene	ND	ug/k	kg 1.5	
Trichloroethene	ND	ug/k	g 0.50	



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

Parameter	Result	Qualifier	Units		N.JL
MCP Volatile Organics by EPA WG1284397-5	5035 Low - We	stborough L	_ab for s	ample(s): 15,1	,23 Batch:
1,2-Dichlorobenzene	ND		U	2.0	
1,3-Dichlorobenzene	ND		ug/kg	2.0	
1,4-Dichlorobenzene	ND	•	ŋ/kg	2.0	
Methyl tert butyl ether	ND		ug/ks	2.0	
p/m-Xylene	ND	_	u kg	2.0	
o-Xylene	ND		ag/kg	1.0	
Xylenes, Total	Ŋ		ug/kg	1.0	
cis-1,2-Dichloroethene	ND		ug/kg	1.0	
1,2-Dichloroethene, Total			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	ND		ug/kg	10	
Methyl iso utyl keton	ND		ug/kg	10	
2-Heyanor	ND		ug/kg	10	
Bromock promee	ND		ug/kg	2.0	
etrem all	ND		ug/kg	4.0	
2,2 ichloropropane	ND		ug/kg	2.0	
1,2-Dib.omoethane	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	



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



	Acceptance					
Suit	%Recovery Qualifier	Criteria				
1,2-Dichlor ethane-d4	124	70-130				
Toluene-d8	90	70-130				
4-Bromofluorobenzene	86	70-130				
Dibromofluoromethane	104	70-130				



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

Parameter	Result	Qualifier	Units		N.JL	
MCP Volatile Organics by EPA 5 NG1284519-5	035 Low - We	stborough L	_ab for sa	ample(s): 21,2	224 Batch:	
Methylene chloride	ND		Ur	5.0		
1,1-Dichloroethane	ND		ug/kg	1.0		
Chloroform	ND	•	ŋ/kg	1.5		
Carbon tetrachloride	ND		ug/ks	1.0		
1,2-Dichloropropane	ND		u kg	1.0		
Dibromochloromethane	ND		J g/kg	1.0		
1,1,2-Trichloroethane	ŊĽ		ug/kg	1.0		
Tetrachloroethene	ND		ug/kg	0.50		
Chlorobenzene			ug/kg	0.50		
Trichlorofluoromethane	.√D		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-Dichloropro	ND		ug/kg	1.0		
cis-1,3-Dichloropropene	ND		ug/kg	0.50		
1,3-Dichlorop , 3, Total	ND		ug/kg	0.50		
1,1-Dichlo propene	ND		ug/kg	0.50		
Bromeform	ND		ug/kg	4.0		
1,1,2,2-1, trach	ND		ug/kg	0.50		
HILL	ND		ug/kg	0.50		
Tolune	ND		ug/kg	1.0		
Ethylberzene	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		



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

Parameter	Result	Qualifier	Units		MJL
MCP Volatile Organics by EPA 503 VG1284519-5	35 Low - We	estborough L	_ab for sa	ample(s): 21,2	24 Batch:
1,2-Dichlorobenzene	ND		ue "	2.0	
1,3-Dichlorobenzene	ND		ug/kg	2.0	
1,4-Dichlorobenzene	ND	•	ŋ/kg	2.0	
Methyl tert butyl ether	ND		ug/ks	2.0	
p/m-Xylene	ND		u kg	2.0	
o-Xylene	ND		ag/kg	1.0	
Xylenes, Total	N		ug/kg	1.0	
cis-1,2-Dichloroethene	ND		ug/kg	1.0	
1,2-Dichloroethene, Total			ug/kg	1.0	
Dibromomethane	.√D	_	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	ND		ug/kg	10	
Methyl iso utyl ketone	ND		ug/kg	10	
2-Hexanor	ND		ug/kg	10	
Bromock promere	ND		ug/kg	2.0	
Firem, that an	ND		ug/kg	4.0	
2,2 ichloropropane	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	



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

rameter	Result	Qualifier	Units		M.OL
CP Volatile Organics by EPA G1284519-5	5035 Low - We	estborough L	ab for sa	mple(s): 21,2	24 Batch:
p-Chlorotoluene	ND		UC	2.0	
1,2-Dibromo-3-chloropropane	ND		ıg/kg	3.0	
Hexachlorobutadiene	ND	A	g/kg	4.0	
Isopropylbenzene	ND		ug/ks	1.0	
p-Isopropyltoluene	ND	<u> </u>	u, kg	1.0	
Naphthalene	ND		d g/kg	4.0	
n-Propylbenzene	N		ug/kg	1.0	
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	
1,2,4-Trichlorobenzene			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 Metryl Eth	ND		ug/kg	2.0	
1,4-Dioxane	ND		ug/kg	80	

		Acceptance
Suit pate	%Recovery Qualifie	er Criteria
1,2-Dichlor ethane-d4	113	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	87	70-130
Dibromofluoromethane	100	70-130



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

Parameter	Result	Qualifier	Units	0	lv.JL	
MCP Volatile Organics by EPA 50	35 High - W	/estborough	Lab for s	sample(s). 15	3atch:	WG1284521-5
Methylene chloride	ND		ug/kg	30		
1,1-Dichloroethane	ND		_J /kg	50		
Chloroform	ND		ıg/kg	75		
Carbon tetrachloride	ND		u (kg	50		
1,2-Dichloropropane	ND		ıg/kg	50		
Dibromochloromethane	ND		ug, kg	50		
1,1,2-Trichloroethane	ND		ug/kg	50		
Tetrachloroethene	ı		ug/kg	25		
Chlorobenzene	ID		ug/kg	25		
Trichlorofluoromethane			ug/kg	200		
1,2-Dichloroethane	ND		ug/kg	50		
1,1,1-Trichloroethane	ID		ug/kg	25		
Bromodichloromethane	ND		ug/kg	25		
trans-1,3-Dichloroprope	ND		ug/kg	50		
cis-1,3-Dichloroprop	ND		ug/kg	25		
1,3-Dichloropropene, Tota	ND		ug/kg	25		
1,1-Dichlorg ropen	ND		ug/kg	25		
Bromoforr	ND		ug/kg	200		
1,1,2,. Tetrahloroetkane	ND		ug/kg	25		
Benzene	ND		ug/kg	25		
Luene	ND		ug/kg	50		
Ethyl, anzene	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		



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

Parameter	Result	Qualifier	Units		N.JL	
MCP Volatile Organics by EPA	A 5035 High - We	estborough	Lab for	sample(s): 15	Batch:	WG1284521-5
1,2-Dichlorobenzene	ND		ug/kg	30		
1,3-Dichlorobenzene	ND ND		J/kg	100		
1,4-Dichlorobenzene	ND ND		ıg/kg	100		
Methyl tert butyl ether	ND		ug/kg	100		
p/m-Xylene	ND ND		ıg/kg	100		
o-Xylene	ND		ug, kg	50		
Xylenes, Total	ND.		ug/kg	50		
	IND			50		
cis-1,2-Dichloroethene 1,2-Dichloroethene, Total	ID		ug/kg ug/kg	50		
Dibromomethane			ug/kg ug/kg	100		
	ND			100		
1,2,3-Trichloropropane	ND ID		ug/kg	50		
Styrene Dichlorodifluoromethane	ND		ug/kg	500		
			ug/kg			
Acetone	ND		ug/kg	500		
Carbon disulfide	ND		ug/kg	500		
Methyl ethyl ketone	ND		ug/kg	500		
Methyl isobycyl keters	ND		ug/kg	500		
2-Hexano	ND		ug/kg	500		
Brome hlore nethane	ND		ug/kg	100		
Tetrahydi furan	ND		ug/kg	200		
2 3-Dichiolog Spane	ND		ug/kg	100		
1,2-L romoethane	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

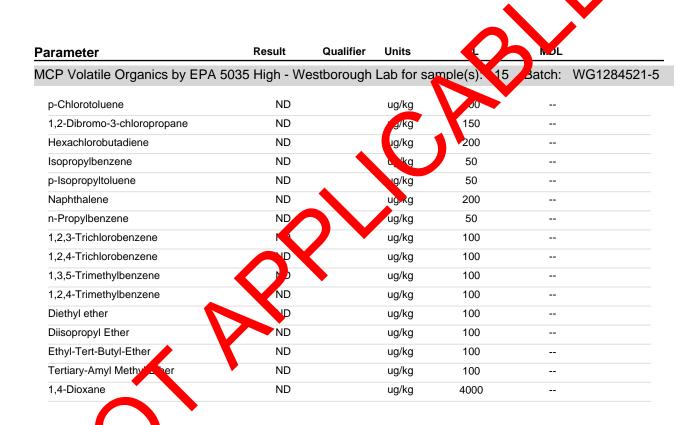
Project Number: 17001426

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



	Acceptance				
Surrogate	%Recovery Qualifier	Criteria			
1,2-Dich roethane-d4	113	70-130			
Toluene-d8	90	70-130			
4-Bromofluorobenzene	87	70-130			
Dibromofluoromethane	100	70-130			



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

Parameter	Result	Qualifier	Units		N.JL
MCP Volatile Organics by EPA 5 NG1284565-5	6035 Low - We	estborough l	Lab for s	ample(s): 27,4	45 Batch:
Methylene chloride	ND		UC	5.0	
1,1-Dichloroethane	ND		ug/kg	1.0	
Chloroform	ND	<u> </u>	ŋ/kg	1.5	
Carbon tetrachloride	ND		ug/ks	1.0	
1,2-Dichloropropane	ND		u kg	1.0	
Dibromochloromethane	ND		g/kg	1.0	
1,1,2-Trichloroethane	N'		ug/kg	1.0	
Tetrachloroethene	ND		ug/kg	0.50	
Chlorobenzene			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-Dichloropror the	ND		ug/kg	1.0	
cis-1,3-Dichloropropene	ND		ug/kg	0.50	
1,3-Dichlorop	ND		ug/kg	0.50	
1,1-Dichloppropene	ND		ug/kg	0.50	
Bromeform	ND		ug/kg	4.0	
1,1,2,2-1 trach. Johane	ND		ug/kg	0.50	
HILL	ND		ug/kg	0.50	
Torune	ND		ug/kg	1.0	
Ethylberzene	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	



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

rameter	Result	Qualifier	Units		N.JL
CP Volatile Organics by EP 31284565-5	A 5035 Low - We	estborough l	_ab for sa	mple(s): 27,4	45 Batch:
,2-Dichlorobenzene	ND		U	2.0	
,3-Dichlorobenzene	ND		ug/kg	2.0	
,4-Dichlorobenzene	ND	•	g/kg	2.0	
Methyl tert butyl ether	ND		ug/ks	2.0	
n/m-Xylene	ND		u (kg	2.0	
o-Xylene	ND		d g/kg	1.0	
(ylenes, Total	N'	JV	ug/kg	1.0	
is-1,2-Dichloroethene	ND		ug/kg	1.0	
,2-Dichloroethene, Total			ug/kg	1.0	
Dibromomethane	.√D		ug/kg	2.0	
,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	ND		ug/kg	10	
Methyl iso utyl keton	ND		ug/kg	10	
2-Hevanor	ND		ug/kg	10	
Bromock prometable	ND		ug/kg	2.0	
Attention of	ND		ug/kg	4.0	
2,2 ichloropropane	ND		ug/kg	2.0	
,2-Dib.omoethane	ND		ug/kg	1.0	
,3-Dichloropropane	ND		ug/kg	2.0	
,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	
Bromobenzene	ND		ug/kg	2.0	
n-Butylbenzene	ND		ug/kg	1.0	
ec-Butylbenzene	ND		ug/kg	1.0	
ert-Butylbenzene	ND		ug/kg	2.0	
o-Chlorotoluene	ND		ug/kg	2.0	



Project Name: TOMBARELLO SITE

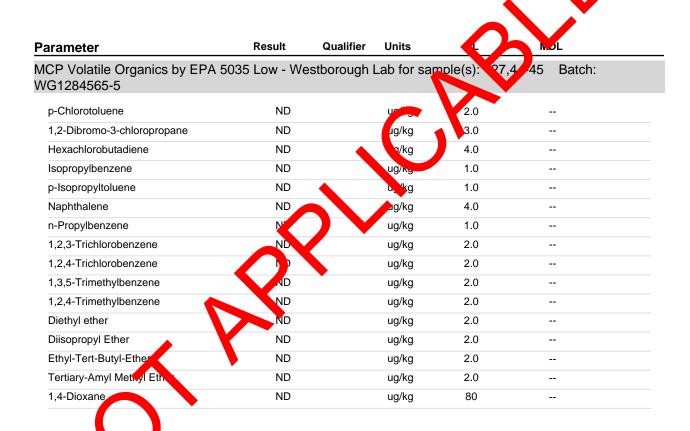
Project Number: 17001426

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



	Acceptance				
Suit 5010	%Recovery Qualifier	Criteria			
1,2-Dichlon ethane-d4	101	70-130			
Toluene-d8	101	70-130			
4-Bromofluorobenzene	97	70-130			
Dibromofluoromethane	91	70-130			



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

Parameter	Result	Qualifier	Units		M.JL	
ACP Volatile Organics by EPA				ample(s): 12,5		Batch:
VG1284596-5	(3033 Flight - VV	esiborougii	Lab ioi s	astiple(s). (2,	,113	Daton.
Methylene chloride	ND		Ue	250		
1,1-Dichloroethane	ND		ug/kg	50		
Chloroform	ND		g/kg	75		
Carbon tetrachloride	ND		ug/kg	50		
1,2-Dichloropropane	ND		u, kg	50		
Dibromochloromethane	ND 🖊		g/kg	50		
1,1,2-Trichloroethane	N		ug/kg	50		
Tetrachloroethene	ND		ug/kg	25		
Chlorobenzene			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-Dichloroprogene	ND		ug/kg	50		
cis-1,3-Dichloropropene	ND		ug/kg	25		
1,3-Dichlorop	ND		ug/kg	25		
1,1-Dichlo propene	ND		ug/kg	25		
Bromoforn	ND		ug/kg	200		
1,1,2,2-, trach, chane	ND		ug/kg	25		
₹n	ND		ug/kg	25		
Tolune	ND		ug/kg	50		
Ethylberizene	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		



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

arameter	Result	Qualifier	Units		M.JL
ICP Volatile Organics by EP/ I/G1284596-5	4 5035 High - W	estborough	Lab for sa	mple(s). 12	,5 ,113 Batch:
1,2-Dichlorobenzene	ND		ue J	100	
1,3-Dichlorobenzene	ND		ıg/kg	100	
1,4-Dichlorobenzene	ND	_	n/kg	100	
Methyl tert butyl ether	ND		ug/kg	100	
p/m-Xylene	ND		u kg	100	
o-Xylene	ND		ag/kg	50	
Xylenes, Total	N'	JV	ug/kg	50	
cis-1,2-Dichloroethene	ND		ug/kg	50	
1,2-Dichloroethene, Total			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	ND		ug/kg	500	
Methyl iso utyl keton	ND		ug/kg	500	
2-Heranon	ND		ug/kg	500	
Bromock prometance	ND		ug/kg	100	
Fire that an	ND		ug/kg	200	
2,2 ichloropropane	ND		ug/kg	100	
1,2-Dib-omoethane	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

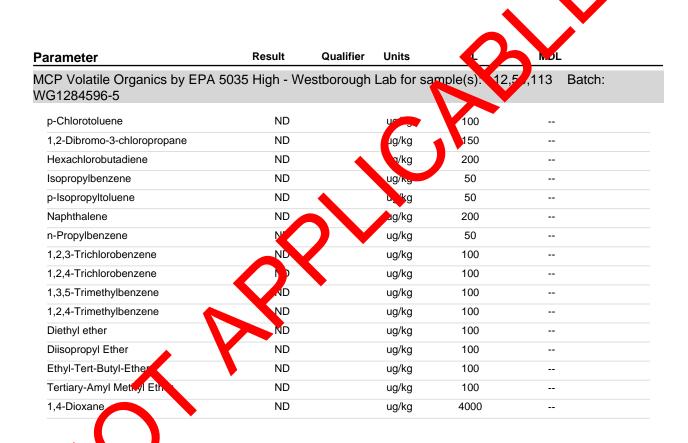
Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C Analytical Date: 09/15/19 17:36



	Acceptance				
Sun pate	%Recovery Qualifi	er Criteria			
1,2-Dichlor ethane-d4	102	70-130			
Toluene-d8	101	70-130			
4-Bromofluorobenzene	98	70-130			
Dibromofluoromethane	92	70-130			



Project Name: TOMBARELLO SITE

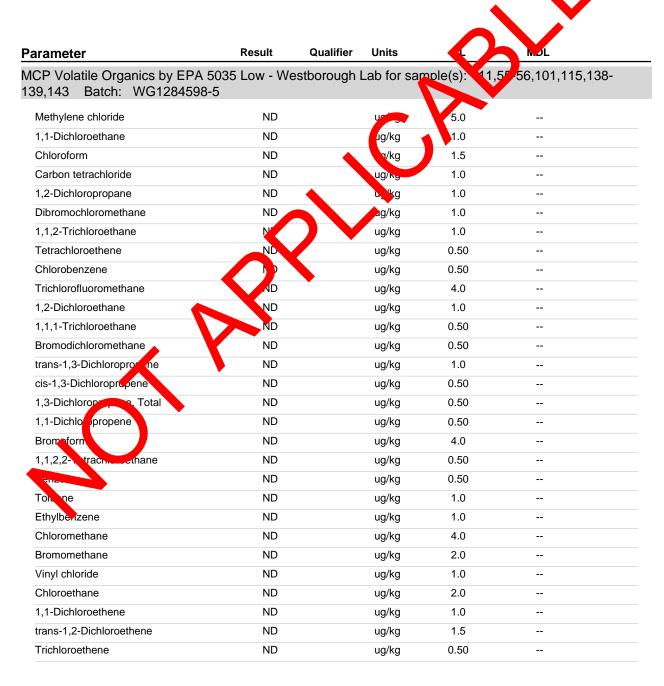
Project Number: 17001426

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





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

	.	0 115			
Parameter	Result	Qualifier	Units		N.J.L
MCP Volatile Organics by EPA 39,143 Batch: WG128459		stborough l	_ab for sa	ample(s): 11,	56,101,115,138-
1,2-Dichlorobenzene	ND		UC J	2.0	
1,3-Dichlorobenzene	ND		ug/kg	2.0	
1,4-Dichlorobenzene	ND	•	g/kg	2.0	
Methyl tert butyl ether	ND		ug/kg	2.0	
p/m-Xylene	ND		u kg	2.0	
o-Xylene	ND		d g/kg	1.0	
Xylenes, Total	Ŋ		ug/kg	1.0	
cis-1,2-Dichloroethene	ND		ug/kg	1.0	
1,2-Dichloroethene, Total			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	ND		ug/kg	10	
Methyl iso utyl keton	ND		ug/kg	10	
2-Hevanor	ND		ug/kg	10	
Bromock promee	ND		ug/kg	2.0	
Street, JU	ND		ug/kg	4.0	
2,2 ichloropropane	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	



Project Name: TOMBARELLO SITE

Project Number: 17001426

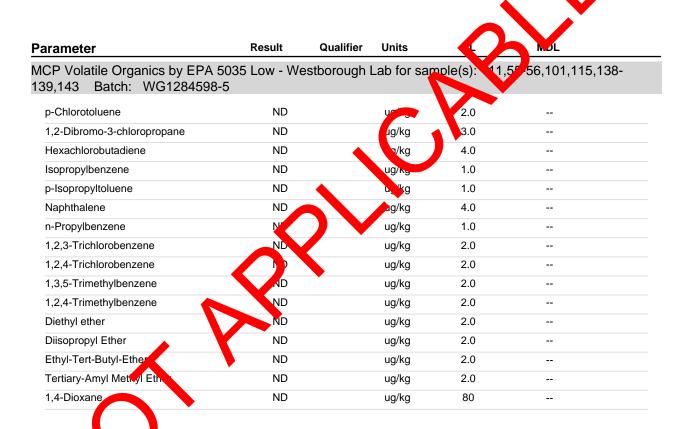
Lab Number: L1940717

Report Date: 09/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C Analytical Date: 09/15/19 17:36

Analyst: AD



	Acceptance					
Suit pate	%Recovery Qualif	ier Criteria				
1,2-Dichlon ethane-d4	102	70-130				
Toluene-d8	101	70-130				
4-Bromofluorobenzene	98	70-130				
Dibromofluoromethane	92	70-130				



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

Parameter	Result	Qualifier	Units		Iv.JL	
MCP Volatile Organics by EPA 503	35 High - W	estborough	Lab for s	sample(s). 44	3atch:	WG1284780-5
Methylene chloride	ND		ug/kg	30		
1,1-Dichloroethane	ND		₃/kg	50		
Chloroform	ND		ıg/kg	75		
Carbon tetrachloride	ND		u 'kg	50		
1,2-Dichloropropane	ND		ıg/kg	50		
Dibromochloromethane	ND		ug, kg	50		
1,1,2-Trichloroethane	ND		ug/kg	50		
Tetrachloroethene			ug/kg	25		
Chlorobenzene	ID.		ug/kg	25		
Trichlorofluoromethane			ug/kg	200		
1,2-Dichloroethane	ND		ug/kg	50		
1,1,1-Trichloroethane	ID		ug/kg	25		
Bromodichloromethane	ND		ug/kg	25		
trans-1,3-Dichloroprope	ND		ug/kg	50		
cis-1,3-Dichloroprop	ND		ug/kg	25		
1,3-Dichloropropene, Total	ND		ug/kg	25		
1,1-Dichlorg ropen	ND		ug/kg	25		
Bromoforr	ND		ug/kg	200		
1,1,2, Tetrahloroet ane	ND		ug/kg	25		
Benzene	ND		ug/kg	25		
uene	ND		ug/kg	50		
Ethyl. anzene	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		



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

Parameter	Result	Qualifier	Units	O	N.JL	
MCP Volatile Organics by EP	A 5035 High - We	estborough	Lab for s	ample(s): 44	3atch:	WG1284780-5
1,2-Dichlorobenzene	ND		ug/kg	J()		
1,3-Dichlorobenzene	ND		₃/kg	100		
1,4-Dichlorobenzene	ND		ıg/kg	100		
Methyl tert butyl ether	ND		u ⁽ kg	100		
p/m-Xylene	ND		ıg/kg	100		
o-Xylene	ND		ug, kg	50		
Xylenes, Total	ND		ug/kg	50		
cis-1,2-Dichloroethene			ug/kg	50		
1,2-Dichloroethene, Total	ND.		ug/kg	50		
Dibromomethane			ug/kg	100		
1,2,3-Trichloropropane	ND		ug/kg	100		
Styrene	ID		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 isob cyl ketc 2	ND		ug/kg	500		
2-Hexano	ND		ug/kg	500		
Brome hlore nethans	ND		ug/kg	100		
Tetrahydix furan	ND		ug/kg	200		
2,2-Dichiore, Spane	ND		ug/kg	100		
1,2-L romoethane	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: 09/16/19 08:09

arameter	Result	Qualifier	Units		N.JL	
ICP Volatile Organics by EPA	5035 High - We	estborough	Lab for	sample(s). 44	atch:	WG1284780-5
p-Chlorotoluene	ND		ug/kg	JO		
1,2-Dibromo-3-chloropropane	ND		ع/kg	150		
Hexachlorobutadiene	ND		ıg/kg	200		
Isopropylbenzene	ND		u 'kg	50		
p-Isopropyltoluene	ND		ıg/kg	50		
Naphthalene	ND		ug, kg	200		
n-Propylbenzene	ND		ug/kg	50		
1,2,3-Trichlorobenzene	ı		ug/kg	100		
1,2,4-Trichlorobenzene	D		ug/kg	100		
1,3,5-Trimethylbenzene			ug/kg	100		
1,2,4-Trimethylbenzene	ND		ug/kg	100		
Diethyl ether	ID		ug/kg	100		
Diisopropyl Ether	ND		ug/kg	100		
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100		
Tertiary-Amyl Methyl Liner	ND		ug/kg	100		
1,4-Dioxane	ND		ug/kg	4000		

	Acceptance					
Surrogate	%Recovery Qualifier	Criteria				
1,2-Dich roethane-d4	103	70-130				
Toluene-d8	100	70-130				
4-Bromofluorobenzene	96	70-130				
Dibromofluoromethane	93	70-130				



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

arameter	Result	Qualifier	Units		N.JL	
ICP Volatile Organics by EPA /G1284781-5	\ 5035 Low - We	stborough l	Lab for sa	ample(s): 18,	163,140 Batch:	
Methylene chloride	ND		Uc	5.0		
1,1-Dichloroethane	ND		ıg/kg	1.0		
Chloroform	ND	<u> </u>	g/kg	1.5		
Carbon tetrachloride	ND		ug/ks	1.0		
1,2-Dichloropropane	ND		u kg	1.0		
Dibromochloromethane	ND		ag/kg	1.0		
1,1,2-Trichloroethane	N	JV	ug/kg	1.0		
Tetrachloroethene	ND		ug/kg	0.50		
Chlorobenzene			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-Dichloropror ne	ND		ug/kg	1.0		
cis-1,3-Dichloropropene	ND		ug/kg	0.50		
1,3-Dichlorop	ND		ug/kg	0.50		
1,1-Dichlo propene	ND		ug/kg	0.50		
Bromoforn	ND		ug/kg	4.0		
1,1,2,2-1, trach	ND		ug/kg	0.50		
Street	ND		ug/kg	0.50		
Tolkine	ND		ug/kg	1.0		
Ethylberizene	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		



Project Name: TOMBARELLO SITE

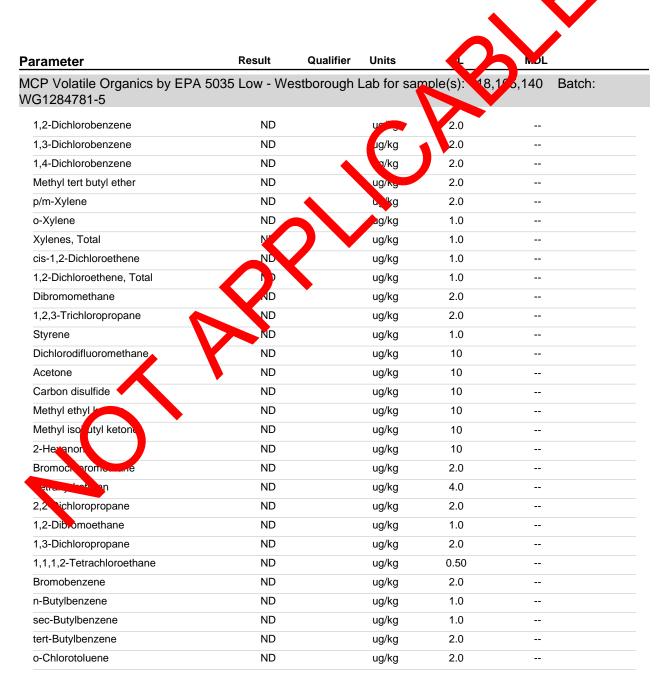
Project Number: 17001426

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





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

arameter	Result	Qualifier U	nits		N.JL	
CP Volatile Organics by EPA G1284781-5	5035 Low - We	estborough Lab	for sa	mple(s): 18,1	3,140	Batch:
p-Chlorotoluene	ND	у		2.0		
1,2-Dibromo-3-chloropropane	ND		g/kg	3.0		
Hexachlorobutadiene	ND		n/kg	4.0		
Isopropylbenzene	ND	u	g/kg	1.0		
p-Isopropyltoluene	ND		k g	1.0		
Naphthalene	ND		g/kg	4.0		
n-Propylbenzene	N'	V u	g/kg	1.0		
1,2,3-Trichlorobenzene	ND	u	g/kg	2.0		
1,2,4-Trichlorobenzene		u	g/kg	2.0		
1,3,5-Trimethylbenzene	ND	u	g/kg	2.0		
1,2,4-Trimethylbenzene	ND	u	g/kg	2.0		
Diethyl ether	ND	u	g/kg	2.0		
Diisopropyl Ether	ND	u	g/kg	2.0		
Ethyl-Tert-Butyl-Ether	ND	u	g/kg	2.0		
Tertiary-Amyl Methyl Eth	ND	u	g/kg	2.0		
1,4-Dioxane	ND	u	g/kg	80		

		Acceptance	
Suit	%Recovery Qualifier	Criteria	
1,2-Dichlon ethane-d4	103	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	96	70-130	
Dibromofluoromethane	93	70-130	



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 Un	its	N.JL
MCP Volatile Organics by EPA 9 WG1284929-5	5035 High - We	estborough Lab	for sample(s)	. 138 43 Batch:
Methylene chloride	ND	ye.	250)
1,1-Dichloroethane	ND	μg	g/kg50	
Chloroform	ND		ı/kg 75	
Carbon tetrachloride	ND	ug	J/kg 50	
1,2-Dichloropropane	ND	U,	k g 50	
Dibromochloromethane	ND	dg	J/kg 50	
1,1,2-Trichloroethane	N'	ug	J/kg 50	
Tetrachloroethene	ND	ug	ı/kg 25	
Chlorobenzene		ug	ı/kg 25	
Trichlorofluoromethane	, ND	ug	J/kg 200)
1,2-Dichloroethane	ND	ug	J/kg 50	
1,1,1-Trichloroethane	ND	ug	ı/kg 25	
Bromodichloromethane	ND	ug	ı/kg 25	
trans-1,3-Dichloroprov ne	ND	ug	ı/kg 50	
cis-1,3-Dichloropropene	ND	ug	ı/kg 25	
1,3-Dichloropy	ND	ug	ı/kg 25	
1,1-Dichlo propene	ND	ug	ı/kg 25	
Bromoform	ND	ug	ı/kg 200)
1,1,2,2-1, trachethane	ND	ug	ı/kg 25	
·allie	ND	ug	ı/kg 25	
Tolune	ND	ug	J/kg 50	
Ethylberizene	ND	ug	J/kg 50	
Chloromethane	ND	ug	ı/kg 200)
Bromomethane	ND	ug	ı/kg 100)
Vinyl chloride	ND	ug	ı/kg 50	
Chloroethane	ND	ug	ı/kg 100)
1,1-Dichloroethene	ND	ug	ı/kg 50	
trans-1,2-Dichloroethene	ND	ug	ı/kg 75	
Trichloroethene	ND	ug	ı/kg 25	



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		N.JL
MCP Volatile Organics by EP NG1284929-5	A 5035 High - We	estborough	Lab for s	ample(s): 138	43 Batch:
1,2-Dichlorobenzene	ND		Uc	100	
1,3-Dichlorobenzene	ND		ug/kg	100	
1,4-Dichlorobenzene	ND	•	n/kg	100	
Methyl tert butyl ether	ND		ug/ks	100	
p/m-Xylene	ND		u kg	100	
o-Xylene	ND		ag/kg	50	
Xylenes, Total	N'		ug/kg	50	
cis-1,2-Dichloroethene	ND		ug/kg	50	
1,2-Dichloroethene, Total			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	ND		ug/kg	500	
Methyl iso utyl keton	ND		ug/kg	500	
2-Hevanor	ND		ug/kg	500	
Bromock prometable	ND		ug/kg	100	
Fire hat an	ND		ug/kg	200	
2,2 ichloropropane	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

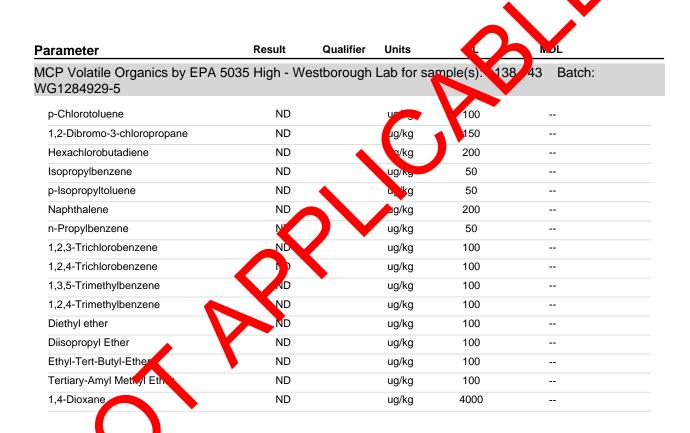
Lab Number: L1940717

Report Date: 09/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C Analytical Date: 09/16/19 20:21

Analyst: AD



Sungato	%Recovery Qualific	er Criteria
1,2-Dichlot, ethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130
Dibromofluoromethane	91	70-130



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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		N.JL	
MCP Volatile Organics by EPA 50)35 High - W	estborough/	Lab for s	sample(s): 27	Batch:	WG1285102-5
Methylene chloride	ND		ug/kg	30		
1,1-Dichloroethane	ND		_g /kg	50		
Chloroform	ND		ıg/kg	75		
Carbon tetrachloride	ND		u 'kg	50		
1,2-Dichloropropane	ND		ıg/kg	50		
Dibromochloromethane	ND		ug, kg	50		
1,1,2-Trichloroethane	ND		ug/kg	50		
Tetrachloroethene			ug/kg	25		
Chlorobenzene	VD.		ug/kg	25		
Trichlorofluoromethane			ug/kg	200		
1,2-Dichloroethane	ND		ug/kg	50		
1,1,1-Trichloroethane	ID		ug/kg	25		
Bromodichloromethane	ND		ug/kg	25		
trans-1,3-Dichloroprope	ND		ug/kg	50		
cis-1,3-Dichloroprop	ND		ug/kg	25		
1,3-Dichloropropene, Total	ND		ug/kg	25		
1,1-Dichlorg ropen	ND		ug/kg	25		
Bromoforr	ND		ug/kg	200		
1,1,2, Teth hloroet ane	ND		ug/kg	25		
Benzene	ND		ug/kg	25		
Luene	ND		ug/kg	50		
Ethyl. anzene	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		



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	0	N.JL	
MCP Volatile Organics by EP	A 5035 High - We	estborough	Lab for	sample(s): 27	3atch:	WG1285102-5
1,2-Dichlorobenzene	ND		ug/kg	JO		
1,3-Dichlorobenzene	ND		₃ /kg	100		
1,4-Dichlorobenzene	ND		ıg/kg	100		
Methyl tert butyl ether	ND		u 'kg	100		
p/m-Xylene	ND		ıg/kg	100		
o-Xylene	ND		ug, kg	50		
Xylenes, Total	ND		ug/kg	50		
cis-1,2-Dichloroethene	1) Y	ug/kg	50		
1,2-Dichloroethene, Total	ND.		ug/kg	50		
Dibromomethane			ug/kg	100		
1,2,3-Trichloropropane	ND		ug/kg	100		
Styrene	ID.		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 isob syl ketc 2	ND		ug/kg	500		
2-Hexano	ND		ug/kg	500		
Brom hlor nethane	ND		ug/kg	100		
Tetrahydi furan	ND		ug/kg	200		
2.3-Dichiore, Spane	ND		ug/kg	100		
1,2-L romoethane	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: 09/17/19 09:02

Analyst: NLK

Result	Qualifier	Units		N.OL	
5035 High - We	estborough La	ab for	sample(s): 27	Batch:	WG1285102-5
ND		ug/kg	J0		
ND		ع/kg	150		
ND		ıg/kg	200		
ND		u ⁽ kg	50		
ND		ıg/kg	50		
ND		ug, kg	200		
ND		ug/kg	50		
ı		ug/kg	100		
ID.		ug/kg	100		
		ug/kg	100		
ND		ug/kg	100		
ID		ug/kg	100		
ND		ug/kg	100		
ND		ug/kg	100		
ND		ug/kg	100		
ND		ug/kg	4000		
	ND N	ND N	ND ug/kg	ND ug/kg J00 ND ug/kg 150 ND ug/kg 200 ND ug/kg 50 ND ug/kg 50 ND ug/kg 50 ND ug/kg 50 ND ug/kg 100 ND ug/kg 100	ND ug/kg Journal of the sample (s). 27 Batch: ND ug/kg J00 ND ug/kg 200 ND ug/kg 50 ND ug/kg 50 ND ug/kg 50 ND ug/kg 100 ND ug/kg 100 -

		Acceptance	
Surrogate	%Recovery Qualifier	Criteria	
1,2-Dich roethane-d4	100	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	96	70-130	
Dibromofluoromethane	92	70-130	



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	RPD Qual Limits
MCP Volatile Organics by EPA 5035 Low -	Westborough Lab	Associated	sample(s): 15,17	,23 Batch:	WG12843 -3	G1284397-	-4
Methylene chloride	92		92		7 130	0	20
1,1-Dichloroethane	109		109		70- 30	0	20
Chloroform	116		114		1-130	2	20
Carbon tetrachloride	127		123		0-130	3	20
1,2-Dichloropropane	108		107		70-130	1	20
Dibromochloromethane	106		105		70-130	1	20
1,1,2-Trichloroethane	98				70-130	2	20
Tetrachloroethene	101		10	•	70-130	1	20
Chlorobenzene	97		5		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	01		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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	RPD Qual Limits
CP Volatile Organics by EPA 5035 Low	- Westborough Lab	Associated	sample(s): 15,17	,23 Batch:	WG12843 -3	G1284397-	4
Vinyl chloride	95		94		7 130	1	20
Chloroethane	83		82		70- 30	1	20
1,1-Dichloroethene	87		86		130	1	20
trans-1,2-Dichloroethene	95		94		0-130	1	20
Trichloroethene	105		104		70-130	1	20
1,2-Dichlorobenzene	96		96		70-130	0	20
1,3-Dichlorobenzene	97				70-130	0	20
1,4-Dichlorobenzene	97		9,	•	70-130	0	20
Methyl tert butyl ether	103		03		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	12		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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

ate:	09/20/19
	00/20/10

Parameter	LCS %Recovery	LCS Qual %Reco		%Recovery Limits	PP	RPD Qual Limits
MCP Volatile Organics by EPA 5035 Low -	Westborough Lab	Associated sample(s):	15,17,23 Bato	ch: WG12843 -3	G1284397-	-4
2,2-Dichloropropane	116	114	4	7 130	2	20
1,2-Dibromoethane	99	100)	70- 30	1	20
1,3-Dichloropropane	99	98		1-130	1	20
1,1,1,2-Tetrachloroethane	104	104	1	0-130	0	20
Bromobenzene	92	91		70-130	1	20
n-Butylbenzene	96	94		70-130	2	20
sec-Butylbenzene	91			70-130	1	20
tert-Butylbenzene	90	88		70-130	1	20
o-Chlorotoluene	92	0		70-130	2	20
p-Chlorotoluene	90	90		70-130	0	20
1,2-Dibromo-3-chloropropane	97	102	2	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	78	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	4	70-130	0	20
Ethyl-Tert-Butyl-Ether	103	102	2	70-130	1	20



Project Name: TOMBARELLO SITE

Project Number:

17001426

Lab Number:

L1940717

Report Date:

Paramete	er	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	Qual	RPD Limits	
MCP Vola	tile Organics by EPA 5035 Low	- Westborough Lab	Associated	sample(s): 15	,17,23 Batch:	WG12843 -3	G1284397-	-4		
Tertiary	-Amyl Methyl Ether	94		94		7 130	0		20	
1,4-Dio	kane	87		91		70- 30	4		20	

	LCS	LCSD	Acceptance
Surrogate	% Recovery Qual	%Recovery Qual	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

arameter	LCS %Recovery	LCS Qual %Reco		%Recovery Limits	P.P	RPD Qual Limits	
CP Volatile Organics by EPA 5035 Low	- Westborough Lab	Associated sample(s):	21,23-24 Batcl	h: WG12845 ∮-3	G1284519	-4	
Methylene chloride	96	94		7 130	2	20	
1,1-Dichloroethane	106	103	3	70-30	3	20	
Chloroform	104	104	1	130	0	20	
Carbon tetrachloride	109	107	7	0-130	2	20	
1,2-Dichloropropane	109	108	5	70-130	4	20	
Dibromochloromethane	100	98		70-130	2	20	
1,1,2-Trichloroethane	99			70-130	0	20	
Tetrachloroethene	99	98		70-130	4	20	
Chlorobenzene	94	2		70-130	2	20	
Trichlorofluoromethane	128	122	2	70-130	5	20	
1,2-Dichloroethane	113	11:	1	70-130	2	20	
1,1,1-Trichloroethane	107	102	2	70-130	5	20	
Bromodichloromethane	104	10	ı	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	00	96		70-130	4	20	
1,1,2,2-Tetrachloroethane	94	89		70-130	5	20	
Benzene		95		70-130	3	20	
Toluene	96	93		70-130	3	20	
Ethylbenzene	98	95		70-130	3	20	
Chloromethane	129	12 ⁻	1	70-130	6	20	
Bromomethane	89	87		70-130	2	20	



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP.	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low -	Westborough Lab	Associated	d sample(s): 21,23	-24 Batch	: WG12845 7-3	G1284519	-4	
Vinyl chloride	103		99		7 130	4		20
Chloroethane	95		91		70- 30	4		20
1,1-Dichloroethene	94		87		1-130	8		20
trans-1,2-Dichloroethene	95		93		0-130	2		20
Trichloroethene	102		98		70-130	4		20
1,2-Dichlorobenzene	96		91		70-130	5		20
1,3-Dichlorobenzene	96				70-130	5		20
1,4-Dichlorobenzene	96		92	•	70-130	4		20
Methyl tert butyl ether	98		5		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	11		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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	LCSE Qual %Recov		%Recovery Limits	PP	RPD Qual Limits
MCP Volatile Organics by EPA 5035 Low -	Westborough Lab	Associated sample(s):	21,23-24 Batch:	WG12843 79-3	G1284519-	4
2,2-Dichloropropane	103	100		7 130	3	20
1,2-Dibromoethane	100	97		70- 30	3	20
1,3-Dichloropropane	101	97		130	4	20
1,1,1,2-Tetrachloroethane	98	94		0-130	4	20
Bromobenzene	94	90		70-130	4	20
n-Butylbenzene	97	91		70-130	6	20
sec-Butylbenzene	93			70-130	4	20
tert-Butylbenzene	92	86		70-130	7	20
o-Chlorotoluene	94	9		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	78	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



Project Name: TOMBARELLO SITE

Project Number:

17001426

Lab Number:

L1940717

Report Date:

<u>Pa</u>	rameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	DP	Qual	RPD Limits	
MC	CP Volatile Organics by EPA 5035 Low -	- Westborough Lab	Associated	sample(s): 21,23	3-24 Batch:	WG12845 9-3	G1284519)-4		
	Tertiary-Amyl Methyl Ether	91		89		7 130	2		20	
	1,4-Dioxane	88		88		70-30	0		20	

	LCS	LCSD	Acceptance
Surrogate	% Recovery Qua	al %Recovery Qual	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	LCSD Qual %Recovery	%Recovery Qual Limits	PP.	RPD Qual Limits
MCP Volatile Organics by EPA 5035 High -	Westborough Lab	Associated sample(s): 15	Batch: WG1284521-3 VG1	2 4521-4	
Methylene chloride	96	94	7 130	2	20
1,1-Dichloroethane	106	103	70-30	3	20
Chloroform	104	104	1-130	0	20
Carbon tetrachloride	109	107	0-130	2	20
1,2-Dichloropropane	109	105	70-130	4	20
Dibromochloromethane	100	98	70-130	2	20
1,1,2-Trichloroethane	99		70-130	0	20
Tetrachloroethene	99	98	70-130	4	20
Chlorobenzene	94	2	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	00	96	70-130	4	20
1,1,2,2-Tetrachloroethane	94	89	70-130	5	20
Benzene		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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	RPD Qual Limits
MCP Volatile Organics by EPA 5035 High	- Westborough La	b Associate	d sample(s): 15	Batch: W	/G1284521-3 V/G1	2 4521-4	
Vinyl chloride	103		99		7 130	4	20
Chloroethane	95		91		70- 30	4	20
1,1-Dichloroethene	94		87		130	8	20
trans-1,2-Dichloroethene	95		93		0-130	2	20
Trichloroethene	102		98		70-130	4	20
1,2-Dichlorobenzene	96		91		70-130	5	20
1,3-Dichlorobenzene	96				70-130	5	20
1,4-Dichlorobenzene	96		92		70-130	4	20
Methyl tert butyl ether	98		5		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	11		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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	Qual	RPD Limits	
ICP Volatile Organics by EPA 5035 High -	Westborough Lab	Associate	d sample(s): 15	Batch: V	VG1284521-3 V√G	12 4521-4			
2,2-Dichloropropane	103		100		7 130	3		20	
1,2-Dibromoethane	100		97		70-30	3		20	
1,3-Dichloropropane	101		97		130	4		20	
1,1,1,2-Tetrachloroethane	98		94		0-130	4		20	
Bromobenzene	94		90		70-130	4		20	
n-Butylbenzene	97		91		70-130	6		20	
sec-Butylbenzene	93				70-130	4		20	
tert-Butylbenzene	92		86		70-130	7		20	
o-Chlorotoluene	94		9		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	78		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	



Project Name: TOMBARELLO SITE

17001426

Project Number:

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	Qual	RPD Limits	
MCP Volatile Organics by EPA 5035 H	ligh - Westborough Lab	Associated sa	mple(s): 15	Batch: W	G1284521-3 VG12	4521-4			
Tertiary-Amyl Methyl Ether	91		89		7 130	2		20	
1,4-Dioxane	88		88		70- 30	0		20	

	LCS	LCSD	Acceptance
Surrogate	Recovery Qual	%Recovery Qual	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

09/20/1	9
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Parameter	LCS %Recovery	LCS Qual %Reco		%Recovery Limits	P.P	RPD Qual Limits
MCP Volatile Organics by EPA 5035 Low -	Westborough Lab	Associated sample(s):	27,44-45 Batch	: WG12843 5-3	G1284565	i-4
Methylene chloride	80	78		7 130	3	20
1,1-Dichloroethane	94	91		70- 30	3	20
Chloroform	92	89		130	3	20
Carbon tetrachloride	94	91		0-130	3	20
1,2-Dichloropropane	89	88		70-130	1	20
Dibromochloromethane	91	90		70-130	1	20
1,1,2-Trichloroethane	86	2		70-130	4	20
Tetrachloroethene	94	90		70-130	4	20
Chlorobenzene	92	0		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	30	78		70-130	3	20
1,1,2,2-Tetrachloroethane	84	85		70-130	1	20
Benzene		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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

arameter	LCS %Recovery Q	LCSD ual %Recovery	Qual	%Recovery Limits	PP	RPD Qual Limits
CP Volatile Organics by EPA 5035 Low	- Westborough Lab Ass	sociated sample(s): 27,	44-45 Batch:	WG1284575-3	G1284565-	4
Vinyl chloride	95	90		7 130	5	20
Chloroethane	87	83		70- 30	5	20
1,1-Dichloroethene	91	87		7-130	4	20
trans-1,2-Dichloroethene	92	87		0-130	6	20
Trichloroethene	91	88		70-130	3	20
1,2-Dichlorobenzene	89	88		70-130	1	20
1,3-Dichlorobenzene	93	9		70-130	3	20
1,4-Dichlorobenzene	92	90		70-130	2	20
Methyl tert butyl ether	79	8	•	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	01	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

arameter	LCS %Recovery Qua	LCSD al %Recovery	Qual	%Recovery Limits	PP	RPD Qual Limits
CP Volatile Organics by EPA 5035 Lo	w - Westborough Lab Asso	ciated sample(s): 27,4	4-45 Batch:	WG12845 5-3	G1284565-	-4
2,2-Dichloropropane	91	88		7 130	3	20
1,2-Dibromoethane	87	86		70- 30	1	20
1,3-Dichloropropane	85	84		1-130	1	20
1,1,1,2-Tetrachloroethane	95	91		0-130	4	20
Bromobenzene	86	85		70-130	1	20
n-Butylbenzene	98	96		70-130	2	20
sec-Butylbenzene	95			70-130	3	20
tert-Butylbenzene	92	90	•	70-130	2	20
o-Chlorotoluene	94	0		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	37	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



Project Name: TOMBARELLO SITE

Project Number:

17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	Qual	RPD Limits	
MCP Volatile Organics by EPA 5035 Low	- Westborough Lab	Associated s	sample(s): 27,44	-45 Batch:	WG12845 5-3) G1284565	i-4		
Tertiary-Amyl Methyl Ether	77		76		7 130	1		20	
1,4-Dioxane	96		98		70- 30	2		20	

	LCS	LCSD	Acceptance
Surrogate	% Recovery Qual	%Recovery Qual	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	LCSD Qual %Recove		%Recovery Limits	PP	RPD Qual Limits
MCP Volatile Organics by EPA 5035 High -	Westborough Lab	Associated sample(s):	12,50,113 Batch	h: WG128- 96-	3 WG128459	96-4
Methylene chloride	89	91		7 130	2	20
1,1-Dichloroethane	104	105		70- 30	1	20
Chloroform	101	103		130	2	20
Carbon tetrachloride	102	102		0-130	0	20
1,2-Dichloropropane	100	102		70-130	2	20
Dibromochloromethane	98	102		70-130	4	20
1,1,2-Trichloroethane	93			70-130	3	20
Tetrachloroethene	98	95		70-130	1	20
Chlorobenzene	99	01		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	37	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	RPD Qual Limits
MCP Volatile Organics by EPA 5035 High -	Westborough Lab	Associated sa	mple(s): 12,50	0,113 Batch	n: WG128- 96-	3 WG128459	6-4
Vinyl chloride	104		107		7 130	3	20
Chloroethane	96		95		70-30	1	20
1,1-Dichloroethene	98		98		130	0	20
trans-1,2-Dichloroethene	98		99		0-130	1	20
Trichloroethene	100		102		70-130	2	20
1,2-Dichlorobenzene	97		100		70-130	3	20
1,3-Dichlorobenzene	99		1/2		70-130	3	20
1,4-Dichlorobenzene	100		10.	<u> </u>	70-130	2	20
Methyl tert butyl ether	90	4	1		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	21		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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery		CSD covery Q	ual	%Recovery Limits	DP.	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High	•				: WG128- ⊌6-			
WCF Volatile Organics by EFA 3033 High	- westborough Lat	Associated sample	:(5). 12,50,113	b balti	i. WG126- 90-	3 WG126459	0-4	
2,2-Dichloropropane	100		101		7 130	1		20
1,2-Dibromoethane	95		99		70- 30	4		20
1,3-Dichloropropane	94		98		7-130	4		20
1,1,1,2-Tetrachloroethane	101		102		0-130	1		20
Bromobenzene	92		95		70-130	3		20
n-Butylbenzene	108		111		70-130	3		20
sec-Butylbenzene	102		1		70-130	3		20
tert-Butylbenzene	100		10.		70-130	2		20
o-Chlorotoluene	102		05		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	76		97		70-130	1		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene			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



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426 Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	Qual	RPD Limits	
MCP Volatile Organics by EPA	A 5035 High - Westborough Lab	Associate	d sample(s): 12,	50,113 Bate	ch: WG128 96-3	3 WG128459	96-4		
Tertiary-Amyl Methyl Ether	86		88		7 130	2		20	
1,4-Dioxane	88		95		70- 30	8		20	

	LCS	LCSD	Acceptance
Surrogate	% Recovery Qual	%Recovery Qual	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

arameter	LCS %Recovery Qu	LCSD ual %Recovery	%Recovery Qual Limits	₽P Qu	RPD ual Limits
ICP Volatile Organics by EPA 5035 Low	- Westborough Lab Ass	ociated sample(s): 11,5	5-56,101,115,138-139,14 Ba	at h: WG1284598	3-3 WG1284598-4
Methylene chloride	89	91	7 130	2	20
1,1-Dichloroethane	104	105	70-30	1	20
Chloroform	101	103	7-130	2	20
Carbon tetrachloride	102	102	0-130	0	20
1,2-Dichloropropane	100	102	70-130	2	20
Dibromochloromethane	98	102	70-130	4	20
1,1,2-Trichloroethane	93		70-130	3	20
Tetrachloroethene	98	98	70-130	1	20
Chlorobenzene	99	01	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	97	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

CP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,14 Bath: WG1284598-3 WG1284598-4 Vinyl chloride 104 107 7,139 3 20 Chloroethane 96 95 70,140 1 20 1,1-Dichloroethene 98 99 0-130 1 20 trans-1,2-Dichloroethene 100 102 70-130 2 20 1,2-Dichlorobenzene 97 100 70-130 3 20 1,3-Dichlorobenzene 99 14 70-130 2 20 1,3-Dichlorobenzene 100 100 70-130 2 20 1,3-Dichlorobenzene 100 103 70-130 2 20 Methyl tert butyl ether 90 1 70-130 2 2 20 o-Xylene 98 91 97 70-130 2 2 20 Oxylene 98 97 70-130 3 20 20	Parameter	LCS %Recovery Q	LCSD ual %Recovery	%Recovery Qual Limits	₽₽ QL	RPD ual Limits
Chloroethane 96 95 70 % 0 1 20 1,1-Dichloroethene 98 98 71 130 0 20 trans-1,2-Dichloroethene 98 99 0-130 1 20 Trichloroethene 100 102 70-130 2 20 1,2-Dichlorobenzene 97 100 70-130 3 20 1,3-Dichlorobenzene 99 1 70-130 3 20 1,4-Dichlorobenzene 100 100 70-130 3 20 Metryl tert buyl ether 90 1 70-130 2 20 Metryl tert buyl ether 90 1 70-130 2 20 O-Xylene 98 101 70-130 2 20 O-Xylene 98 101 70-130 3 20 Cis-1,2-Dichloroethene 97 97 70-130 3 20 Dibromomethane 94 97 70-130 3 20	MCP Volatile Organics by EPA 5035 Low -	Westborough Lab Ass	sociated sample(s): 11,5	5-56,101,115,138-139,14 Ba	n: WG1284598	3-3 WG1284598-4
1,1-Dichloroethene 98 98 7.130 0 20 trans-1,2-Dichloroethene 98 99 0-130 1 20 Trichloroethene 100 102 70-130 2 20 1,2-Dichlorobenzene 97 100 70-130 3 20 1,3-Dichlorobenzene 99 12 70-130 3 20 1,4-Dichlorobenzene 100 10x 70-130 2 20 Methyl tert butyl ether 90 11 70-130 1 20 Methyl tert butyl ether 90 101 103 70-130 1 20 0x-Xylene 98 101 70-130 2 20 0x-Xylene 98 101 70-130 3 20 cis-1,2-Dichloroethene 97 97 70-130 0 20 Dibromoethane 94 97 70-130 3 20 Styrene 100 102 70-130 2 20 Dichlorodifluoromethane 110 109 70-130 1 <td>Vinyl chloride</td> <td>104</td> <td>107</td> <td>7 130</td> <td>3</td> <td>20</td>	Vinyl chloride	104	107	7 130	3	20
trans-1,2-Dichloroethene 98 99 0-130 1 20 Trichloroethene 100 102 70-130 2 20 1,2-Dichlorobenzene 97 100 70-130 3 20 1,3-Dichlorobenzene 99 14 70-130 3 20 1,4-Dichlorobenzene 100 10,6 70-130 2 20 Methyl tert butyl ether 90 1 70-130 1 20 p/m-Xylene 101 103 70-130 2 20 o-Xylene 98 301 70-130 2 20 cis-1,2-Dichloroethene 97 97 70-130 3 20 cis-1,2-Dichloroethene 97 97 70-130 3 20 Dichromoethane 94 97 70-130 3 20 Styrene 100 102 70-130 2 20 Dichlorodifluoromethane 110 109 70-130 3 20 <td>Chloroethane</td> <td>96</td> <td>95</td> <td>70-30</td> <td>1</td> <td>20</td>	Chloroethane	96	95	70-30	1	20
Trichloroethene 100 102 70-130 2 20 1,2-Dichlorobenzene 97 100 70-130 3 20 1,3-Dichlorobenzene 99 12 70-130 3 20 1,4-Dichlorobenzene 100 10 70-130 2 20 Methyl tert butyl ether 90 1 70-130 1 20 p/m-Xylene 101 103 70-130 2 20 o-Xylene 98 301 70-130 2 20 o-Xylene 98 301 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	1,1-Dichloroethene	98	98	7-130	0	20
1,2-Dichlorobenzene 97 100 70-130 3 20 1,3-Dichlorobenzene 99 12 70-130 3 20 1,4-Dichlorobenzene 100 102 70-130 2 20 Methyl tert butyl ether 90 11 70-130 1 20 p/m-Xylene 101 103 70-130 2 20 o-Xylene 98 301 70-130 3 20 cis-1,2-Dichloroethene 97 97 70-130 0 20 Dibromoethane 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 21 118 70-130 1 20 Carbon disulfide 96 95 70-130 1 20 Methyl ethyl ketone 114 70-130 3 20 Me	trans-1,2-Dichloroethene	98	99	0-130	1	20
1,3-Dichlorobenzene 99 1/2 70-130 3 20 1,4-Dichlorobenzene 100 10 70-130 2 20 Methyl tert butyl ether 90 1 70-130 1 20 p/m-Xylene 101 103 70-130 2 20 o-Xylene 98 401 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 21 118 70-130 3 20 Carbon disulfide 96 95 70-130 1 20 Methyl ethyl ketone 114 70-130 3 20 Methyl isobutyl ketone 96 99 70-130 3 20	Trichloroethene	100	102	70-130	2	20
1,4-Dichlorobenzene 100 10 70-130 2 20 Methyl tert butyl ether 90 1 70-130 1 20 p/m-Xylene 101 103 70-130 2 20 o-Xylene 98 401 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 21 118 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 Bromochl	1,2-Dichlorobenzene	97	100	70-130	3	20
Methyl tert butyl ether 90 11 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 21 118 70-130 3 20 Carbon disulfide 96 95 70-130 1 20 Methyl ethyl ketone 96 99 70-130 3 20 Methyl isobutyl ketone 96 99 70-130 3 20 2-Hexanone 107 110 70-130 1 20	1,3-Dichlorobenzene	99	1/2	70-130	3	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 21 118 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 1 20 Bromochloromethane 97 96 70-130 1 20	1,4-Dichlorobenzene	100	10.	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 21 118 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	Methyl tert butyl ether	90	1	70-130	1	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 21 118 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	p/m-Xylene	101	103	70-130	2	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 21 118 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	o-Xylene	98	101	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 21 118 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	cis-1,2-Dichloroethene	97	97	70-130	0	20
Styrene 100 102 70-130 2 20 Dichlorodiffluoromethane 110 109 70-130 1 20 Acetone 21 118 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	Dibromomethane	94	97	70-130	3	20
Dichlorodifluoromethane 10 109 70-130 1 20 Acetone 21 118 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	1,2,3-Trichloropropane	93	98	70-130	5	20
Acetone 21 118 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	Styrene	100	102	70-130	2	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	Dichlorodifluoromethane	(10	109	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	Acetone	21	118	70-130	3	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	Carbon disulfide	96	95	70-130	1	20
2-Hexanone 107 110 70-130 3 20 Bromochloromethane 97 96 70-130 1 20	Methyl ethyl ketone		114	70-130	9	20
Bromochloromethane 97 96 70-130 1 20	Methyl isobutyl ketone	96	99	70-130	3	20
	2-Hexanone	107	110	70-130	3	20
Tetrahydrofuran 110 116 70-130 5 20	Bromochloromethane	97	96	70-130	1	20
	Tetrahydrofuran	110	116	70-130	5	20



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP.	RPD Qual Limits
MCP Volatile Organics by EPA 5035 Low	- Westborough Lab	Associated	sample(s): 11,55	5-56,101,1	15,138-139,14 Ba	h: WG128	4598-3 WG1284598-4
2,2-Dichloropropane	100		101		7 130	1	20
1,2-Dibromoethane	95		99		70- 30	4	20
1,3-Dichloropropane	94		98		1-130	4	20
1,1,1,2-Tetrachloroethane	101		102		0-130	1	20
Bromobenzene	92		95		70-130	3	20
n-Butylbenzene	108		111		70-130	3	20
sec-Butylbenzene	102		1/3		70-130	3	20
tert-Butylbenzene	100		10.	•	70-130	2	20
o-Chlorotoluene	102		05		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	76		97		70-130	1	20
1,2,4-Trichlorobenzene	98		100		70-130	2	20
1,3,5-Trimethylbenzene			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



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number:

17001426

Report Date:

09/20/19

	LCS		LCSD		%Recovery_			•	RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits		₽P /	Qual	Limits	
MCP Volatile Organics by EPA 5035 Low	- Westborough Lab	Associate	ed sample(s): 11,5	5-56,101,11	15,138-139,14	Bat	h: WG	1284598-3	WG1284598-4	

Tertiary-Amyl Methyl Ether 86 88 2 20 95 20 1,4-Dioxane 8

	% Recovery Qual	%Recovery Qual	Criteria
,2-Dichloroethane-d4	102	103	70-130
oluene-d8	100	99	70-130
-Bromofluorobenzene	97	96	70-130
Dibromofluoromethane	97	98	70-130



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	LCSD Qual %Recovery	%Recovery Qual Limits	PP	RPD Qual Limits
MCP Volatile Organics by EPA 5035	High - Westborough Lab	Associated sample(s): 44	Batch: WG1284780-3 VG	12 4780-4	
Methylene chloride	90	93	7 130	3	20
1,1-Dichloroethane	107	108	70-30	1	20
Chloroform	105	107	7-130	2	20
Carbon tetrachloride	107	109	0-130	2	20
1,2-Dichloropropane	104	106	70-130	2	20
Dibromochloromethane	104	106	70-130	2	20
1,1,2-Trichloroethane	98	1 3	70-130	2	20
Tetrachloroethene	102	10.	70-130	1	20
Chlorobenzene	103	04	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	21	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	Qual	RPD Limits	
MCP Volatile Organics by EPA 5035 High	- Westborough Lab	Associate	d sample(s): 44	Batch:	WG1284780-3 VG′	12 4780-4			
Vinyl chloride	96		100		7 130	4		20	
Chloroethane	94		94		70- 30	0		20	
1,1-Dichloroethene	100		101		7 -130	1		20	
trans-1,2-Dichloroethene	101		102		0-130	1		20	
Trichloroethene	104		105		70-130	1		20	
1,2-Dichlorobenzene	100		102		70-130	2		20	
1,3-Dichlorobenzene	102		10		70-130	3		20	
1,4-Dichlorobenzene	102		10	<u> </u>	70-130	2		20	
Methyl tert butyl ether	92		4		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	



Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number:

L1940717

ort Date: 09/20/1	9
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Parameter	LCS %Recovery G	LCSD Qual %Recovery	%Recovery Qual Limits	PP	RPD Qual Limits
MCP Volatile Organics by EPA 5035 H	High - Westborough Lab As	ssociated sample(s): 44	Batch: WG1284780-3 VG1	2 4780-4	
2,2-Dichloropropane	103	105	7 130	2	20
1,2-Dibromoethane	100	102	70-30	2	20
1,3-Dichloropropane	99	101	7-130	2	20
1,1,1,2-Tetrachloroethane	106	108	0-130	2	20
Bromobenzene	95	98	70-130	3	20
n-Butylbenzene	109	112	70-130	3	20
sec-Butylbenzene	105	18	70-130	3	20
tert-Butylbenzene	102	10	70-130	3	20
o-Chlorotoluene	104	17	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	77	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



Project Name: TOMBARELLO SITE

Lab Number:

L1940717

09/20/19

Report Date:

Project Number: 17001426

	LCS		LCSD		%Recovery	Y		RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	₹P /	Qual	Limits	
MCP Volatile Organics by EPA 5035 Hig	h - Westborough Lab	Associate	d sample(s): 44	Batch: W	/G1284780-3 √G12	4780-4			
Tertiary-Amyl Methyl Ether	90		94		7 130	4		20	
1,4-Dioxane	88		90		70-30	2		20	

	LCS	LCSD	Acceptance
Surrogate	% Recovery Qua	al %Recovery Qual	Criteria
2-Dichloroethane-d4	103	104	70-130
oluene-d8	100	99	70-130
Bromofluorobenzene	97	96	70-130
Dibromofluoromethane	97	98	70-130



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery Qual	LCSD %Recovery Qu	%Recovery al Limits	P.P	RPD Qual Limits
MCP Volatile Organics by EPA 5035 Low	v - Westborough Lab Associa	ted sample(s): 18,105,140	Batch: WG128 81-	3 WG12847	81-4
Methylene chloride	90	93	7 130	3	20
1,1-Dichloroethane	107	108	70- 30	1	20
Chloroform	105	107	7-130	2	20
Carbon tetrachloride	107	109	0-130	2	20
1,2-Dichloropropane	104	106	70-130	2	20
Dibromochloromethane	104	106	70-130	2	20
1,1,2-Trichloroethane	98		70-130	2	20
Tetrachloroethene	102	10.	70-130	1	20
Chlorobenzene	103	04	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	21	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery		LCSD Recovery	Qual	%Recovery Limits	DP.	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low -	Westborough Lab	Associated samp	le(s): 18,10	5,140 B	Satch: WG12c 81	1-3 WG128478	81-4	
Vinyl chloride	96		100		7 130	4		20
Chloroethane	94		94		70-30	0		20
1,1-Dichloroethene	100		101		7-130	1		20
trans-1,2-Dichloroethene	101		102		0-130	1		20
Trichloroethene	104		105		70-130	1		20
1,2-Dichlorobenzene	100		102		70-130	2		20
1,3-Dichlorobenzene	102		1 3		70-130	3		20
1,4-Dichlorobenzene	102		10	•	70-130	2		20
Methyl tert butyl ether	92		4		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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG128, 81-3 WG128,4781-4 2,2-Dichloropropane 103 105 7,139 2 20 1,2-Dibromoethane 100 102 70-10 2 20 1,3-Dichloropropane 99 101 7,130 2 20 1,1,1,2-Tetrachloroethane 106 108 70-130 3 20 Brombenzene 95 98 70-130 3 20 n-Butylbenzene 109 112 70-130 3 20 sec-Butylbenzene 105 3.6 70-130 3 20 tert-Butylbenzene 102 10 70-130 3 20 ec-Chlorotoluane 104 107 70-130 3 20 p-Chlorotoluane 106 109 70-130 3 20 p-Chlorotoluane 106 109 70-130 3 20 Hexachtorobutadiene 88 93 70-1	Parameter	LCS %Recovery	LCS Qual %Reco		%Recovery Limits	₽ <i>P</i>	RPL Qual Limi	
1,2-Dibromoethane 100 102 70-10 2 20 1,3-Dichloropropane 99 101 71-130 2 20 1,1,1,2-Tetrachloroethane 106 108 .0-130 2 20 Bromobenzene 95 98 70-130 3 20 n-Butylbenzene 109 112 70-130 3 20 sec-Butylbenzene 105 4.4 70-130 3 20 tenr-Butylbenzene 102 10 70-130 3 20 tenr-Butylbenzene 102 10 70-130 3 20 o-Chlorotoluene 104 97 70-130 3 20 p-Chlorotoluene 106 109 70-130 3 20 1,2-Dibromo-3-chloropropane 88 93 70-130 3 20 Hexachlorobutadiene 88 90 70-130 2 20 Isopropylbenzene 104 107 70-130 3 20 P-Isopropylbenzene 105 108 70-130 3	MCP Volatile Organics by EPA 5035 Low -	Westborough Lab	Associated sample(s):	18,105,140 I	Batch: WG128 8	1-3 WG12847	81-4	
1,3-Dichloropropane 99 101 1-130 2 20 1,1,1,2-Tetrachloroethane 106 108 -0-130 2 20 Bromobenzene 95 98 70-130 3 20 n-Butylbenzene 109 112 70-130 3 20 sec-Butylbenzene 105 12 70-130 3 20 tert-Butylbenzene 102 10 70-130 3 20 o-Chlorotoluene 104 97 70-130 3 20 o-Chlorotoluene 106 109 70-130 3 20 p-Chlorotoluene 106 109 70-130 3 20 1,2-Dibromo-3-chloropropane 88 93 70-130 3 20 Hexachlorobutadiene 88 93 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 <td>2,2-Dichloropropane</td> <td>103</td> <td>108</td> <td>5</td> <td>7 130</td> <td>2</td> <td>20</td> <td></td>	2,2-Dichloropropane	103	108	5	7 130	2	20	
1,1,1,2-Tetrachloroethane	1,2-Dibromoethane	100	102	2	70-30	2	20	
Bromobenzene 95 98 70-130 3 20 n-Butylbenzene 109 112 70-130 3 20 sec-Butylbenzene 105 13 70-130 3 20 tert-Butylbenzene 102 10 70-130 3 20 o-Chlorotoluene 104 07 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 107 109 70-130 1 20	1,3-Dichloropropane	99	10	1	7-130	2	20	
n-Butylbenzene 109 112 70-130 3 20 sec-Butylbenzene 105 16 70-130 3 20 tert-Butylbenzene 102 10 70-130 3 20 o-Chlorotoluene 104 97 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-Isopropyllouene 105 108 70-130 3 20 Naphthalene 96 99 70-130 3 20 n-Propylbenzene 107 109 70-130 3 20 1,2,3-Trichlorobenzene 100 100 70-130 1 20 1,2,4-Trimethylbenzene 100 100 70-130 3 <td< td=""><td>1,1,1,2-Tetrachloroethane</td><td>106</td><td>108</td><td>3</td><td>0-130</td><td>2</td><td>20</td><td></td></td<>	1,1,1,2-Tetrachloroethane	106	108	3	0-130	2	20	
sec-Butylbenzene 105 18 70-130 3 20 tert-Butylbenzene 102 10 70-130 3 20 o-Chlorotoluene 104 97 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 107 98 70-130 1 20 1,2,4-Trimethylbenzene 100 100 70-130 3 20 1,3,5-Trimethylbenzene 105 108 70-130 3	Bromobenzene	95	98		70-130	3	20	
tert-Butylbenzene 102 104 70-130 3 20 o-Chlorotoluene 104 97 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 107 98 70-130 1 20 1,2,4-Trimethylbenzene 100 100 70-130 3 20 1,2,4-Trimethylbenzene 105 108 70-130 3 20 Diethyl ether 92 93 70-130 1	n-Butylbenzene	109	112	2	70-130	3	20	
o-Chlorotoluene 104 D7 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 17 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	sec-Butylbenzene	105	1		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 107 98 70-130 1 20 1,2,4-Trimethylbenzene 100 100 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	tert-Butylbenzene	102	10.		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 10 100 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	o-Chlorotoluene	104)7	7	70-130	3	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 37 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	p-Chlorotoluene	106	109	9	70-130	3	20	
Isopropylbenzene	1,2-Dibromo-3-chloropropane	88	93		70-130	6	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 17 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	Hexachlorobutadiene	88	90		70-130	2	20	
Naphthalene 96 99 70-130 3 20 n-Propylbenzene 107 109 70-130 2 20 1,2,3-Trichlorobenzene 98 70-130 1 20 1,2,4-Trichlorobenzene 100 100 70-130 0 20 1,3,5-Trimethylbenzene 105 108 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	Isopropylbenzene	104	107	7	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	p-Isopropyltoluene	105	108	3	70-130	3	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	Naphthalene	96	99		70-130	3	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	n-Propylbenzene	107	109	Э	70-130	2	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	1,2,3-Trichlorobenzene	97	98		70-130	1	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	1,2,4-Trichlorobenzene	100	100)	70-130	0	20	
Diethyl ether 92 93 70-130 1 20 Diisopropyl Ether 122 124 70-130 2 20	1,3,5-Trimethylbenzene		107	7	70-130	3	20	
Diisopropyl Ether 122 124 70-130 2 20	1,2,4-Trimethylbenzene	105	108	3	70-130	3	20	
	Diethyl ether	92	93		70-130	1	20	
Ethyl-Tert-Butyl-Ether 100 103 70-130 3 20	Diisopropyl Ether	122	124	1	70-130	2	20	
	Ethyl-Tert-Butyl-Ether	100	103	3	70-130	3	20	



Project Name: TOMBARELLO SITE

17001426

Project Number:

Lab Number:

L1940717

Report Date:

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	₽P /	Qual	Limits	
MCP Volatile Organics by EPA 5035 Low	- Westborough Lab	Associated sa	ample(s): 18,	105,140 Bat	tch: WG126 81-	3 WG12847	81-4		
Tertiary-Amyl Methyl Ether	90		94		7 130	4		20	
1,4-Dioxane	88		90		70- 30	2		20	

	LCS	LCSD	Acceptance
Surrogate	% Recovery Qu	ual %Recovery Qual	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	P.P	RPD Qual Limits
MCP Volatile Organics by EPA 5035 High -	Westborough Lab	Associated	sample(s): 138,1	43 Batch:	WG12845 7-3	y G1284929-	4
Methylene chloride	92		92		7 130	0	20
1,1-Dichloroethane	110		109		70- 30	1	20
Chloroform	107		106		130	1	20
Carbon tetrachloride	108		109		0-130	1	20
1,2-Dichloropropane	101		104		70-130	3	20
Dibromochloromethane	100		100		70-130	0	20
1,1,2-Trichloroethane	96				70-130	1	20
Tetrachloroethene	103		10.	_	70-130	0	20
Chlorobenzene	103		03		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	35		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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

:	09/20/1	9

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	RPD Qual Limits
MCP Volatile Organics by EPA 5035 High -	Westborough Lab	Associated s	sample(s): 138,	143 Batch:	WG12849 7-3	y G1284929-	4
Vinyl chloride	116		113		7 130	3	20
Chloroethane	103		102		70- 30	1	20
1,1-Dichloroethene	106		106		1-130	0	20
trans-1,2-Dichloroethene	106		104		0-130	2	20
Trichloroethene	106		106		70-130	0	20
1,2-Dichlorobenzene	100		100		70-130	0	20
1,3-Dichlorobenzene	103		1 8		70-130	0	20
1,4-Dichlorobenzene	102		10.	•	70-130	0	20
Methyl tert butyl ether	88		9		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	33	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	DP.	RPD Qual Limits
MCP Volatile Organics by EPA 5035 High	- Westborough Lab	Associated s	ample(s): 138,1	43 Batch:	WG12845 7-3	V G1284929-	4
2,2-Dichloropropane	106		105		7 130	1	20
1,2-Dibromoethane	95		96		70- 30	1	20
1,3-Dichloropropane	95		96		130	1	20
1,1,1,2-Tetrachloroethane	103		103		0-130	0	20
Bromobenzene	96		97		70-130	1	20
n-Butylbenzene	115		116		70-130	1	20
sec-Butylbenzene	111		1		70-130	0	20
tert-Butylbenzene	105		10	•	70-130	1	20
o-Chlorotoluene	107)8		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



Project Name: TOMBARELLO SITE

Project Number:

17001426

Lab Number:

L1940717

Report Date:

Pa	ameter	LCS %Recovery	Qual	LCSD %Recove	ry Q	ual	%Recovery Limits	DP/	Qual	RPD Limits	
MC	P Volatile Organics by EPA 5035 High	· Westborough Lab	Associated :	sample(s):	138,143	Batch:	WG12845 7-3	V G1284929-	-4		
	Tertiary-Amyl Methyl Ether	85		86			7 130	1		20	
	1,4-Dioxane	94		97			70-30	3		20	

	LCS	LCSD	Acceptance
Surrogate	% Recovery Qua	l %Recovery Qual	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	LCSD Qual %Recovery	%Recovery Qual Limits	DP.	RPD Qual Limits
MCP Volatile Organics by EPA 5035 Hi	gh - Westborough Lab As	ssociated sample(s): 27	Batch: WG1285102-3	G12 5102-4	
Methylene chloride	93	94	7 130	1	20
1,1-Dichloroethane	99	99	70-130	0	20
Chloroform	97	98	7-130	1	20
Carbon tetrachloride	98	99	0-130	1	20
1,2-Dichloropropane	95	96	70-130	1	20
Dibromochloromethane	94	96	70-130	2	20
1,1,2-Trichloroethane	88		70-130	3	20
Tetrachloroethene	97	95	70-130	2	20
Chlorobenzene	94	6	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	34	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	PP /	RPD Qual Limits
MCP Volatile Organics by EPA 5035	High - Westborough Lab Associa	ated sample(s): 27	Batch: W	G1285102-3 VG	5102-4	
Vinyl chloride	99	98		7 130	1	20
Chloroethane	92	89		70-30	3	20
1,1-Dichloroethene	96	96		1-130	0	20
trans-1,2-Dichloroethene	96	96		0-130	0	20
Trichloroethene	96	97		70-130	1	20
1,2-Dichlorobenzene	92	93		70-130	1	20
1,3-Dichlorobenzene	94			70-130	1	20
1,4-Dichlorobenzene	94	94	·	70-130	0	20
Methyl tert butyl ether	86	8		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	02	100		70-130	2	20
Acetone	12	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



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	Qual	RPD Limits	
MCP Volatile Organics by EPA 5035 High	- Westborough Lab	Associate	d sample(s): 27	Batch: V	VG1285102-3 VG	12 5102-4			
2,2-Dichloropropane	97		97		7 130	0		20	
1,2-Dibromoethane	92		94		70-30	2		20	
1,3-Dichloropropane	89		91		1-130	2		20	
1,1,1,2-Tetrachloroethane	97		98		0-130	1		20	
Bromobenzene	88		89		70-130	1		20	
n-Butylbenzene	97		97		70-130	0		20	
sec-Butylbenzene	94				70-130	1		20	
tert-Butylbenzene	93		95		70-130	0		20	
o-Chlorotoluene	94		5		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	38		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	



Project Name: TOMBARELLO SITE

17001426

Project Number:

Lab Number:

L1940717

Report Date:

Pa	rameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP.	Qual	RPD Limits	
MC	P Volatile Organics by EPA 5035 High - \	Vestborough Lab	Associated :	sample(s): 27	Batch: V	VG1285102-3 VG1	2 5102-4			
	Tertiary-Amyl Methyl Ether	83		85		7 130	2		20	
	1,4-Dioxane	95		102		70-30	7		20	

	LCS	LCSD	Acceptance
Surrogate	% Recovery Qua	al %Recovery Qual	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







Serial_No:09201912:30

Lab Number: L1940717

> **Report Date:** 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101 Client ID: B-09 (1-3)

TOMBARELLO SITE

17001426

LAWRENCE, MA Sample Location:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/14/19 08:56

Analyst: **MEO** Percent Solids: 93%

Date Collected: 09/05/19 09:54 Date Received:

Field Prep:

09/06/19 Not Specified

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: Sample Temperature upon receipt:

Sample Extraction method:

risfactory Received on Ice Extracted Per the Method

Parameter	Result	Qualifie	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons -	Westborough L	ab				
C9-C18 Aliphatics	ND	1 V	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	To the second		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)anthrace	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



Serial_No:09201912:30

Project Name: TOMBARELLO SITE Lab Number: L1940717

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101

Client ID: B-09 (1-3) Date Collected: Date Received: 09/05/19 09:54

Sample Location:

Project Number:

LAWRENCE, MA

17001426

Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter

Result

Qualifier

Units

RL

MDL

Dilution Factor

Extractable P

		nesun Qu	anner ont	, ILL	MIDE	Dilution i	٠
Pet	roleum 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 1/			
				,			
	0,						

Serial_No:09201912:30

Project Name: TOMBARELLO SITE Lab Number: L1940717

Report Date: 09/20/19

Date Collected:

SAMPLE RESULTS

Lab ID: L1940717-105 D

17001426

Client ID: B-09 (5-7)-2 Sample Location: LAWRENCE, MA Date Received: 09/06/19
Field Prep: Not Specified

09/05/19 10:02

Sample Depth:

Project Number:

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: Sample Temperature upon receipt: Sample Extraction method: Susfactory Received on Ice Extracted Per the Method

Qualifie **Parameter** Result RL MDL **Dilution Factor** Extractable Petroleum Hydrocarbons - Westborough Lab C9-C18 Aliphatics ND mg/kg 27.5 --4 C19-C36 Aliphatics 136 4 mg/kg 27.5 C11-C22 Aromatics 4 503 mg/kg 27.5 --C11-C22 Aromatics, Adjusted 31 27.5 4 mg/kg Naphthalene mg/kg 1.37 4 ND 2-Methylnaphthalene 1.37 4 mg/kg --ND Acenaphthylene mg/kg 1.37 4 __ Acenaphthene 2.13 mg/kg 1.37 4 Fluorene 2.42 mg/kg 1.37 4 --4 Phenanthrene 21.7 1.37 mg/kg --4 Anthracene 6.27 mg/kg 1.37 Fluoranthene 34.7 mg/kg 1.37 --4 Pyrene 28.9 4 1.37 mg/kg --Benzo(a)anthrac 4 15.5 mg/kg 1.37 __ Chrysene 15.9 1.37 4 mg/kg Benzo(b)fluoranthene 13.7 mg/kg 1.37 __ 4 4 Benzo(k)fluoranthene 13.1 mg/kg 1.37 Benzo(a)pyrene 13.8 mg/kg 1.37 4 Indeno(1,2,3-cd)Pyrene 9.12 mg/kg 1.37 4 4 Dibenzo(a,h)anthracene 2.60 mg/kg 1.37 __ 7.64 4 Benzo(ghi)perylene mg/kg 1.37



Serial_No:09201912:30

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 LAWRENCE, MA Sample Location:

Date Collected:

09/05/19 10:02

Date Received:

09/06/19

Field Prep:

Not Specified

Sample Depth:

MDL Qualifier RL**Dilution Factor Parameter** Result Units

	result (guainter Office	, IL	WIDE	Dilution Lactor
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		46 14		
				•	
	•				
		•			



Serial_No:09201912:30

Project Name: TOMBARELLO SITE Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11

Client ID: SB-4 (1-2)

LAWRENCE, MA Sample Location:

17001426

Sample Depth:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/14/19 03:15

Analyst: **MEO** Percent Solids: 95%

Date Collected: 09/04/19 08:50 Date Received: 09/06/19

Field Prep: Not Specified

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: Sample Temperature upon receipt:

Sample Extraction method:

risfactory Received on Ice

Extracted Per the Method

Parameter	Result	Qualifie	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarb	ons - Westborough La	ıb				
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	•		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)anthrace	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



Serial_No:09201912:30

Lab Number: L1940717

> Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11

Client ID: SB-4 (1-2) LAWRENCE, MA Sample Location:

Date Collected:

09/04/19 08:50

Date Received: Field Prep:

09/06/19 Not Specified

Sample Depth:

Project Name:

Project Number:

MDL **Parameter** Qualifier RL**Dilution Factor** Result Units

Extractable P

TOMBARELLO SITE

17001426

	Result	addinier Onits	11.	MDL	Dilution ractor
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		46. 4		
			X		
)		



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113 D

TOMBARELLO SITE

17001426

Client ID: B-05 (1-3)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/16/19 15:20

Analyst: MEO Percent Solids: 87%

Date Collected: 0

09/05/19 10:54

Date Received: 09/06/19
Field Prep: Not Specified

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: Sample Temperature upon receipt: Sample Extraction method: Scisfactory Received on Ice

Extracted Per the Method

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocari	bons - Westborough La	ь			
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	252	mg/kg	36.4		5
Naphthalene	•	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)anthrace	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



Serial_No:09201912:30

TOMBARELLO SITE

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113 D

17001426

Client ID: B-05 (1-3) LAWRENCE, MA Sample Location:

Date Collected: 09/05/19 10:54 Date Received: 09/06/19

Not Specified

Field Prep:

Sample Depth:

Project Name:

Project Number:

MDL **Parameter** Qualifier RL**Dilution Factor** Result Units

Extractable P

Surrogate	% Recovery	Qualifier	Acceptance Criteria	(/).
Chloro-Octadecane	57		40-140	
o-Terphenyl	74		40-140	
2-Fluorobiphenyl	83		45 140	
2-Bromonaphthalene	82		46 M	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115 Date Collected:
Client ID: B-05 (3-5)-2 Date Received:

TOMBARELLO SITE

LAWRENCE, MA

17001426

Date Received: 09/06/19
Field Prep: Not Specified

09/05/19 10:57

Sample Depth:

Sample Location:

Project Name:

Project Number:

Matrix: Soil Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1 Extraction Date: 09/11/19 00:55

Analytical Date: 09/14/19 05:08 Cleanup Method1: EPH-04-1
Analyst: MEO Cleanup Date1: 09/11/19
Percent Solids: 69%

Quality Control Information

Condition of sample received: Sample Temperature upon receipt: Sample Extraction method: Susfactory
Received on Ice
Extracted Per the Method

Qualifie **Parameter** Result 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 1 ó4.4 mg/kg 9.33 --C11-C22 Aromatics, Adjusted 48 9.33 1 mg/kg Naphthalene mg/kg 0.466 1 ND 2-Methylnaphthalene 0.466 1 mg/kg --ND Acenaphthylene mg/kg 0.466 1 __ Acenaphthene 0.500 mg/kg 0.466 1 Fluorene ND mg/kg 0.466 1 --Phenanthrene 2.60 0.466 1 mg/kg --1 Anthracene 0.490 mg/kg 0.466 Fluoranthene 2.74 mg/kg 0.466 --1 2.34 Pyrene 0.466 1 mg/kg --Benzo(a)anthrac 1 1.14 mg/kg 0.466 __ Chrysene 1.33 0.466 1 mg/kg Benzo(b)fluoranthene 1.04 mg/kg 0.466 --1 1 Benzo(k)fluoranthene 1.07 mg/kg 0.466 Benzo(a)pyrene 1.07 mg/kg 0.466 1 Indeno(1,2,3-cd)Pyrene 0.719 mg/kg 0.466 1 1 Dibenzo(a,h)anthracene ND mg/kg 0.466 __ 0.580 1 Benzo(ghi)perylene mg/kg 0.466



Serial_No:09201912:30

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 LAWRENCE, MA Sample Location:

Date Collected:

09/05/19 10:57

Date Received: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter

Result

Qualifier

Units

RI

MDI

Dilution Factor

Extractable P

	Result	Qualifier	Units	RL	MDL	Dilution Fact
Petroleum Hydrocarbons -	Westborough Lab					
Surrogate	% Recovery	v Qual	ifier	Acceptance Criteria		
Chloro-Octadecane	62			40-140		
o-Terphenyl	61			40-140		
2-Fluorobiphenyl	70			40 140		
2-Bromonaphthalene	69			46.14		
				,		
	R					



Serial_No:09201912:30

Project Name: TOMBARELLO SITE Lab Number:

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12 Client ID: SB-4 (2-3)

Sample Location: LAWRENCE, MA

17001426

Date Collected: 09/04/19 08:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Number:

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: Sample Temperature upon receipt: Sample Extraction method: Susfactory
Received on Ice
Extracted Per the Method

Parameter	Result	Qualifie	Unito	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocar	bons - Westborough La	b				
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 (mg/kg	6.80		1
Naphthalene	0		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)anthrac	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



Serial_No:09201912:30

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) LAWRENCE, MA Sample Location:

Date Collected:

09/04/19 08:40

Date Received: Field Prep:

09/06/19 Not Specified

Dilution Factor

Sample Depth:

MDL **Parameter** Qualifier RLResult Units

Extractable P

	result (guanner onnes	116	MIDE	Dilution Lactor
Petroleum Hydrocarbons - \	Westborough Lab				
Surrogate	% Recovery	Qualifier	Acceptance Criteria		•
Chloro-Octadecane	59		40-140		
o-Terphenyl	57		40-140		
2-Fluorobiphenyl	68		47 140		
2-Bromonaphthalene	67		40 0		
)		
	Y				



Serial_No:09201912:30

09/05/19 13:36

Not Specified

09/06/19

EPA 3546

Lab Number: L1940717

Date Collected:

Date Received:

Extraction Method:

Field Prep:

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138

TOMBARELLO SITE

17001426

Client ID: SB-1 (1-2)

Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/14/19 09:34

Analyst: MEO Percent Solids: 92%

Extraction Date: 09/11/19 00:55

Cleanup Method1: EPH-04-1 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Sample Temperature upon receipt:

Sample Extraction method:

Susfactory Received on Ice

Extracted Per the Method

Parameter	Result	Qualified Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarb	ons - Westborough La	ab			
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	202	mg/kg	13.8		2
Naphthalene	· ·	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)anthrace	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



Serial_No:09201912:30

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) LAWRENCE, MA Sample Location:

Date Collected:

09/05/19 13:36

Date Received: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter

Result

Qualifier

Units

RL

MDL

Dilution Factor

Extractable P

Surrogate	% Recovery	Qualifier	Acceptance Criteria	(/.
Chloro-Octadecane	58		40-140	
o-Terphenyl	59		40-140	
2-Fluorobiphenyl	75		47 140	
2-Bromonaphthalene	74		46 4	
	0			

Serial_No:09201912:30

Project Name: TOMBARELLO SITE Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139 D

17001426

Client ID: SB-1 (2-3)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/16/19 15:59

Analyst: MEO Percent Solids: 90%

Date Collected: 09/05/19 13:39

Extraction Date:

Date Received: 09/06/19
Field Prep: Not Specified

09/11/19 00:55

Extraction Method: EPA 3546

Cleanup Method1: EPH-04-1 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Sample Temperature upon receipt: Sample Extraction method: Susfactory
Received on Ice
Extracted Per the Method

Qualifie **Parameter** Result RL MDL **Dilution Factor** Extractable Petroleum Hydrocarbons - Westborough Lab C9-C18 Aliphatics ND mg/kg 71.7 --10 C19-C36 Aliphatics ND 10 mg/kg 71.7 71.7 C11-C22 Aromatics 10 460 mg/kg --C11-C22 Aromatics, Adjusted 27 71.7 10 mg/kg --Naphthalene mg/kg 3.58 10 2-Methylnaphthalene ND 3.58 10 mg/kg --ND Acenaphthylene mg/kg 3.58 10 __ Acenaphthene ND mg/kg 3.58 10 Fluorene ND mg/kg 3.58 10 --Phenanthrene 40.9 3.58 10 mg/kg --10 Anthracene 7.37 mg/kg 3.58 Fluoranthene 37.2 mg/kg 3.58 --10 Pyrene 28.6 3.58 10 mg/kg --Benzo(a)anthrac 10 14.2 mg/kg 3.58 __ Chrysene 13.8 3.58 10 mg/kg Benzo(b)fluoranthene 10.5 mg/kg 3.58 __ 10 Benzo(k)fluoranthene 11.5 10 mg/kg 3.58 Benzo(a)pyrene 11.9 mg/kg 3.58 10 Indeno(1,2,3-cd)Pyrene 7.27 mg/kg 3.58 10 ND 10 Dibenzo(a,h)anthracene mg/kg 3.58 __ 6.20 10 Benzo(ghi)perylene mg/kg 3.58



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139 D

Client ID: SB-1 (2-3) LAWRENCE, MA Sample Location:

Date Collected: 09/05/19 13:39 Date Received:

Field Prep:

09/06/19 Not Specified

Sample Depth:

Project Name:

Project Number:

MDL **Parameter** Qualifier RL**Dilution Factor** Result Units

Extractable P

TOMBARELLO SITE

17001426

Petroleum Hydrocarbons - W	estborough Lab				
Surrogate	% Recovery	Qualifier	Acceptance Criteria		
Chloro-Octadecane	68		40-140		
o-Terphenyl	74		40-140		
2-Fluorobiphenyl	68		40 140		
2-Bromonaphthalene	67		46 1/	ľ	
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Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140

TOMBARELLO SITE

17001426

Client ID: SB-DUP-1

Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1

Analytical Date: 09/14/19 12:46

Analyst: MEO Percent Solids: 95%

Date Collected: 09/05/19 00:00

Date Received: 09/06/19 Field Prep: Not Specified

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:

Sample Temperature upon receipt:

Sample Extraction method:

Susfactory
Received on Ice

Extracted Per the Method

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarb	ons - Westborough La	ab			
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	Ն 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)anthrac	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



Serial_No:09201912:30

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140

17001426

Client ID: SB-DUP-1 LAWRENCE, MA Sample Location:

Date Collected: 09/05/19 00:00 Date Received:

09/06/19

Field Prep:

Not Specified

Sample Depth:

Project Number:

MDL **Parameter** Qualifier RL**Dilution Factor** Result Units

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		46 1/		
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Serial_No:09201912:30

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: Sample Temperature upon receipt: Sample Extraction method: Received on Ice
Extracted Per the Method

Parameter	Result	Qualifie	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocar	bons - Westborough Lal	b				
C9-C18 Aliphatics	ND		mg/kg	8.22		1
C19-C36 Aliphatics	98.5		mg/kg	8.22		1
C11-C22 Aromatics	/9.3		mg/kg	8.22		1
C11-C22 Aromatics, Adjusted	59 7		mg/kg	8.22		1
Naphthalene	•		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)anthrac	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



Serial_No:09201912:30

TOMBARELLO SITE

Lab Number: L1940717

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143

17001426

Client ID: SB-1 (5-7)-2 LAWRENCE, MA Sample Location:

Date Collected: 09/05/19 13:48 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

MDL Qualifier RL**Dilution Factor Parameter** Result Units

	Result	Qualifier	Units	KL	MIDL	Dilution Factor
Petroleum Hydrocarbons -	Westborough Lab					
Surrogate	% Recovery	Quali	ifier	Acceptance Criteria		•
Chloro-Octadecane	40			40-140		
o-Terphenyl	57			40-140	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
2-Fluorobiphenyl	76			40 140		
2-Bromonaphthalene	76			40. 7) '	
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Serial_No:09201912:30

09/04/19 09:10

Not Specified

09/06/19

EPA 3546

EPH-04-1

09/11/19

09/11/19 00:54

Project Name: TOMBARELLO SITE

Project Number: 17001426 L1940717

Report Date: 09/20/19

Lab Number:

Date Collected:

Date Received:

Extraction Method:

Cleanup Method1:

Extraction Date:

Cleanup Date1:

Field Prep:

SAMPLE RESULTS

Lab ID: L1940717-15 Client ID: SB-4 (5-7)-2

Sample Location:

LAWRENCE, MA

Sample Depth:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date:

Analyst: **MEO** Percent Solids: 75%

09/14/19 05:46

Quality Control Information

Condition of sample received:

Sample Temperature upon receipt:

Sample Extraction method:

risfactory Received on Ice

Extracted Per the Method

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocari	bons - Westborough La	ab			
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	21.0	mg/kg	8.54		1
Naphthalene	Ō	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)anthrace	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



Serial_No:09201912:30

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:

Date Collected:

09/04/19 09:10

LAWRENCE, MA

Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

MDL **Parameter** Qualifier RL**Dilution Factor** Result Units

surrogate	% Recovery	Qualifier	Acceptance Criteria	
chloro-Octadecane	65		40-140	
-Terphenyl	61		40-140	
-Fluorobiphenyl	75		46 140	
-Bromonaphthalene	74		46 1/4	•
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Serial_No:09201912:30

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: Sample Temperature upon receipt:

Sample Extraction method:

Susfactory Received on Ice Extracted Per the Method

Parameter	Result	Qualifie	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons	- Westborough La	ab				
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	0		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)anthrac	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



Serial_No:09201912:30

TOMBARELLO SITE

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17

Client ID: SB-3 (1-2) LAWRENCE, MA Sample Location:

Date Collected: 09/04/19 09:25

Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Parameter Qualifier RLMDL **Dilution Factor** Result Units

Extractable P

17001426

Petroleum Hydrocarbons - We	estborough Lab			
Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Chloro-Octadecane	56		40-140	
o-Terphenyl	66		40-140	
2-Fluorobiphenyl	75		46 140	
2-Bromonaphthalene	74		46.14	•
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	•			



Serial_No:09201912:30

Project Name: TOMBARELLO SITE Lab Number:

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18

17001426

Client ID: SB-3 (2-3)

Sample Location: LAWRENCE, MA

Sample Depth:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1

Analytical Date: 09/14/19 08:18

Analyst: MEO Percent Solids: 95%

Date Collected:

Date Received:

Field Prep:

09/04/19 09:30

09/06/19

Not Specified

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:

Sample Temperature upon receipt:

Sample Extraction method:

Susfactory Received on Ice

Extracted Per the Method

Parameter	Result	Qualifie	Unites	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocar	bons - Westborough La	b				
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	0		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)anthrace	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



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18

Client ID: SB-3 (2-3) LAWRENCE, MA Sample Location:

Date Collected: 09/04/19 09:30 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

MDL Qualifier RL**Dilution Factor Parameter** Result Units

TOMBARELLO SITE

17001426

	Result	addinier Office	1/2	MIDE	Dilution Lactor
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		46.14		
		1	X		
	R				



Serial_No:09201912:30

Lab Number: L1940717

> **Report Date:** 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21

Client ID: SB-3 (5-7)-2

TOMBARELLO SITE

17001426

LAWRENCE, MA Sample Location:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 09/14/19 10:12

Analytical Date: Analyst: **MEO**

Percent Solids: 83% Date Collected: Date Received:

Field Prep:

09/04/19 09:40

09/06/19

Not Specified

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:

Sample Temperature upon receipt:

Sample Extraction method:

risfactory Received on Ice

Extracted Per the Method

Parameter	Result	Qualifie	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons -	Westborough L	ab				
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	•		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)anthrace	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



Serial_No:09201912:30

TOMBARELLO SITE

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21

Client ID: SB-3 (5-7)-2 LAWRENCE, MA Sample Location:

17001426

Date Collected: 09/04/19 09:40 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

MDL Qualifier RL**Parameter** Result Units **Dilution Factor**

		· · · · · · · · · · · · · · · · · · ·		
estborough Lab				
% Recovery	Qualifier	Acceptance Criteria		
62		40-140		
61		40-140		
69		40 140		
68		46 W	ľ	
		Y		
	1) '		
	62 61 69	% Recovery Qualifier 62 61 69	% Recovery Qualifier Acceptance Criteria 62 40-140 61 40-140 69 40-140	% Recovery Qualifier Acceptance Criteria 62 40-140 61 40-140 69 46-140



Serial_No:09201912:30

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

Sample Depth:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/14/19 13:25

Analyst: MEO Percent Solids: 90%

Date Collected:

09/04/19 10:05

Date Received: 0
Field Prep: N

09/06/19 Not Specified

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: Sample Temperature upon receipt:

Sample Extraction method:

Susfactory Received on Ice

Extracted Per the Method

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbo	ons - Westborough La	ab			
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	•	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)anthrac	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



Serial_No:09201912:30

L1940717

TOMBARELLO SITE Lab Number:

> Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23

17001426

Client ID: SB-2 (1-2) LAWRENCE, MA Sample Location:

Date Collected: 09/04/19 10:05 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

MDL **Parameter** Qualifier RL**Dilution Factor** Result Units

	resuit &	damiei omis	11.	WIDE	Dilution i actor
Petroleum Hydrocarbons - V	Westborough Lab				
Surrogate	% Recovery	Qualifier	Acceptance Criteria		•
Chloro-Octadecane	57		40-140		
o-Terphenyl	62		40-140		
2-Fluorobiphenyl	69		46 140		
2-Bromonaphthalene	67		46 14		
			N .		
			1		
	Y				



Serial_No:09201912:30

Lab Number: L1940717

> **Report Date:** 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24 Client ID: SB-2 (2-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/14/19 04:30

Analyst: **MEO** Percent Solids: 89%

Date Collected: 09/04/19 10:07 Date Received:

09/06/19 Field Prep: Not Specified

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: Sample Temperature upon receipt:

Sample Extraction method:

risfactory Received on Ice

Extracted Per the Method

Parameter	Result	Qualifie	Unito	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocar	bons - Westborough La	b				
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	102		mg/kg	7.07		1
Naphthalene	•		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)anthragene	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



Serial_No:09201912:30

Lab Number: L1940717

> Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24

Client ID: SB-2 (2-3) LAWRENCE, MA Sample Location:

Date Collected: 09/04/19 10:07 Date Received:

09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

MDL Qualifier RL**Dilution Factor Parameter** Result Units

TOMBARELLO SITE

17001426

Petroleum Hydrocarbons - We	estborough Lab				
Surrogate	% Recovery	Qualifier	Acceptance Criteria		
Chloro-Octadecane	49		40-140		
o-Terphenyl	46		40-140		
2-Fluorobiphenyl	66		40 140		
2-Bromonaphthalene	66		46 4	Ť	
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Serial_No:09201912:30

Project Name: TOMBARELLO SITE Lab Number: L1940717

Project Number: 17001426 **Report Date:** 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27 D Date Collected: 09/04/19 10:20

Client ID: SB-2 (5-7)-2 Date Received: 09/06/19
Sample Location: LAWRENCE, MA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1 Extraction Date: 09/11/19 00:54
Analytical Date: 09/17/19 03:19 Cleanup Method1: EPH-04-1

Analyst: MEO Cleanup Date1:
Percent Solids: 81%

Quality Control Information

Condition of sample received: Sample Temperature upon receipt: Sample Extraction method: Susfactory Received on Ice Extracted Per the Method

09/11/19

Parameter	Result	Qualifie	Unito	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocar	bons - Westborough La	b				
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	0		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)anthrac	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



Serial_No:09201912:30

Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number:

L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID:

D L1940717-27

SB-2 (5-7)-2 LAWRENCE, MA Sample Location:

Date Collected:

09/04/19 10:20

Client ID:

Date Received: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter

Dilution Factor

	Result	Qualifier	Units	RL	MDL	Dilution Facto
Petroleum Hydrocarbons -	Westborough Lab					
Surrogate	% Recovery	, Qua	alifier	Acceptance Criteria		•
Chloro-Octadecane	0		Q	40-140		
o-Terphenyl	0		Q	40-140		
2-Fluorobiphenyl	86			40 140		
2-Bromonaphthalene	85			46 14		
				X		
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	•					

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 D

TOMBARELLO SITE

17001426

Client ID: D-07 (1-3)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/17/19 03:51

Analyst: MEO Percent Solids: 91%

Date Collected:

09/04/19 12:16

Date Received: 09/06/19
Field Prep: Not Specified

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: Sample Temperature upon receipt: Sample Extraction method: Susfactory Received on Ice

Extracted Per the Method

Parameter	Result	Qualifier Ums	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocar	bons - 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	•	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)anthragene	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



Serial_No:09201912:30

Lab Number: **Report Date:**

L1940717

09/20/19

SAMPLE RESULTS

Lab ID:

L1940717-44

17001426

D

TOMBARELLO SITE

Date Collected:

09/04/19 12:16

Client ID:

Project Name:

Project Number:

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

% Recovery	Qualifier	Acceptance Criteria	(/).
0	Q	40-140	
0	Q	40-140	
86		40 140	
86		46 14	
	1	JY T	
	0 0 86	o Q o Q 86	% Recovery Qualifier Criteria 0 Q 40-140 0 Q 40-140 86 47 40



Serial_No:09201912:30

Lab Number: L1940717

> **Report Date:** 09/20/19

> > risfactory

SAMPLE RESULTS

Lab ID: L1940717-45 Date Collected: 09/04/19 12:30

Client ID: D-07 (7-9) Date Received: 09/06/19 LAWRENCE, MA Field Prep: Sample Location: Not Specified

Sample Depth:

Project Name:

Project Number:

TOMBARELLO SITE

17001426

Matrix: Soil Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1 **Extraction Date:** 09/12/19 22:36 Analytical Date: 09/14/19 18:13 Cleanup Method1: EPH-04-1

Analyst: SR Cleanup Date1: 09/13/19 Percent Solids: 78%

Quality Control Information

Condition of sample received: Sample Temperature upon receipt:

Received on Ice Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualified Unit	s RL	MDL	Dilution Factor
Extractable Petroleum Hydrocark	oons - Westborough La	b			
C9-C18 Aliphatics	ND	mg/k	g 8.58		1
C19-C36 Aliphatics	18.5	mg/k	g 8.58		1
C11-C22 Aromatics	/3.4	mg/k	g 8.58		1
C11-C22 Aromatics, Adjusted	51 ⁻	mg/k	g 8.58		1
Naphthalene	•	mg/k	g 0.429		1
2-Methylnaphthalene	ND	mg/k	g 0.429		1
Acenaphthylene	ND	mg/k	g 0.429		1
Acenaphthene	1.66	mg/k	g 0.429		1
Fluorene	ND	mg/k	g 0.429		1
Phenanthrene	2.46	mg/k	g 0.429		1
Anthracene	0.843	mg/k	g 0.429		1
Fluoranthene	3.73	mg/k	g 0.429		1
Pyrene	3.03	mg/k	g 0.429		1
Benzo(a)anthrace	1.60	mg/k	g 0.429		1
Chrysene	1.87	mg/k	g 0.429		1
Benzo(b)fluoranthene	1.34	mg/k	g 0.429		1
Benzo(k)fluoranthene	1.40	mg/k	g 0.429		1
Benzo(a)pyrene	1.60	mg/k	g 0.429		1
Indeno(1,2,3-cd)Pyrene	1.10	mg/k	g 0.429		1
Dibenzo(a,h)anthracene	ND	mg/k	g 0.429		1
Benzo(ghi)perylene	1.04	mg/k	g 0.429		1



Serial_No:09201912:30

Lab Number: L1940717

> Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45

Client ID: D-07 (7-9) LAWRENCE, MA Sample Location:

Date Collected: 09/04/19 12:30 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

MDL Qualifier RL**Dilution Factor Parameter** Result Units

TOMBARELLO SITE

17001426

Petroleum Hydrocarbons - V	Vestborough 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 1/	Ť	
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Serial_No:09201912:30

Project Name: TOMBARELLO SITE Lab Nu

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50 D

17001426

Client ID: SB-DUP-5 Sample Location: LAWRENCE, MA

Sample Depth:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/17/19 01:10

Analyst: MEO Percent Solids: 91%

Date Collected: 0

09/04/19 00:00

Date Received: 09/06/19 Field Prep: Not Specified

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: Sample Temperature upon receipt: Sample Extraction method: Susfactory Received on Ice Extracted Per the Method

Parameter	Result	Qualifie	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - W	estborough L	ab				
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 53		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)anthrace	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



Serial_No:09201912:30

Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number:

L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: Client ID: L1940717-50 D

SB-DUP-5 LAWRENCE, MA Date Collected:

09/04/19 00:00

Sample Location:

Date Received: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter

Regult

Qualifier

Unite

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Dilution Factor

	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons -	Westborough Lab					
Surrogate	% Recovery	v Qual	ifier	Acceptance Criteria		
Chloro-Octadecane	74			40-140		
o-Terphenyl	250		Q	40-140		
2-Fluorobiphenyl	81			40 140		
2-Bromonaphthalene	81			46.14	Ť	
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Serial_No:09201912:30

Lab Number: L1940717

> **Report Date:** 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55 D

TOMBARELLO SITE

17001426

Client ID: E-06 (1-3) LAWRENCE, MA Sample Location:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/17/19 01:42

Analyst: **MEO** Percent Solids: 94%

Date Collected: 09/04/19 13:24 Date Received:

Field Prep:

09/06/19 Not Specified

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: Sample Temperature upon receipt: Sample Extraction method:

risfactory Received on Ice Extracted Per the Method

Parameter	Result	Qualifier Umrs	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarl	oons - 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	272	mg/kg	35.0		5
Naphthalene	Q	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)anthrac	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



Serial_No:09201912:30

Project Name: TOMBARELLO SITE Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: D L1940717-55

17001426

Client ID: E-06 (1-3) LAWRENCE, MA Sample Location:

Date Collected: 09/04/19 13:24 Date Received: 09/06/19

Not Specified

Field Prep:

Sample Depth:

Project Number:

MDL **Parameter** Qualifier RL**Dilution Factor** Result Units

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Chloro-Octadecane	47		40-140	
o-Terphenyl	111		40-140	
2-Fluorobiphenyl	79		40 140	
2-Bromonaphthalene	80		40.14	

Serial_No:09201912:30

Lab Number: L1940717

> **Report Date:** 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56 D

TOMBARELLO SITE

17001426

Client ID: E-06 (5-7)-2 LAWRENCE, MA Sample Location:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 98,EPH-04-1.1 Analytical Date: 09/17/19 02:14

Analyst: **MEO** Percent Solids: 79%

Date Collected: 09/04/19 13:35

Extraction Method:

Date Received: 09/06/19 Field Prep: Not Specified

Extraction Date: 09/12/19 22:36 Cleanup Method1: EPH-04-1

EPA 3546

Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Sample Temperature upon receipt:

Sample Extraction method:

risfactory Received on Ice Extracted Per the Method

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbo	ons - Westborough La	b			
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	852	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)anthrace	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



Serial_No:09201912:30

Lab Number:

L1940717

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID:

D L1940717-56

TOMBARELLO SITE

Client ID: E-06 (5-7)-2 Sample Location:

Date Collected:

09/04/19 13:35

17001426

Date Received: LAWRENCE, MA Field Prep:

09/06/19 Not Specified

Sample Depth:

Project Name:

Project Number:

Parameter

Result

Qualifier

Units

RL

MDL

Dilution Factor

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 1/	
		(



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		N.JL	
Extractable Petroleum Hydrocarbo	ns - Westbo	orough Lab	for sample	e(s): 11- 2,15	7-18,21,23-	
24,27,44,101,105,113,115,138-14(WG128253				
C9-C18 Aliphatics	ND		m	6.50		
C19-C36 Aliphatics	ND		ng/kg	6.50		
C11-C22 Aromatics	ND	<u> </u>	g/kg	6.50		
C11-C22 Aromatics, Adjusted	ND		mg/ks	6.50		
Naphthalene	ND		n. (kg	0.325		
2-Methylnaphthalene	ND		ng/kg	0.325		
Acenaphthylene	N		mg/kg	0.325		
Acenaphthene	ND		mg/kg	0.325		
Fluorene			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)fluor	ND		mg/kg	0.325		
Benzo(k)fl oranthene	ND		mg/kg	0.325		
Benza(a)p, ene	ND		mg/kg	0.325		
Indeno(1, 2,3-ca,,rene	ND		mg/kg	0.325		
nthracene	ND		mg/kg	0.325		
Ben o(ghi)perylene	ND		mg/kg	0.325		



Serial_No:09201912:30

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: Analytical Date: 98,EPH-04-1.1 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

Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 11 2,15 7-18,21,23-24,27,44,101,105,113,115,138-140 Batch: WG1282535-1

		Acceptance
Surrogate	%Recovery	Qualifier Criteria
Chloro-Octadecane	69	40-140
o-Terphenyl	64	40-140
2-Fluorobiphenyl	75	40-140
2-Bromonaphthalene	74	40-140



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		N.JL	
Extractable Petroleum Hydrocarbor WG1283558-1	ıs - Westbo	rough Lab	for sample	e(s): 45, 9,55	6,143	Batch:
C9-C18 Aliphatics	ND		m	6.43		
C19-C36 Aliphatics	ND		ng/kg	6.43		
C11-C22 Aromatics	ND	•	g/kg	6.43		
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.43		
Naphthalene	ND	•	n. /kg	0.322		
2-Methylnaphthalene	ND		ng/kg	0.322		
Acenaphthylene	N		mg/kg	0.322		
Acenaphthene	ND		mg/kg	0.322		
Fluorene			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)fluor ne	ND		mg/kg	0.322		
Benzo(k)floranthene	ND		mg/kg	0.322		
Benz (a)p, ene	ND		mg/kg	0.322		
Indeno(1, 2,3-cu,,rene	ND		mg/kg	0.322		
nthracene	ND		mg/kg	0.322		
Ben, o(ghi)perylene	ND		mg/kg	0.322		



Serial_No:09201912:30

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 98
Analytical Date: 09

98,EPH-04-1.1 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

Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 45, 0,55 6,143 Batch: WG1283558-1

Acceptance %Reco Criteria Qualifier Surrogate Chloro-Octadecane 40-140 63 79 40-140 o-Terphenyl 2-Fluorobiphenyl 83 40-140 2-Bromonaphthalene 83 40-140



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery		.CSD ecovery	Qual	%Recovery Limits	PP.	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Wes WG1282535-3	tborough Lab Asso	ociated sample(s):	11-12,15,17	7-18,21,23	-24,27,44,10 (105	1.3,115,138-1	I40 Batch:	WG1282535-2
C9-C18 Aliphatics	56		68		40 0	19		25
C19-C36 Aliphatics	64		79		40-100	21		25
C11-C22 Aromatics	54		58		4 -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				40-140	9		25
Fluorene	49		55		40-140	12		25
Phenanthrene	54		30		40-140	11		25
Anthracene	54	X	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			57		40-140	7		25
Benzo(k)fluoranthene	53		56		40-140	6		25
Benzo(a)pyrene			55		40-140	6		25
Indeno(1,2,3-cd)Pyrene	20		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



Project Name: TOMBARELLO SITE

17001426

Project Number:

Lab Number:

L1940717

Report Date:

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	RPD Qual Limits
xtractable Petroleum Hydrocarbons - Westl VG1282535-3	oorough Lab As	ssociated samp	le(s): 11-12,15,	17-18,21,2	3-24,27,44,167,105	5,1 3,115,138-1	40 Batch: WG1282535-2
Dodecane (C12)	50		60		40 0	18	25
Tetradecane (C14)	50		62		40-100	21	25
Hexadecane (C16)	53		68		4 -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				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
Triacontane (C30)	65		80		40-140	21	25
Hexatriacontane (C36)	66	Y	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	



Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery	Qual %	LCSD Recovery	Qual	%Recovery Limits	PP	Qual	RPD Limits	
Extractable Petroleum Hydrocarbons - Wes	stborough Lab Ass	ociated sample(s)): 45,50,55	-56,143	Batch: WG12 558	-2 WG1283	558-3		
C9-C18 Aliphatics	57		75		4 140	27	Q	25	
C19-C36 Aliphatics	70		79		40- 10	12		25	
C11-C22 Aromatics	77		91		4-140	17		25	
Naphthalene	54		72		.0-140	29	Q	25	
2-Methylnaphthalene	55		73		40-140	28	Q	25	
Acenaphthylene	62		81		40-140	27	Q	25	
Acenaphthene	63			V	40-140	27	Q	25	
Fluorene	69		- 8u	•	40-140	22		25	
Phenanthrene	76		9		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	V	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	30		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	



Project Name: TOMBARELLO SITE

Project Number:

17001426

Lab Number:

L1940717

Report Date:

Parameter	LCS %Recovery		LCSD ecovery	Qual	%Recovery Limits	₽ <i>P</i>	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westb	orough Lab As	sociated sample(s):	45,50,55-5	56,143	Batch: WG12 558-	WG12835	558-3	
Tetradecane (C14)	51		69		4 140	30	Q	25
Hexadecane (C16)	58		73		40- 40	23		25
Octadecane (C18)	66		77		41-140	15		25
Nonadecane (C19)	65		75		.0-140	14		25
Eicosane (C20)	67		77		40-140	14		25
Docosane (C22)	68		78		40-140	14		25
Tetracosane (C24)	67			V	40-140	14		25
Hexacosane (C26)	68		7,	•	40-140	12		25
Octacosane (C28)	68		7		40-140	12		25
Triacontane (C30)	69		77		40-140	11		25
Hexatriacontane (C36)	72		81		40-140	12		25

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
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 Breakthroug	0	0	







Serial_No:09201912:30

09/03/19 11:05

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-01

Client ID: AS-5

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Solid 97,8082A Analytical Method: Analytical Date: 09/16/19 15:20

Analyst: **AWS** 100% Percent Solids:

09/06/19 Field Prep: Not Specified

Date Collected:

Date Received:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 10:25 Cleanup Method: EPA 3665A Cleanup Date: 9/09/19

Cleanup Method EPA 3660B Cleanup Date: 9/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wo	estborough Lab						
	ND			510		,	
Aroclor 1016	ND		g/kg	54.8		1	Α
Aroclor 1221	ND		g/kg	54.8		1	Α
Aroclor 1232	ND		ug/.	54.8		1	Α
Aroclor 1242	ND	•	u (kg	54.8		1	Α
Aroclor 1248	ND		ng/kg	36.6		1	Α
Aroclor 1254	ND		ug/kg	54.8		1	Α
Aroclor 1260	38.4		ug/kg	36.6		1	В
Aroclor 1262	,D		ug/kg	18.3		1	Α
Aroclor 1268	ND	•	ug/kg	18.3		1	Α
PCBs, Total	38.		ug/kg	18.3		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	В
Decachlorobiphenyl	60		30-150	В
2,4,5,6-Tetrachloro-m-Vlene	73		30-150	Α
Decachlorobiphe	54		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-02 D

17001426

TOMBARELLO SITE

Client ID: AS-6

Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/14/19 00:29

Analyst: AWS Percent Solids: 100% Date Collected: 09/03/19 11:15

Cleanup Date:

Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

9/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wes	tborough Lab						
Aroclor 1016	ND		J/kg	590		10	Α
Aroclor 1221	ND		g/kg	590	<u></u>	10	A
Aroclor 1232	ND		ug).	590		10	Α
Aroclor 1242	ND		u (kg	590		10	Α
Aroclor 1248	ND		ng/kg	394		10	Α
Aroclor 1254	ND		ug/kg	590		10	Α
Aroclor 1260	7100		ug/kg	394		10	В
Aroclor 1262	4D		ug/kg	197		10	Α
Aroclor 1268	ND	•	ug/kg	197		10	Α
PCBs, Total	710		ug/kg	197		10	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В
2,4,5,6-Tetrachloro-m-	0	Q	30-150	Α
Decachlorobipher	0	Q	30-150	Α



Serial_No:09201912:30

09/03/19 11:20

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-03

Client ID: AS-7

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:32

Analyst: AWS Percent Solids: 99% Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 99/09/19
Cleanup Method: EPA 3660B

Cleanup Date: \$3/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	stborough Lab						
A 1 4040	ND			517			
Aroclor 1016	ND		g/kg	54.7		1	Α
Aroclor 1221	ND		g/kg	54.7		1	Α
Aroclor 1232	ND		ug/.	54.7		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	54.7		1	Α
Aroclor 1248	ND		ng/kg	36.5		1	В
Aroclor 1254	ND		ug/kg	54.7		1	Α
Aroclor 1260	ND		ug/kg	36.5		1	В
Aroclor 1262	4D		ug/kg	18.2		1	Α
Aroclor 1268	ND	•	ug/kg	18.2		1	Α
PCBs, Total	NL		ug/kg	18.2		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	В
Decachlorobiphenyl	60		30-150	В
2,4,5,6-Tetrachloro-m-	83		30-150	Α
Decachlorobipherol	59		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-04

Client ID: AS-8

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:43

Analyst: AWS Percent Solids: 100%

Date Collected: 09/03/19 11:25

Date Received: 09/06/19
Field Prep: Not Specified

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 - We	estborough Lab						
	ND			55.0			
Aroclor 1016	ND		g/kg	55.6		1	Α
Aroclor 1221	ND		g/kg	55.6		1	Α
Aroclor 1232	ND		ug/.	55.6		1	Α
Aroclor 1242	ND	A	u (kg	55.6		1	Α
Aroclor 1248	ND		ng/kg	37.0		1	Α
Aroclor 1254	ND		ug/kg	55.6		1	Α
Aroclor 1260	ND		ug/kg	37.0		1	В
Aroclor 1262	,D		ug/kg	18.5		1	Α
Aroclor 1268	ND	•	ug/kg	18.5		1	Α
PCBs, Total	NL		ug/kg	18.5		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	В
Decachlorobiphenyl	55		30-150	В
2,4,5,6-Tetrachloro-m-	78		30-150	Α
Decachlorobipher	51		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-05

Client ID: AS-1

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:55

Analyst: AWS Percent Solids: 99% Date Collected:

09/03/19 11:45

Date Received:

09/06/19

Field Prep:

Not Specified

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - V	Vestborough Lab						
Aroclor 1016	ND		ug/kg	56.0		1	Α
Aroclor 1221	ND		ug/kg	56.0		1	Α
Aroclor 1232	ND		ug/kg	56.0		1	Α
Aroclor 1242	ND		ug/kg	56.0		1	Α
Aroclor 1248	ND		ug/kg	37.3		1	А
Aroclor 1254	ND		ug/kg	56.0		1	Α
Aroclor 1260	986		ug/kg	37.3		1	В
Aroclor 1262	ND		ug/kg	18.7		1	Α
Aroclor 1268	ND		ug/kg	18.7		1	Α
PCBs, Total	986		ug/kg	18.7		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	В
Decachlorobiphenyl	60		30-150	В
2,4,5,6-Tetrachloro-m-xylene	85		30-150	Α
Decachlorobiphenyl	60		30-150	Α

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-06

Client ID: AS-2

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:07

Analyst: AWS
Percent Solids: 100%

Date Collected:

09/03/19 11:50

Date Received: 09/06/19

Field Prep: Not Specified

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 - Wo	estborough Lab						
Aroclor 1016	ND		ug/kg	51.5		1	А
Aroclor 1221	ND		ug/kg	51.5		1	Α
Aroclor 1232	ND		ug/kg	51.5		1	Α
Aroclor 1242	ND		ug/kg	51.5		1	Α
Aroclor 1248	ND		ug/kg	34.3		1	Α
Aroclor 1254	ND		ug/kg	51.5		1	Α
Aroclor 1260	508		ug/kg	34.3		1	В
Aroclor 1262	ND		ug/kg	17.2		1	Α
Aroclor 1268	ND		ug/kg	17.2		1	Α
PCBs, Total	508		ug/kg	17.2		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	В
Decachlorobiphenyl	51		30-150	В
2,4,5,6-Tetrachloro-m-xylene	80		30-150	Α
Decachlorobiphenyl	48		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-07

Client ID: AS-3

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:19

Analyst: AWS
Percent Solids: 100%

Date Collected:

Field Prep:

09/03/19 11:55

Date Received: 09/06/19

Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
						,	
Aroclor 1016	ND		ug/kg	57.2		1	Α
Aroclor 1221	ND		ug/kg	57.2		1	Α
Aroclor 1232	ND		ug/kg	57.2		1	Α
Aroclor 1242	ND		ug/kg	57.2		1	Α
Aroclor 1248	ND		ug/kg	38.1		1	Α
Aroclor 1254	ND		ug/kg	57.2		1	А
Aroclor 1260	184		ug/kg	38.1		1	В
Aroclor 1262	ND		ug/kg	19.0		1	Α
Aroclor 1268	ND		ug/kg	19.0		1	А
PCBs, Total	184		ug/kg	19.0		1	В

Surrogata	O/ December	Ovelities	Acceptance	0 - 1
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	В
Decachlorobiphenyl	47		30-150	В
2,4,5,6-Tetrachloro-m-xylene	70		30-150	Α
Decachlorobiphenyl	43		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-08

Client ID: AS-4

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:31

Analyst: AWS
Percent Solids: 100%

Date Collected:

Field Prep:

09/03/19 12:05

Date Received: 09/06/19

Not Specified

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls	- Westborough Lab						
Aroclor 1016	ND		ug/kg	51.4		1	А
Aroclor 1221	ND		ug/kg	51.4		1	Α
Aroclor 1232	ND		ug/kg	51.4		1	Α
Aroclor 1242	ND		ug/kg	51.4		1	Α
Aroclor 1248	ND		ug/kg	34.3		1	Α
Aroclor 1254	ND		ug/kg	51.4		1	Α
Aroclor 1260	354		ug/kg	34.3		1	В
Aroclor 1262	ND		ug/kg	17.2		1	Α
Aroclor 1268	ND		ug/kg	17.2		1	Α
PCBs, Total	354		ug/kg	17.2		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	В
Decachlorobiphenyl	61		30-150	В
2,4,5,6-Tetrachloro-m-xylene	87		30-150	Α
Decachlorobiphenyl	56		30-150	Α

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-09

Client ID: AS-DUP-1 Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 09/12/19 02:38

Analyst: WR
Percent Solids: 100%

Date Collected:

09/03/19 00:00

Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 10:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls -	Westborough Lab						
Aroclor 1016	ND		ug/kg	57.0		1	Α
Aroclor 1221	ND		ug/kg	57.0		1	Α
Aroclor 1232	ND		ug/kg	57.0		1	Α
Aroclor 1242	ND		ug/kg	57.0		1	Α
Aroclor 1248	ND		ug/kg	38.0		1	Α
Aroclor 1254	ND		ug/kg	57.0		1	Α
Aroclor 1260	1610		ug/kg	38.0		1	В
Aroclor 1262	ND		ug/kg	19.0		1	Α
Aroclor 1268	ND		ug/kg	19.0		1	Α
PCBs, Total	1610		ug/kg	19.0		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	В
Decachlorobiphenyl	101		30-150	В
2,4,5,6-Tetrachloro-m-xylene	63		30-150	Α
Decachlorobiphenyl	82		30-150	Α



Serial_No:09201912:30

09/04/19 08:30

Lab Number: L1940717

Report Date: 09/20/19

Date Collected:

Cleanup Date:

SAMPLE RESULTS

Lab ID: L1940717-10
Client ID: SB-4 (0-0.5)
Sample Location: LAWRENCE, N

LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 05:07

Analyst: KB Percent Solids: 96% Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

9/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
Aroclor 1016	ND		₫/kg	34.1		1	Α
Aroclor 1221	ND		g/kg	34.1		1	Α
Aroclor 1232	ND		ug _/ .	34.1		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	34.1		1	Α
Aroclor 1248	ND		ng/kg	34.1		1	Α
Aroclor 1254	ND		ug/kg	34.1		1	Α
Aroclor 1260	53.3		ug/kg	34.1		1	В
Aroclor 1262	(D)		ug/kg	34.1		1	Α
Aroclor 1268	ND	•	ug/kg	34.1		1	Α
PCBs, Total	53.		ug/kg	34.1		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	В
Decachlorobiphenyl	98		30-150	В
2,4,5,6-Tetrachloro-m-	72		30-150	Α
Decachlorobipherol	85		30-150	Α



Serial_No:09201912:30

09/04/19 08:50

Not Specified

09/06/19

9/09/19

Lab Number: L1940717

Report Date: 09/20/19

Date Collected:

Date Received:

Cleanup Date:

Field Prep:

SAMPLE RESULTS

Lab ID: L1940717-11 Client ID: SB-4 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Analytical Date:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A

Analyst: KB Percent Solids: 95%

Soil 97,8082A 09/11/19 05:18

KB 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	estborough Lab						
Aroclor 1016	ND		g/kg	33.8		1	Α
Aroclor 1221	ND	_	g/kg	33.8		1	Α
Aroclor 1232	ND		ug/.	33.8		1	А
Aroclor 1242	ND	<u> </u>	u (kg	33.8		1	Α
Aroclor 1248	ND		ng/kg	33.8		1	Α
Aroclor 1254	ND		ug/kg	33.8		1	Α
Aroclor 1260	ND		ug/kg	33.8		1	В
Aroclor 1262	4D		ug/kg	33.8		1	Α
Aroclor 1268	ND	▼	ug/kg	33.8		1	Α
PCBs, Total	NL		ug/kg	33.8		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	В
Decachlorobiphenyl	95		30-150	В
2,4,5,6-Tetrachloro-m-vlene	82		30-150	Α
Decachlorobiphen	87		30-150	Α



Serial_No:09201912:30

09/04/19 08:40

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12 Client ID: SB-4 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil Analytical Method: 97,8082A

Analytical Date: 09/11/19 05:30

Analyst: KB Percent Solids: 93% Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 49/09/19

Cleanup Method EPA 3660B Cleanup Date: 65/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wes	tborough Lab						
Aroclor 1016	ND		g/kg	34.1		1	Α
Aroclor 1221	ND		g/kg	34.1		1	Α
Aroclor 1232	ND		ug/.	34.1		1	Α
Aroclor 1242	ND	•	u (kg	34.1		1	Α
Aroclor 1248	ND		ng/kg	34.1		1	Α
Aroclor 1254	ND		ug/kg	34.1		1	Α
Aroclor 1260	ND		ug/kg	34.1		1	Α
Aroclor 1262	(D		ug/kg	34.1		1	Α
Aroclor 1268	ND	V	ug/kg	34.1		1	Α
PCBs, Total	NL		ug/kg	34.1		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	В
Decachlorobiphenyl	87		30-150	В
2,4,5,6-Tetrachloro-m-	71		30-150	Α
Decachlorobipher	77		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-13 Client ID: SB-4 (3-5) Sample Location:

LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 09:05 Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Matrix: Soil 97,8082A Analytical Method: Analytical Date: 09/11/19 05:42

Analyst: KΒ 87% Percent Solids:

Extraction Method: EPA 3540C **Extraction Date:** 09/07/19 11:55 Cleanup Method: EPA 3665A Cleanup Date: 9/09/19 Cleanup Method EPA 3660B Cleanup Date: 9/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	estborough Lab						
A 1040	ND			07.5			
Aroclor 1016	ND		g/kg	37.5		1	Α
Aroclor 1221	ND		g/kg	37.5		1	Α
Aroclor 1232	ND		ug/.	37.5		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	37.5		1	Α
Aroclor 1248	ND		ng/kg	37.5		1	Α
Aroclor 1254	ND		ug/kg	37.5		1	Α
Aroclor 1260	ND		ug/kg	37.5		1	Α
Aroclor 1262	4D		ug/kg	37.5		1	Α
Aroclor 1268	ND		ug/kg	37.5		1	Α
PCBs, Total	NL		ug/kg	37.5		1	А

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	В
Decachlorobiphenyl	90		30-150	В
2,4,5,6-Tetrachloro-m-	74		30-150	Α
Decachlorobiphe	78		30-150	Α



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

97,8082A Analytical Method: Analytical Date: 09/12/19 00:58

Analyst: **AWS** 75% Percent Solids:

Date Received: 09/06/19

Date Collected:

Cleanup Date:

Field Prep: Not Specified

09/04/19 09:10

Extraction Method: EPA 3540C **Extraction Date:** 09/08/19 17:20 Cleanup Method: EPA 3665A Cleanup Date: 9/10/19 Cleanup Method EPA 3660B

9/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wes	stborough Lab						
				V			
Aroclor 1016	ND		g/kg	104		1	Α
Aroclor 1221	ND		g/kg	104		1	Α
Aroclor 1232	ND		ug/.	104		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	104		1	Α
Aroclor 1248	ND		ng/kg	104		1	Α
Aroclor 1254	ND		ug/kg	104		1	Α
Aroclor 1260	ND		ug/kg	104		1	Α
Aroclor 1262	4D		ug/kg	104		1	Α
Aroclor 1268	ND	▼	ug/kg	104		1	Α
PCBs, Total	NL		ug/kg	104		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	В
Decachlorobiphenyl	50		30-150	В
2,4,5,6-Tetrachloro-m-vlene	62		30-150	Α
Decachlorobipher	27	Q	30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: D L1940717-16

17001426

Client ID: SB-3 (0-0.5) LAWRENCE, MA Sample Location:

TOMBARELLO SITE

Sample Depth:

Project Name:

Project Number:

Matrix: Soil 97,8082A Analytical Method:

Analytical Date: 09/15/19 15:13

Analyst: **AWS** 95% Percent Solids:

Date Collected: 09/04/19 09:20

Date Received: 09/06/19 Field Prep: Not Specified

Extraction Method: EPA 3540C **Extraction Date:** 09/08/19 17:20 Cleanup Method: EPA 3665A Cleanup Date: 9/10/19 Cleanup Method EPA 3660B

Cleanup Date: 9/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls -	Westborough Lab						
				V.		_	
Aroclor 1016	ND		kg/kg	170		5	Α
Aroclor 1221	ND		g/kg	170		5	Α
Aroclor 1232	ND		ug».	170		5	Α
Aroclor 1242	ND	A	u /kg	170		5	Α
Aroclor 1248	ND		ng/kg	170		5	Α
Aroclor 1254	444		ug/kg	170		5	Α
Aroclor 1260	ND		ug/kg	170		5	Α
Aroclor 1262	(D)		ug/kg	170		5	Α
Aroclor 1268	ND	▼	ug/kg	170		5	Α
PCBs, Total	44		ug/kg	170		5	Α

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	В
Decachlorobiphenyl	66		30-150	В
2,4,5,6-Tetrachloro-m-Vlene	50		30-150	Α
Decachlorobipher	55		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17 Client ID: SB-3 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/11/19 23:31

Analyst: AWS Percent Solids: 94%

Date Collected: 09/04/19 09:25
Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C

Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 49/10/19

Cleanup Method EPA 3660B Cleanup Date: 25/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Bipheny	rls - Westborough Lab						
Aroclor 1016	ND		g/kg	35.0		1	Α
Aroclor 1221	ND	_	g/kg	35.0		1	Α
Aroclor 1232	ND		ug/.	35.0		1	Α
Aroclor 1242	ND	<u> </u>	∟ (kg	35.0		1	Α
Aroclor 1248	ND		ng/kg	35.0		1	Α
Aroclor 1254	72.0		ug/kg	35.0		1	В
Aroclor 1260	38.3	IP	ug/kg	35.0		1	В
Aroclor 1262	D		ug/kg	35.0		1	Α
Aroclor 1268	ND		ug/kg	35.0		1	Α
PCBs, Total	11		ug/kg	35.0		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	В
Decachlorobiphenyl	62		30-150	В
2,4,5,6-Tetrachloro-m-vlene	66		30-150	Α
Decachlorobiphered	41		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-18 Client ID: SB-3 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 23:44

Analyst: AWS Percent Solids: 95% Date Collected: 09/04/19 09:30 Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B

9/10/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
Aroclor 1016	ND		J /kg	34.4		1	Α
Aroclor 1221	ND	_	g/kg	34.4		1	А
Aroclor 1232	ND		ug _/ .	34.4		1	Α
Aroclor 1242	ND	A	u (kg	34.4		1	Α
Aroclor 1248	ND		ng/kg	34.4		1	Α
Aroclor 1254	ND		ug/kg	34.4		1	Α
Aroclor 1260	ND		ug/kg	34.4		1	В
Aroclor 1262	,D		ug/kg	34.4		1	Α
Aroclor 1268	ND	▼	ug/kg	34.4		1	Α
PCBs, Total	NL		ug/kg	34.4		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	В
Decachlorobiphenyl	59		30-150	В
2,4,5,6-Tetrachloro-m-vlene	64		30-150	Α
Decachlorobipherol	39		30-150	Α



Serial_No:09201912:30

09/04/19 09:35

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-19 Client ID: SB-3 (3-5)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/11/19 05:54

Analyst: KB Percent Solids: 85% Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 99/09/19

Cleanup Method EPA 3660B Cleanup Date: 65/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - \	Westborough Lab						
Aroclor 1016	ND		⊌/kg	38.6		1	Α
Aroclor 1221	ND		g/kg	38.6		1	Α
Aroclor 1232	ND		ug/.	38.6		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	38.6		1	Α
Aroclor 1248	ND		ng/kg	38.6		1	Α
Aroclor 1254	ND		ug/kg	38.6		1	Α
Aroclor 1260	89.6		ug/kg	38.6		1	В
Aroclor 1262	AD .		ug/kg	38.6		1	Α
Aroclor 1268	ND		ug/kg	38.6		1	Α
PCBs, Total	89.		ug/kg	38.6		1	В

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	В
Decachlorobiphenyl	109		30-150	В
2,4,5,6-Tetrachloro-m-Vlene	79		30-150	Α
Decachlorobipherol	90		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-22

Client ID: SB-2 (0-0.5) LAWRENCE, MA Sample Location:

17001426

TOMBARELLO SITE

Sample Depth:

Project Name:

Project Number:

Matrix: Soil 97,8082A Analytical Method: Analytical Date: 09/11/19 23:56

Analyst: **AWS** 97% Percent Solids:

Date Collected: 09/04/19 10:00 Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C **Extraction Date:** 09/08/19 17:20 Cleanup Method: EPA 3665A Cleanup Date: 9/10/19 Cleanup Method EPA 3660B

9/10/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	stborough Lab						
Aroclor 1016	ND		/kg	33.9		1	Α
Aroclor 1221	ND		g/kg	33.9		<u>'</u> 1	A
Aroclor 1232	ND		ug/i.	33.9		1	Α
Aroclor 1242	ND		u (kg	33.9		1	Α
Aroclor 1248	ND		ng/kg	33.9		1	Α
Aroclor 1254	40.3		ug/kg	33.9		1	Α
Aroclor 1260	ND		ug/kg	33.9		1	В
Aroclor 1262	4D		ug/kg	33.9		1	Α
Aroclor 1268	ND		ug/kg	33.9		1	Α
PCBs, Total	40.		ug/kg	33.9		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	В
Decachlorobiphenyl	56		30-150	В
2,4,5,6-Tetrachloro-m-	65		30-150	Α
Decachlorobipher	35		30-150	Α

Serial_No:09201912:30

09/04/19 10:05

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 Client ID: SB-2 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Sample Depth:

Project Name:

Project Number:

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 - W	estborough Lab						
Aroclor 1016	ND		₫/kg	35.0		1	Α
Aroclor 1221	ND	_	g/kg	35.0		1	А
Aroclor 1232	ND		ug/.	35.0		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	35.0		1	Α
Aroclor 1248	ND		ng/kg	35.0		1	Α
Aroclor 1254	ND		ug/kg	35.0		1	Α
Aroclor 1260	83.0		ug/kg	35.0		1	В
Aroclor 1262	ND N		ug/kg	35.0		1	Α
Aroclor 1268	ND		ug/kg	35.0		1	Α
PCBs, Total	83.		ug/kg	35.0		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	В
Decachlorobiphenyl	54		30-150	В
2,4,5,6-Tetrachloro-m-Vlene	59		30-150	Α
Decachlorobiphered	36		30-150	Α



Serial_No:09201912:30

09/04/19 10:07

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24 Client ID: SB-2 (2-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

97,8082A Analytical Method: Analytical Date: 09/12/19 00:21

Analyst: **AWS** 89% Percent Solids:

Date Received: 09/06/19

Date Collected:

Field Prep: Not Specified

Extraction Method: EPA 3540C **Extraction Date:** 09/08/19 17:20

Cleanup Method: EPA 3665A Cleanup Date: 9/10/19 Cleanup Method EPA 3660B Cleanup Date: 9/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls -	Westborough Lab						
Aroclor 1016	ND		⊌/kg	36.3		1	Α
Aroclor 1221	ND	_	g/kg	36.3		1	Α
Aroclor 1232	ND		ug/.	36.3		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	36.3		1	Α
Aroclor 1248	ND		rrg/kg	36.3		1	Α
Aroclor 1254	ND		ug/kg	36.3		1	Α
Aroclor 1260	ND		ug/kg	36.3		1	В
Aroclor 1262	(D		ug/kg	36.3		1	Α
Aroclor 1268	ND		ug/kg	36.3		1	Α
PCBs, Total	NL		ug/kg	36.3		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	В
Decachlorobiphenyl	57		30-150	В
2,4,5,6-Tetrachloro-m-vlene	57		30-150	Α
Decachlorobipherol	31		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-25 Client ID: SB-2 (3-5)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/12/19 00:46

Analyst: AWS
Percent Solids: 86%

Date Collected: 0

09/04/19 10:15

Date Received: 09/06/19

Field Prep: Not Specified

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: 20/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
Aroclor 1016	ND		₃ /kg	38.0		1	Α
Aroclor 1221	ND		g/kg	38.0		1	Α
Aroclor 1232	ND		ug/.	38.0		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	38.0		1	Α
Aroclor 1248	ND		ng/kg	38.0		1	Α
Aroclor 1254	ND		ug/kg	38.0		1	Α
Aroclor 1260	ND		ug/kg	38.0		1	Α
Aroclor 1262	4D		ug/kg	38.0		1	Α
Aroclor 1268	ND	•	ug/kg	38.0		1	Α
PCBs, Total	NL		ug/kg	38.0		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	В
Decachlorobiphenyl	51		30-150	В
2,4,5,6-Tetrachloro-m-Vlene	60		30-150	Α
Decachlorobipher	33		30-150	Α



Serial_No:09201912:30

09/04/19 11:25

Not Specified

09/06/19

3/10/<u>19</u>

Lab Number: L1940717

Report Date: 09/20/19

Date Collected:

Date Received:

Cleanup Date:

Field Prep:

SAMPLE RESULTS

Lab ID: L1940717-32 D

17001426

TOMBARELLO SITE

Client ID: E-08 (1-2)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

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

Qualifier MDL Result Units **Dilution Factor** Column **Parameter** MCP Polychlorinated Biphenyls - Westborough Lab Aroclor 1016 ND g/kg 748 20 Α Aroclor 1221 ND 748 20 Α g/kg Aroclor 1232 ND 748 --20 Α ug ND Aroclor 1242 748 20 Α Aroclor 1248 782 g/kg 748 20 В ND Aroclor 1254 ug/kg 748 20 Α 6920 Aroclor 1260 748 20 В ug/kg --Aroclor 1262 748 20 Α ug/kg Aroclor 1268 ug/kg 748 --20 Α 20 PCBs, Total 748 --В ug/kg

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В
2,4,5,6-Tetrachloro-m-Vlene	0	Q	30-150	Α
Decachlorobiphe	0	Q	30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-33

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

E-08 (2-3)

Date Collected: 09/04/19 11:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Client ID:

Project Name:

Project Number:

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 Biphen	yls - Westborough Lab						
Aroclor 1016	ND		_J /kg	35.6		1	Α
Aroclor 1221	ND		g/kg	35.6		1	Α
Aroclor 1232	ND		ug/.	35.6		1	Α
Aroclor 1242	ND	<u> </u>	L (kg	35.6		1	Α
Aroclor 1248	ND		ng/kg	35.6		1	Α
Aroclor 1254	ND		ug/kg	35.6		1	А
Aroclor 1260	ND		ug/kg	35.6		1	Α
Aroclor 1262	AD.		ug/kg	35.6		1	Α
Aroclor 1268	ND		ug/kg	35.6		1	Α
PCBs, Total	NL		ug/kg	35.6		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	В
Decachlorobiphenyl	92		30-150	В
2,4,5,6-Tetrachloro-m-vlene	88		30-150	Α
Decachlorobipherol	113		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-40 D

17001426

TOMBARELLO SITE

Client ID: D-07 (1-2)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 16:50

Analyst: WR Percent Solids: 93% Date Collected: 09/04/19 12:12

Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

3/09/19

Cleanup Date:

Qualifier MDL Result Units **Dilution Factor** Column **Parameter** MCP Polychlorinated Biphenyls - Westborough Lab Aroclor 1016 ND g/kg 3460 100 Α Aroclor 1221 ND 3460 100 Α g/kg Aroclor 1232 ND ug 3460 --100 Α ND Aroclor 1242 ⁄kg 3460 100 Α Aroclor 1248 11100 g/kg 3460 100 В 6220 Aroclor 1254 ug/kg 3460 100 Α Aroclor 1260 ND 3460 100 В ug/kg --Aroclor 1262 3460 100 Α ug/kg Aroclor 1268 3460 100 ug/kg --Α PCBs, Total 3460 --100 В ug/kg

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В
2,4,5,6-Tetrachloro-m-Vlene	0	Q	30-150	Α
Decachlorobipher	0	Q	30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-41 Client ID: D-07 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 06:29

Analyst: KB Percent Solids: 92% Date Collected: 09/04/19 12:14
Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

9/09/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
Aroclor 1016	ND		g/kg	35.7		1	Α
Aroclor 1221	ND	_	g/kg	35.7		1	Α
Aroclor 1232	ND		ug/.	35.7		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	35.7		1	Α
Aroclor 1248	ND		ng/kg	35.7		1	Α
Aroclor 1254	102		ug/kg	35.7		1	В
Aroclor 1260	57.7		ug/kg	35.7		1	В
Aroclor 1262	ID I		ug/kg	35.7		1	Α
Aroclor 1268	ND	•	ug/kg	35.7		1	Α
PCBs, Total	160		ug/kg	35.7		1	В

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	В
Decachlorobiphenyl	120		30-150	В
2,4,5,6-Tetrachloro-m-lene	58		30-150	Α
Decachlorobipher	76		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45 Client ID: D-07 (7-9)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 06:41

Analyst: KB Percent Solids: 78% Date Collected: 09/04/19 12:30
Date Received: 09/06/19

Field Prep: Not Specified

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 - Wes	stborough Lab						
				Via			
Aroclor 1016	ND		g/kg	42.4		1 	A
Aroclor 1221	ND		g/kg	42.4		1	Α
Aroclor 1232	ND		ug/.	42.4		1	Α
Aroclor 1242	ND		u (kg	42.4		1	Α
Aroclor 1248	ND		ng/kg	42.4		1	Α
Aroclor 1254	ND		ug/kg	42.4		1	Α
Aroclor 1260	ND		ug/kg	42.4		1	Α
Aroclor 1262	4D		ug/kg	42.4		1	Α
Aroclor 1268	ND	▼	ug/kg	42.4		1	Α
PCBs, Total	NL		ug/kg	42.4		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	В
Decachlorobiphenyl	111		30-150	В
2,4,5,6-Tetrachloro-m-	76		30-150	Α
Decachlorobipher	86		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-51 D

17001426

TOMBARELLO SITE

Client ID: E-06 (1-2)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 16:38

Analyst: WR Percent Solids: 96% Date Collected: 09/04/19 13:22

Cleanup Date:

Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

9/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wes	tborough Lab						
Aroclor 1016	ND		g/kg	337		10	Α
Aroclor 1221	ND		g/kg	337		10	Α
Aroclor 1232	ND		ug _n .	337		10	Α
Aroclor 1242	ND	A	u (kg	337		10	Α
Aroclor 1248	2950		ng/kg	337		10	В
Aroclor 1254	1160		ug/kg	337		10	В
Aroclor 1260	475		ug/kg	337		10	В
Aroclor 1262	(D		ug/kg	337		10	Α
Aroclor 1268	ND	▼	ug/kg	337		10	Α
PCBs, Total	458		ug/kg	337		10	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В
2,4,5,6-Tetrachloro-m-Vlene	0	Q	30-150	Α
Decachlorobiphe	0	Q	30-150	Α



Serial_No:09201912:30

09/04/19 13:26

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-52 Client ID: E-06 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Location. LAWILING

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/11/19 07:05

Analyst: KB Percent Solids: 90% Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 99/09/19

Cleanup Method EPA 3660B Cleanup Date: 65/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	estborough Lab						
A 1040	ND			200			
Aroclor 1016	ND		g/kg	36.2		1	Α
Aroclor 1221	ND		g/kg	36.2		1	Α
Aroclor 1232	ND		ug/.	36.2		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	36.2		1	Α
Aroclor 1248	192		ng/kg	36.2		1	В
Aroclor 1254	ND		ug/kg	36.2		1	Α
Aroclor 1260	54.4		ug/kg	36.2		1	В
Aroclor 1262	4D		ug/kg	36.2		1	Α
Aroclor 1268	ND	•	ug/kg	36.2		1	Α
PCBs, Total	24.		ug/kg	36.2		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	В
Decachlorobiphenyl	163	Q	30-150	В
2,4,5,6-Tetrachloro-m-Vlene	92		30-150	Α
Decachlorobiphe	118		30-150	Α



Serial_No:09201912:30

09/04/19 13:35

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

TOMBARELLO SITE

17001426

Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Sample Depth:

Project Name:

Project Number:

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: \$3/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
Aroclor 1016	ND		g/kg	41.1		1	Α
Aroclor 1221	ND		g/kg	41.1		1	Α
Aroclor 1232	ND		ug».	41.1		1	Α
Aroclor 1242	ND	A	u √kg	41.1		1	Α
Aroclor 1248	ND		ng/kg	41.1		1	В
Aroclor 1254	ND		ug/kg	41.1		1	Α
Aroclor 1260	ND		ug/kg	41.1		1	Α
Aroclor 1262	AD .		ug/kg	41.1		1	Α
Aroclor 1268	ND		ug/kg	41.1		1	Α
PCBs, Total	NL		ug/kg	41.1		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	В
Decachlorobiphenyl	105		30-150	В
2,4,5,6-Tetrachloro-m-	68		30-150	Α
Decachlorobipher	103		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-57 D

17001426

TOMBARELLO SITE

Client ID: E-05 (1-2)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 21:52

Analyst: AWS Percent Solids: 91% Date Collected: 09/04/19 14:10

Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

9/09/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	stborough Lab						
A 1 4040	ND			710		20	
Aroclor 1016	ND		g/kg	712		20	Α
Aroclor 1221	ND		g/kg	712		20	Α
Aroclor 1232	ND		ug _n .	712		20	Α
Aroclor 1242	ND	<u> </u>	u (kg	712		20	Α
Aroclor 1248	7870		ng/kg	712		20	Α
Aroclor 1254	ND		ug/kg	712		20	Α
Aroclor 1260	1400		ug/kg	712		20	В
Aroclor 1262	1D		ug/kg	712		20	Α
Aroclor 1268	ND	▼	ug/kg	712		20	Α
PCBs, Total	927		ug/kg	712		20	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В
2,4,5,6-Tetrachloro-m-Vlene	0	Q	30-150	Α
Decachlorobiphe	0	Q	30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-58 Client ID: E-05 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 03:15

Analyst: WR Percent Solids: 87% Date Collected: 09/04/19 14:12
Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B

9/09/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	estborough Lab						
	NB			07.7		,	
Aroclor 1016	ND		g/kg	37.7		1	Α
Aroclor 1221	ND		g/kg	37.7		1	Α
Aroclor 1232	ND		ug/.	37.7		1	Α
Aroclor 1242	ND	•	u (kg	37.7		1	Α
Aroclor 1248	ND		ng/kg	37.7		1	В
Aroclor 1254	ND		ug/kg	37.7		1	Α
Aroclor 1260	ND		ug/kg	37.7		1	Α
Aroclor 1262	AD .		ug/kg	37.7		1	Α
Aroclor 1268	ND	V	ug/kg	37.7		1	Α
PCBs, Total	NL		ug/kg	37.7		1	В

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	В
Decachlorobiphenyl	90		30-150	В
2,4,5,6-Tetrachloro-m-Vlene	56		30-150	Α
Decachlorobipher	82		30-150	Α



Serial_No:09201912:30

09/04/19 00:00

Not Specified

09/06/19

Lab Number: L1940717

Report Date: 09/20/19

Date Collected:

Date Received:

Field Prep:

SAMPLE RESULTS

Lab ID: L1940717-61 D

17001426

TOMBARELLO SITE

Client ID: SB-DUP-6 Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

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 14:1

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 Biphenyl	s - Westborough Lab						
Aroclor 1016	ND		g/kg	702		20	Α
Aroclor 1221	ND		g/kg	702		20	A
Aroclor 1232	ND		ug/.	702		20	Α
Aroclor 1242	ND	<u> </u>	և √kg	702		20	А
Aroclor 1248	4930		ng/kg	702		20	В
Aroclor 1254	ND		ug/kg	702		20	Α
Aroclor 1260	1070		ug/kg	702		20	В
Aroclor 1262	4D		ug/kg	702		20	Α
Aroclor 1268	ND	•	ug/kg	702		20	Α
PCBs, Total	600		ug/kg	702		20	В

Surrogate	% Recovery	Qualifier	Criteria	Column		
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В		
Decachlorobiphenyl	0	Q	30-150	В		
2,4,5,6-Tetrachloro-m-vlene	0	Q	30-150	Α		
Decachlorobipher	0	Q	30-150	Α		



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-66 D

17001426

TOMBARELLO SITE

Client ID: D-09 (1-2)
Sample Location: LAWRENCE, MA

·

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 22:16

Analyst: AWS
Percent Solids: 88%

Date Collected: 09/04/19 14:50

Date Received: 09/06/19
Field Prep: Not Specified

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: \$2/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls -	Westborough Lab						
Aroclor 1016	ND		او/kg	745		20	Α
Aroclor 1221	ND	_	g/kg	745		20	Α
Aroclor 1232	ND		ug/.	745		20	Α
Aroclor 1242	ND	<u> </u>	u (kg	745		20	Α
Aroclor 1248	ND		ng/kg	745		20	Α
Aroclor 1254	ND		ug/kg	745		20	Α
Aroclor 1260	5650		ug/kg	745		20	В
Aroclor 1262	(D		ug/kg	745		20	Α
Aroclor 1268	ND		ug/kg	745		20	Α
PCBs, Total	565		ug/kg	745		20	В

Surrogate	% Recovery	Qualifier	Criteria	Column		
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В		
Decachlorobiphenyl	0	Q	30-150	В		
2,4,5,6-Tetrachloro-m-vlene	0	Q	30-150	Α		
Decachlorobipher	0	Q	30-150	Α		



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-67 D

17001426

TOMBARELLO SITE

Client ID: D-09 (2-3)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/17/19 16:22

Analyst: AWS Percent Solids: 75%

Date Collected: 09/04/19 14:53 Date Received: 09/06/19

Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B

9/10/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	estborough Lab						
				Y			
Aroclor 1016	ND		g/kg	441		10	Α
Aroclor 1221	ND		g/kg	441		10	Α
Aroclor 1232	ND		ug/.	441		10	Α
Aroclor 1242	ND	<u> </u>	u (kg	441		10	Α
Aroclor 1248	ND		ng/kg	441		10	Α
Aroclor 1254	ND		ug/kg	441		10	Α
Aroclor 1260	ND		ug/kg	441		10	Α
Aroclor 1262	4D		ug/kg	441		10	Α
Aroclor 1268	850	•	ug/kg	441		10	В
PCBs, Total	185		ug/kg	441		10	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В
2,4,5,6-Tetrachloro-m-Vlene	0	Q	30-150	Α
Decachlorobipher	0	Q	30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-74 Client ID: B-07 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil 97,8082A Analytical Method:

Analytical Date: 09/12/19 04:04

Analyst: WR 91% Percent Solids:

Date Collected: 09/04/19 15:27 Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C **Extraction Date:** 09/07/19 14:15 Cleanup Method: EPA 3665A Cleanup Date: 9/10/19 Cleanup Method EPA 3660B

9/10/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - West	borough Lab						
						_	
Aroclor 1016	ND		و/kg	36.0		11	Α
Aroclor 1221	ND		g/kg	36.0		1	Α
Aroclor 1232	ND		ug _n .	36.0		1	Α
Aroclor 1242	ND	A	u (kg	36.0		1	Α
Aroclor 1248	45.5		ng/kg	36.0		1	В
Aroclor 1254	208		ug/kg	36.0		1	В
Aroclor 1260	128		ug/kg	36.0		1	В
Aroclor 1262	AD .		ug/kg	36.0		1	Α
Aroclor 1268	ND	▼	ug/kg	36.0		1	Α
PCBs, Total	38.		ug/kg	36.0		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	В
Decachlorobiphenyl	92		30-150	В
2,4,5,6-Tetrachloro-m-	60		30-150	Α
Decachlorobiphen	81		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-75 Client ID: B-07 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A

Analytical Date: 09/12/19 04:16

Analyst: WR Percent Solids: 83% Date Collected: 09/04/19 15:29

Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B

9/10/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wes	stborough Lab						
Aroclor 1016	ND		_J /kg	38.2		4	Α
Alociol 1016			g/kg			I	A
Aroclor 1221	ND		g/kg	38.2		1	Α
Aroclor 1232	ND		ug/.	38.2		1	Α
Aroclor 1242	ND	•	u (kg	38.2		1	Α
Aroclor 1248	ND		ng/kg	38.2		1	Α
Aroclor 1254	ND		ug/kg	38.2		1	Α
Aroclor 1260	ND		ug/kg	38.2		1	Α
Aroclor 1262	4D		ug/kg	38.2		1	Α
Aroclor 1268	ND	▼	ug/kg	38.2		1	В
PCBs, Total	NL		ug/kg	38.2		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	В
Decachlorobiphenyl	111		30-150	В
2,4,5,6-Tetrachloro-m-vlene	66		30-150	Α
Decachlorobiphent	104		30-150	Α



Serial_No:09201912:30

09/05/19 09:08

Not Specified

09/06/19

Lab Number: L1940717

Report Date: 09/20/19

Date Collected:

Date Received:

Field Prep:

SAMPLE RESULTS

Lab ID: L1940717-86 D

17001426

TOMBARELLO SITE

Client ID: C-08 (1-2)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

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: \$2/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - V	Vestborough Lab						
Aroclor 1016	ND		₫/kg	368		10	Α
Aroclor 1221	ND		g/kg	368		10	Α
Aroclor 1232	ND		ug/.	368		10	Α
Aroclor 1242	ND	A	u (kg	368		10	Α
Aroclor 1248	ND		ng/kg	368		10	Α
Aroclor 1254	ND		ug/kg	368		10	Α
Aroclor 1260	3500		ug/kg	368		10	В
Aroclor 1262	(D		ug/kg	368		10	Α
Aroclor 1268	ND		ug/kg	368		10	А
PCBs, Total	350		ug/kg	368		10	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В
2,4,5,6-Tetrachloro-m-Vlene	0	Q	30-150	Α
Decachlorobiphe	0	Q	30-150	Α



Serial_No:09201912:30

09/05/19 09:11

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-87

Client ID: C-08 (2-3)
Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil Analytical Method: 97,8082A

Analytical Date: 09/12/19 04:53

Analyst: WR Percent Solids: 78% Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 9/10/19

Cleanup Method EPA 3660B Cleanup Date: 05/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	stborough Lab						
Aroclor 1016	ND		g/kg	42.6		1	Α
Aroclor 1221	ND		g/kg	42.6		1	А
Aroclor 1232	ND		ug _/ .	42.6		1	Α
Aroclor 1242	ND	A	u (kg	42.6		1	Α
Aroclor 1248	ND		ng/kg	42.6		1	Α
Aroclor 1254	ND		ug/kg	42.6		1	Α
Aroclor 1260	55.7		ug/kg	42.6		1	В
Aroclor 1262	(D		ug/kg	42.6		1	Α
Aroclor 1268	7.0	▼	ug/kg	42.6		1	В
PCBs, Total	11.		ug/kg	42.6		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	В
Decachlorobiphenyl	153	Q	30-150	В
2,4,5,6-Tetrachloro-m- /lene	64		30-150	Α
Decachlorobiphe	138		30-150	Α



Serial_No:09201912:30

09/05/19 00:00

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-90
Client ID: SB-DUP-4

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/12/19 05:06

Analyst: WR Percent Solids: 77% Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 49/10/19

Cleanup Method EPA 3660B Cleanup Date: 65/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
				V			
Aroclor 1016	ND		y/kg	41.7		1	Α
Aroclor 1221	ND		g/kg	41.7		1	Α
Aroclor 1232	ND		ug/.	41.7		1	Α
Aroclor 1242	ND	•	u (kg	41.7		1	Α
Aroclor 1248	ND		ng/kg	41.7		1	Α
Aroclor 1254	ND		ug/kg	41.7		1	Α
Aroclor 1260	47.3		ug/kg	41.7		1	В
Aroclor 1262	AD .		ug/kg	41.7		1	Α
Aroclor 1268	73.7	V	ug/kg	41.7		1	В
PCBs, Total	10		ug/kg	41.7		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	В
Decachlorobiphenyl	158	Q	30-150	В
2,4,5,6-Tetrachloro-m- /lene	62		30-150	Α
Decachlorobipher	142		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: D L1940717-99

17001426

TOMBARELLO SITE

Client ID: B-09 (1-2) LAWRENCE, MA Sample Location:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil 97,8082A Analytical Method: Analytical Date: 09/17/19 15:27

Analyst: **AWS** 96% Percent Solids:

Date Received: 09/06/19

Date Collected:

Cleanup Date:

Field Prep: Not Specified

09/05/19 09:53

Extraction Method: EPA 3540C **Extraction Date:** 09/07/19 14:15 Cleanup Method: EPA 3665A Cleanup Date: 99/16/19 Cleanup Method EPA 3660B

9/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - \	Westborough Lab						
Aroclor 1016	ND		_J /kg	335		10	Α
Aroclor 1221	ND	_	g/kg	335		10	Α
Aroclor 1232	ND		ug/.	335		10	Α
Aroclor 1242	ND	<u> </u>	u (kg	335		10	Α
Aroclor 1248	2790		ng/kg	335		10	В
Aroclor 1254	4040		ug/kg	335		10	В
Aroclor 1260	3360		ug/kg	335		10	В
Aroclor 1262	4D		ug/kg	335		10	Α
Aroclor 1268	ND	▼	ug/kg	335		10	Α
PCBs, Total	1020		ug/kg	335		10	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В
2,4,5,6-Tetrachloro-m-vlene	0	Q	30-150	Α
Decachlorobipherol	0	Q	30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: D L1940717-100

17001426

TOMBARELLO SITE

Client ID: SB-DUP-3 Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil 97,8082A Analytical Method: Analytical Date: 09/13/19 22:52

Analyst: **AWS** 96% Percent Solids:

Date Received: 09/06/19

Date Collected:

Cleanup Date:

Field Prep: Not Specified

09/05/19 00:00

Extraction Method: EPA 3540C **Extraction Date:** 09/07/19 14:15 Cleanup Method: EPA 3665A Cleanup Date: 9/10/19 Cleanup Method EPA 3660B

9/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wes	tborough Lab						
				V _a ,			
Aroclor 1016	ND		ه/kg	345		10	Α
Aroclor 1221	ND		g/kg	345		10	Α
Aroclor 1232	ND		ug _n .	345		10	Α
Aroclor 1242	ND	A	u (kg	345		10	Α
Aroclor 1248	2920		ng/kg	345		10	Α
Aroclor 1254	4310		ug/kg	345		10	Α
Aroclor 1260	3090		ug/kg	345		10	В
Aroclor 1262	ND N		ug/kg	345		10	Α
Aroclor 1268	ND	•	ug/kg	345		10	Α
PCBs, Total	1030		ug/kg	345		10	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В
2,4,5,6-Tetrachloro-m-	0	Q	30-150	Α
Decachlorobipher	0	Q	30-150	Α

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-102 D

17001426

TOMBARELLO SITE

Client ID: B-09 (2-3)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 23:04

Analyst: AWS Percent Solids: 91%

Date Collected: 09/05/19 09:55

Date Received: 09/06/19
Field Prep: Not Specified

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 Method EPA 3660 Cleanup Date: 63/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
Aroclor 1016	ND		g/kg	180		5	Α
Aroclor 1221	ND		g/kg	180		5	Α
Aroclor 1232	ND		ug/.	180		5	Α
Aroclor 1242	ND	A	u (kg	180		5	Α
Aroclor 1248	640		ng/kg	180		5	Α
Aroclor 1254	841		ug/kg	180		5	Α
Aroclor 1260	1190		ug/kg	180		5	В
Aroclor 1262	AD .		ug/kg	180		5	Α
Aroclor 1268	ND		ug/kg	180		5	Α
PCBs, Total	26)		ug/kg	180		5	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	В
Decachlorobiphenyl	181	Q	30-150	В
2,4,5,6-Tetrachloro-m-	69		30-150	Α
Decachlorobipher	115		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

Date Collected:

Cleanup Date:

SAMPLE RESULTS

Lab ID: L1940717-105 D

17001426

TOMBARELLO SITE

Client ID: B-09 (5-7)-2 Sample Location: LAWRENCE, MA

09 (5-7)-2

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/13/19 23:16

Analyst: AWS Percent Solids: 92% Date Received: 09/06/19 Field Prep: Not Specified

09/05/19 10:02

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B

9/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - V	estborough Lab						
Aroclor 1016	ND		الر الاg	173		5	Α
Aroclor 1221	ND	_	g/kg	173		5	Α
Aroclor 1232	ND		ug».	173		5	Α
Aroclor 1242	ND	A	u /kg	173		5	Α
Aroclor 1248	930		ng/kg	173		5	Α
Aroclor 1254	1880		ug/kg	173		5	Α
Aroclor 1260	1610		ug/kg	173		5	В
Aroclor 1262	ID I		ug/kg	173		5	Α
Aroclor 1268	ND		ug/kg	173		5	Α
PCBs, Total	44≥		ug/kg	173		5	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	В
Decachlorobiphenyl	167	Q	30-150	В
2,4,5,6-Tetrachloro-m-vlene	70		30-150	Α
Decachlorobipherol	109		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-106

Client ID: A-06 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/13/19 23:41

Analyst: AWS

Percent Solids: 97%

Date Collected: 09/05/19 10:33 Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 9/10/19

Cleanup Method EPA 3660B Cleanup Date: 05/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyl	s - Westborough Lab						
Aroclor 1016	ND		/kg	34.1		1	Α
Aroclor 1221	ND	_	g/kg	34.1		1	Α
Aroclor 1232	ND		ug/.	34.1		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	34.1		1	Α
Aroclor 1248	ND		ng/kg	34.1		1	Α
Aroclor 1254	ND		ug/kg	34.1		1	Α
Aroclor 1260	ND		ug/kg	34.1		1	Α
Aroclor 1262	AD.		ug/kg	34.1		1	Α
Aroclor 1268	ND	•	ug/kg	34.1		1	Α
PCBs, Total	NL		ug/kg	34.1		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	В
Decachlorobiphenyl	87		30-150	В
2,4,5,6-Tetrachloro-m-	83		30-150	Α
Decachlorobiphe	70		30-150	Α



Serial_No:09201912:30

09/05/19 10:36

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-107 Client ID: A-06 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A

Analytical Date: 09/13/19 23:29

Analyst: AWS Percent Solids: 97% Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 99/10/19
Cleanup Method: EPA 3660B

Cleanup Date: 0/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
Aroclor 1016	ND		g/kg	33.8		1	Α
Aroclor 1221	ND		g/kg	33.8		1	Α
Aroclor 1232	ND		ug/.	33.8		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	33.8		1	Α
Aroclor 1248	ND		ng/kg	33.8		1	Α
Aroclor 1254	ND		ug/kg	33.8		1	Α
Aroclor 1260	ND		ug/kg	33.8		1	Α
Aroclor 1262	,D		ug/kg	33.8		1	Α
Aroclor 1268	ND		ug/kg	33.8		1	В
PCBs, Total	NL		ug/kg	33.8		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	В
Decachlorobiphenyl	90		30-150	В
2,4,5,6-Tetrachloro-m-Vlene	67		30-150	Α
Decachlorobipher	68		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-110
Client ID: SB-DUP-2

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 00:00

Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

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 - W	estborough Lab						
Aroclor 1016	ND		g/kg	32.3		1	Α
Aroclor 1221	ND		g/kg	32.3		1	Α
Aroclor 1232	ND		ug/.	32.3		1	Α
Aroclor 1242	ND		u (kg	32.3		1	Α
Aroclor 1248	ND		ng/kg	32.3		1	Α
Aroclor 1254	ND		ug/kg	32.3		1	Α
Aroclor 1260	ND		ug/kg	32.3		1	Α
Aroclor 1262	,D		ug/kg	32.3		1	Α
Aroclor 1268	ND	▼	ug/kg	32.3		1	Α
PCBs, Total	NL		ug/kg	32.3		1	А

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	В
Decachlorobiphenyl	103		30-150	В
2,4,5,6-Tetrachloro-m-	73		30-150	Α
Decachlorobipher	83		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: D L1940717-111

17001426

TOMBARELLO SITE

Client ID: B-05 (1-2) LAWRENCE, MA Sample Location:

Sample Depth:

Project Name:

Project Number:

Matrix: Soil 97,8082A Analytical Method: Analytical Date: 09/14/19 00:05

Analyst: **AWS** 92% Percent Solids:

Date Collected: 09/05/19 10:48

Cleanup Date:

Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C **Extraction Date:** 09/07/19 14:15 Cleanup Method: EPA 3665A Cleanup Date: 9/10/19 Cleanup Method EPA 3660B

9/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	stborough Lab						
						_	
Aroclor 1016	ND		g/kg	172		5	Α
Aroclor 1221	ND		g/kg	172		5	Α
Aroclor 1232	ND		ug/.	172		5	Α
Aroclor 1242	ND		u (kg	172		5	Α
Aroclor 1248	1450		ng/kg	172		5	Α
Aroclor 1254	2160		ug/kg	172		5	Α
Aroclor 1260	570		ug/kg	172		5	В
Aroclor 1262	(D		ug/kg	172		5	Α
Aroclor 1268	ND	▼	ug/kg	172		5	Α
PCBs, Total	418		ug/kg	172		5	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	В
Decachlorobiphenyl	106		30-150	В
2,4,5,6-Tetrachloro-m-	72		30-150	Α
Decachlorobipher	79		30-150	Α

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-112

Client ID: B-05 (2-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

97,8082A Analytical Method: Analytical Date: 09/14/19 00:17

Analyst: **AWS** 86% Percent Solids:

Date Received: 09/06/19

Date Collected:

Field Prep: Not Specified

09/05/19 10:51

Extraction Method: EPA 3540C **Extraction Date:** 09/07/19 14:15 Cleanup Method: EPA 3665A Cleanup Date: 9/09/19

Cleanup Method EPA 3660B Cleanup Date: 9/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
	NB			07.0		,	
Aroclor 1016	ND		g/kg	37.9		1	Α
Aroclor 1221	ND		g/kg	37.9		1	Α
Aroclor 1232	ND		ug/.	37.9		1	Α
Aroclor 1242	ND	•	u (kg	37.9		1	Α
Aroclor 1248	ND		ng/kg	37.9		1	Α
Aroclor 1254	ND		ug/kg	37.9		1	В
Aroclor 1260	ND		ug/kg	37.9		1	В
Aroclor 1262	AD .		ug/kg	37.9		1	Α
Aroclor 1268	ND	V	ug/kg	37.9		1	Α
PCBs, Total	NL		ug/kg	37.9		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	В
Decachlorobiphenyl	105		30-150	В
2,4,5,6-Tetrachloro-m-vlene	68		30-150	Α
Decachlorobipher	79		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115 Client ID: B-05 (3-5)-2

LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 10:57

Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Sample Location:

Project Name:

Project Number:

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 - W	estborough Lab						
Aroclor 1016	ND		و/kg	47.1		1	Α
Aroclor 1221	ND		g/kg	47.1		1	Α
Aroclor 1232	ND		ug).	47.1		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	47.1		1	Α
Aroclor 1248	ND		ng/kg	47.1		1	Α
Aroclor 1254	ND		ug/kg	47.1		1	Α
Aroclor 1260	ND		ug/kg	47.1		1	Α
Aroclor 1262	,D		ug/kg	47.1		1	Α
Aroclor 1268	ND	•	ug/kg	47.1		1	Α
PCBs, Total	NL		ug/kg	47.1		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	В
Decachlorobiphenyl	94		30-150	В
2,4,5,6-Tetrachloro-m-vlene	59		30-150	Α
Decachlorobipher	81		30-150	Α



Serial_No:09201912:30

09/05/19 11:12

09/06/19

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-117 D

17001426

TOMBARELLO SITE

Client ID: C-05 (1-2)
Sample Location: LAWRENCE, MA

Sample Depth:

Project Name:

Project Number:

Matrix: Soil Analytical Method: 97,8082A

Analytical Date: 09/17/19 15:15

Analyst: AWS Percent Solids: 87% Field Prep: Not Specified

Date Collected:

Date Received:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 49/16/19

Cleanup Method EPA 3660B Cleanup Date: 95/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - V	Vestborough Lab						
Aroclor 1016	ND		J∕kg	186		5	Α
Aroclor 1221	ND	_	g/kg	186		5	Α
Aroclor 1232	ND		ug/.	186		5	А
Aroclor 1242	ND	<u> </u>	u (kg	186		5	Α
Aroclor 1248	ND		ng/kg	186		5	Α
Aroclor 1254	ND		ug/kg	186		5	Α
Aroclor 1260	2560		ug/kg	186		5	В
Aroclor 1262	(D		ug/kg	186		5	Α
Aroclor 1268	ND	▼ 1	ug/kg	186		5	Α
PCBs, Total	256		ug/kg	186		5	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	В
Decachlorobiphenyl	145		30-150	В
2,4,5,6-Tetrachloro-m-vlene	67		30-150	Α
Decachlorobipherol	120		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-118

Client ID: C-05 (2-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

97,8082A Analytical Method: Analytical Date: 09/16/19 15:23

Analyst: WR 86% Percent Solids:

Date Collected:

Cleanup Date:

09/05/19 11:15

Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C **Extraction Date:** 09/07/19 14:45 Cleanup Method: EPA 3665A Cleanup Date: 99/16/19 Cleanup Method EPA 3660B

9/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - West	borough Lab						
Aroclor 1016	ND		J/kg	38.0		1	Α
Aroclor 1221	ND	_	g/kg	38.0		1	Α
Aroclor 1232	ND		ug/.	38.0		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	38.0		1	Α
Aroclor 1248	ND		ng/kg	38.0		1	Α
Aroclor 1254	ND		ug/kg	38.0		1	Α
Aroclor 1260	57.6		ug/kg	38.0		1	В
Aroclor 1262	4D		ug/kg	38.0		1	Α
Aroclor 1268	ND		ug/kg	38.0		1	Α
PCBs, Total	57.		ug/kg	38.0		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	В
Decachlorobiphenyl	107		30-150	В
2,4,5,6-Tetrachloro-m-vlene	63		30-150	Α
Decachlorobipher	91		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-121

Client ID: C-06 (1-2)
Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 15:35

Analyst: WR Percent Solids: 95% Date Collected: 09/05/19 11:32

Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B

9/16/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - West	tborough Lab						
Aroclor 1016	ND		g/kg	34.1		1	Α
Aroclor 1221	ND	_	g/kg	34.1		1	Α
Aroclor 1232	ND		ug/.	34.1		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	34.1		1	Α
Aroclor 1248	ND		rrg/kg	34.1		1	Α
Aroclor 1254	ND		ug/kg	34.1		1	Α
Aroclor 1260	ND		ug/kg	34.1		1	В
Aroclor 1262	ND ND		ug/kg	34.1		1	Α
Aroclor 1268	ND		ug/kg	34.1		1	Α
PCBs, Total	NL		ug/kg	34.1		1	В

		Acceptance		
% Recovery	Qualifier	Criteria	Column	
60		30-150	В	
118		30-150	В	
60		30-150	Α	
88		30-150	Α	
	60 118 60	60 118 60	% Recovery Qualifier Criteria 60 30-150 118 30-150 60 30-150	



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-122

Client ID: C-06 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/16/19 15:48

Analyst: WR Percent Solids: 91% Date Collected: 09/05/19 11:34 Date Received: 09/06/19

Field Prep: Not Specified

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 Method EPA 366 Cleanup Date: 65/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	estborough Lab						
Aroclor 1016	ND			34.7		1	Α
			g/kg			•	
Aroclor 1221	ND		g/kg	34.7		1	Α
Aroclor 1232	ND		ug/.	34.7		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	34.7		1	Α
Aroclor 1248	ND		ng/kg	34.7		1	Α
Aroclor 1254	ND		ug/kg	34.7		1	Α
Aroclor 1260	ND		ug/kg	34.7		1	Α
Aroclor 1262	4D		ug/kg	34.7		1	Α
Aroclor 1268	ND		ug/kg	34.7		1	Α
PCBs, Total	NL		ug/kg	34.7		1	Α

Cumo meta	ov. 5		Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	В
Decachlorobiphenyl	101		30-150	В
2,4,5,6-Tetrachloro-m-Vlene	59		30-150	Α
Decachlorobiphered	89		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-125

Client ID: A-05 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/16/19 16:00

Analyst: WR Percent Solids: 93% Date Collected: 09/05/19 12:12 Date Received: 09/06/19

Date Received: 09/06/19
Field Prep: Not Specified

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: \$3/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
Aroclor 1016	ND		g/kg	35.2		1	Α
Aroclor 1221	ND		g/kg	35.2		1	Α
Aroclor 1232	ND		ug/.	35.2		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	35.2		1	Α
Aroclor 1248	ND		ng/kg	35.2		1	Α
Aroclor 1254	ND		ug/kg	35.2		1	Α
Aroclor 1260	ND		ug/kg	35.2		1	Α
Aroclor 1262	,D		ug/kg	35.2		1	Α
Aroclor 1268	ND		ug/kg	35.2		1	Α
PCBs, Total	NL		ug/kg	35.2		1	А

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	В
Decachlorobiphenyl	113		30-150	В
2,4,5,6-Tetrachloro-m-vlene	65		30-150	Α
Decachlorobipherol	104		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-126

Client ID: A-05 (2-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

97,8082A Analytical Method: Analytical Date: 09/16/19 16:12

Analyst: WR 94% Percent Solids:

Date Collected:

Cleanup Date:

09/05/19 12:14

9/16/19

Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C **Extraction Date:** 09/07/19 14:45 Cleanup Method: EPA 3665A Cleanup Date: 99/16/19 Cleanup Method EPA 3660B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wes	stborough Lab						
Aroclor 1016	ND		y/kg	33.9		1	Α
Aroclor 1221	ND	_	g/kg	33.9		1	Α
Aroclor 1232	ND		ug».	33.9		1	Α
Aroclor 1242	ND	<u> </u>	u /kg	33.9		1	Α
Aroclor 1248	ND		ng/kg	33.9		1	Α
Aroclor 1254	ND		ug/kg	33.9		1	Α
Aroclor 1260	ND		ug/kg	33.9		1	Α
Aroclor 1262	ID I		ug/kg	33.9		1	Α
Aroclor 1268	ND		ug/kg	33.9		1	Α
PCBs, Total	NL		ug/kg	33.9		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	В
Decachlorobiphenyl	158	Q	30-150	В
2,4,5,6-Tetrachloro-m-Vlene	66		30-150	Α
Decachlorobipher	137		30-150	Α



Serial_No:09201912:30

09/05/19 13:05

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-129

Client ID: E-02 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/16/19 16:24

Analyst: WR Percent Solids: 94% Date Received: 09/06/19
Field Prep: Not Specified

Date Collected:

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 49/16/19

Cleanup Method EPA 3660B Cleanup Date: 25/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wes	stborough Lab						
Aroclor 1016	ND		√/kg	33.8		1	Α
Aroclor 1221	ND		g/kg	33.8		1	A
Aroclor 1232	ND		ug _/ .	33.8		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	33.8		1	Α
Aroclor 1248	ND		ng/kg	33.8		1	Α
Aroclor 1254	ND		ug/kg	33.8		1	Α
Aroclor 1260	127		ug/kg	33.8		1	В
Aroclor 1262	AD .		ug/kg	33.8		1	Α
Aroclor 1268	ND	V	ug/kg	33.8		1	Α
PCBs, Total	12.		ug/kg	33.8		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	В
Decachlorobiphenyl	117		30-150	В
2,4,5,6-Tetrachloro-m-t/lene	56		30-150	Α
Decachlorobipherol	80		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-130 Client ID: E-02 (2-3)

Client ID: E-02 (2-3)
Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/16/19 16:37

Analyst: WR Percent Solids: 95% Date Collected: 09/05/19 13:08
Date Received: 09/06/19

Field Prep: Not Specified

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 99/16/19

Cleanup Method EPA 3660B Cleanup Date: 65/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - W	estborough Lab						
Aroclor 1016	ND		g/kg	33.6		1	Α
Aroclor 1221	ND		g/kg	33.6		1	Α
Aroclor 1232	ND		ug/.	33.6		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	33.6		1	Α
Aroclor 1248	ND		ng/kg	33.6		1	Α
Aroclor 1254	ND		ug/kg	33.6		1	Α
Aroclor 1260	ND		ug/kg	33.6		1	Α
Aroclor 1262	ND N		ug/kg	33.6		1	Α
Aroclor 1268	ND		ug/kg	33.6		1	Α
PCBs, Total	NL		ug/kg	33.6		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	В
Decachlorobiphenyl	105		30-150	В
2,4,5,6-Tetrachloro-m-vlene	60		30-150	Α
Decachlorobipherol	89		30-150	Α



Serial_No:09201912:30

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

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:49

Analyst: WR Percent Solids: 95% Date Collected: 09/05/19 13:33

Date Received: 09/06/19
Field Prep: Not Specified

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 Method EPA 3660 Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Bipheny	/ls - Westborough Lab						
Aroclor 1016	ND		g/kg	34.2		1	Α
Aroclor 1221	ND	_	g/kg	34.2		1	Α
Aroclor 1232	ND		ug/.	34.2		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	34.2		1	Α
Aroclor 1248	ND		ng/kg	34.2		1	А
Aroclor 1254	ND		ug/kg	34.2		1	А
Aroclor 1260	ND		ug/kg	34.2		1	В
Aroclor 1262	ID.		ug/kg	34.2		1	А
Aroclor 1268	ND		ug/kg	34.2		1	Α
PCBs, Total	NL		ug/kg	34.2		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	В
Decachlorobiphenyl	88		30-150	В
2,4,5,6-Tetrachloro-m-	60		30-150	Α
Decachlorobiphe	78		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138

Client ID: SB-1 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

Analytical Method: 97,8082A Analytical Date: 09/16/19 18:09

Analyst: WR Percent Solids: 92% Date Collected: 09/05/19 13:36 Date Received: 09/06/19

Date Received: 09/06/19
Field Prep: Not Specified

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: 69/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls -	Westborough Lab						
Annalog 404C	ND			20.0		4	^
Aroclor 1016	ND		g/kg	36.2		1	Α
Aroclor 1221	ND		g/kg	36.2		1	Α
Aroclor 1232	ND		ug/.	36.2		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	36.2		1	Α
Aroclor 1248	ND		ng/kg	36.2		1	Α
Aroclor 1254	ND		ug/kg	36.2		1	Α
Aroclor 1260	83.8		ug/kg	36.2		1	В
Aroclor 1262	(D		ug/kg	36.2		1	Α
Aroclor 1268	ND		ug/kg	36.2		1	Α
PCBs, Total	83.		ug/kg	36.2		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	В
Decachlorobiphenyl	104		30-150	В
2,4,5,6-Tetrachloro-m-vlene	61		30-150	Α
Decachlorobipherol	94		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139

Client ID: SB-1 (2-3)

LAWRENCE, MA Sample Location:

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil

97,8082A Analytical Method: Analytical Date: 09/16/19 18:21

Analyst: WR 90% Percent Solids:

Date Received: 09/06/19

Date Collected:

Field Prep: Not Specified

09/05/19 13:39

Extraction Method: EPA 3540C

Extraction Date: 09/07/19 14:45 Cleanup Method: EPA 3665A Cleanup Date: 99/16/19

Cleanup Method EPA 3660B Cleanup Date: 9/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls	- Westborough Lab						
Aroclor 1016	ND		و/kg	36.8		1	Α
Aroclor 1221	ND		g/kg	36.8		1	Α
Aroclor 1232	ND		ug _n .	36.8		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	36.8		1	Α
Aroclor 1248	ND		ng/kg	36.8		1	Α
Aroclor 1254	ND		ug/kg	36.8		1	Α
Aroclor 1260	51.4		ug/kg	36.8		1	В
Aroclor 1262	AD .		ug/kg	36.8		1	Α
Aroclor 1268	ND	•	ug/kg	36.8		1	Α
PCBs, Total	51.		ug/kg	36.8		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	В
Decachlorobiphenyl	113		30-150	В
2,4,5,6-Tetrachloro-m-vlene	61		30-150	Α
Decachlorobipherol	99		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140

Client ID: SB-DUP-1 Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Sample Depth:

Project Name:

Project Number:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 18:33

Analyst: WR Percent Solids: 95% Date Collected: 09/05/19 00:00

Date Received: 09/06/19
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B

9/16/19

Cleanup Date:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - We	estborough Lab						
Aroclor 1016	ND		J/kg	33.1		1	Α
Aroclor 1221	ND	_	g/kg	33.1		1	А
Aroclor 1232	ND		ug _n .	33.1		1	Α
Aroclor 1242	ND	<u> </u>	u (kg	33.1		1	Α
Aroclor 1248	ND		ng/kg	33.1		1	Α
Aroclor 1254	ND		ug/kg	33.1		1	Α
Aroclor 1260	88.0		ug/kg	33.1		1	В
Aroclor 1262	4D		ug/kg	33.1		1	Α
Aroclor 1268	ND	•	ug/kg	33.1		1	Α
PCBs, Total	88.		ug/kg	33.1		1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	В
Decachlorobiphenyl	108		30-150	В
2,4,5,6-Tetrachloro-m-vlene	63		30-150	Α
Decachlorobipher	93		30-150	Α



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-141 Client ID: SB-1 (3-5)

Client ID: SB-1 (3-5)
Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 13:42
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

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: 23/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Wes	tborough Lab						
Aroclor 1016	ND		او/kg	41.0		1	А
Aroclor 1221	ND	_	g/kg	41.0		1	Α
Aroclor 1232	ND		ug/.	41.0		1	А
Aroclor 1242	ND	<u> </u>	u (kg	41.0		1	Α
Aroclor 1248	ND		ng/kg	41.0		1	Α
Aroclor 1254	ND		ug/kg	41.0		1	Α
Aroclor 1260	ND		ug/kg	41.0		1	Α
Aroclor 1262	4D		ug/kg	41.0		1	Α
Aroclor 1268	ND	•	ug/kg	41.0		1	Α
PCBs, Total	NL		ug/kg	41.0		1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	В
Decachlorobiphenyl	90		30-150	В
2,4,5,6-Tetrachloro-m-Vlene	55		30-150	Α
Decachlorobipher	74		30-150	Α



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		N.JL	Column
MCP Polychlorinated Biphenyls	- Westborough	Lab for sa	mple(s):	01-09 Latch	WG1281	465-1
Aroclor 1016	ND		ug/kg	J.(3		В
Aroclor 1221	ND		_g /kg	56.3		В
Aroclor 1232	ND		ıg/kg	56.3		В
Aroclor 1242	ND		u ′kg	56.3		В
Aroclor 1248	ND		ıg/kg	37.5		В
Aroclor 1254	ND		ug, kg	56.3		В
Aroclor 1260	ND		ug/kg	37.5		В
Aroclor 1262	ı		ug/kg	18.8		В
Aroclor 1268	\D		ug/kg	18.8		В
PCBs, Total			ug/kg	18.8		В

		Acceptance			
Surrogate	%Recovery Qualifie	r Criteria	Column		
0.45074		00.450			
2,4,5,6-Tetrachloro-m-xylene	77	30-150	В		
Decachlorobiphen	85	30-150	В		
2,4,5,6-Tetrach pro-m-xyle e	69	30-150	Α		
Decachlorobiph hyl	71	30-150	Α		



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		N.JL	Column
MCP Polychlorinated Biphe WG1281488-1	nyls - Westborough	Lab for sa	mple(s):	10-13,15,33,4	41,45,51-52	Patch:
Aroclor 1016	ND		Un	32.8		Α
Aroclor 1221	ND		ug/kg	32.8		Α
Aroclor 1232	ND	<u> </u>	g/kg	32.8		А
Aroclor 1242	ND		ug/kg	32.8		Α
Aroclor 1248	ND	•	u kg	32.8		Α
Aroclor 1254	ND		g/kg	32.8		Α
Aroclor 1260	N		ug/kg	32.8		Α
Aroclor 1262	ND		ug/kg	32.8		Α
Aroclor 1268			ug/kg	32.8		Α
PCBs, Total	ND	▼	ug/kg	32.8		Α

		Acceptance			
Surrogate	%Recovery Qualifi	ier Criteria	Column		
2,4,5,6-Tetrachloro-m-xylene	85	30-150	В		
Decachlorobiph	96	30-150	В		
2,4,5,6-Tetrach pro-m-xyler	85	30-150	Α		
Decachloro toher	86	30-150	Α		



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: 97,8082A 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		N.JL	Column
MCP Polychlorinated Biphenyls - \ 100,102,105-107,110-112 Batch			mple(s):	56-58,61,56-6	74-75,86-	87,90,99-
Aroclor 1016	ND		Uc	32.2		А
Aroclor 1221	ND		ug/kg	32.2		Α
Aroclor 1232	ND	•	g/kg	32.2		Α
Aroclor 1242	ND		ug/kg	32.2		Α
Aroclor 1248	ND		u, 'kg	32.2		Α
Aroclor 1254	ND		g/kg	32.2		Α
Aroclor 1260	N		ug/kg	32.2		Α
Aroclor 1262	ND		ug/kg	32.2		Α
Aroclor 1268			ug/kg	32.2		Α
PCBs, Total	ΝD	▼	ug/kg	32.2		А

		Acceptance	ceptance	
Surrogate	%Recovery Qualifie	r Criteria	Column	
			_	
2,4,5,6-Tetrachloro-m-xylene	78	30-150	В	
Decachlorobiphoryl	93	30-150	В	
2,4,5,6-Tetrach pro-m-xyler	74	30-150	Α	
Decachloro, toher	81	30-150	Α	



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 Date: 09/16/19

Parameter		Result	Qualifier	Units		N.JL	Column
MCP Polychlo 130,137-141	Biphenyls - W WG128153		n Lab for sa	mple(s):	115,117- 18,1	1-122,125	5-126,129-
Aroclor 1016		ND		Un	32.5		А
Aroclor 1221		ND		ıg/kg	32.5		Α
Aroclor 1232		ND	<u> </u>	n/kg	32.5		Α
Aroclor 1242		ND		ug/ks	32.5		А
Aroclor 1248		ND		u, 'kg	32.5		Α
Aroclor 1254		ND		g/kg	32.5		А
Aroclor 1260		N		ug/kg	32.5		Α
Aroclor 1262		ND		ug/kg	32.5		Α
Aroclor 1268				ug/kg	32.5		Α
PCBs, Total		.ND	▼	ug/kg	32.5		А

		Acc	ceptance	€
Surrogate	%Recovery	Qualifier (Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63	3	30-150	В
Decachlorobiph riyl	88	3	30-150	В
2,4,5,6-Tetrach pro-m-xyler	61	3	30-150	Α
Decachloro, tohel	74	3	30-150	Α



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 Date: 09/09/19
Cleanup Date: 09/09/19

/esthorougl					
ootboroug.	n Lab for sa	mple(s):	15-18,22 25,37	Batch:	
ND		Uc	32.7		Α
ND		ıg/kg	32.7		А
ND	•	g/kg	32.7		Α
ND		ug/ks	32.7		Α
ND		u, 'kg	32.7		Α
ND		g/kg	32.7		Α
N		ug/kg	32.7		Α
ND		ug/kg	32.7		Α
		ug/kg	32.7		Α
.ND	▼	ug/kg	32.7		Α
	ND N	ND N	ND uc 0 ND ug/kg ND ug/kg	ND uc. 5 32.7 ND ug/kg 32.7	ND uc 3 32.7 ND 4g/kg 32.7 ND 1g/kg 32.7 ND 4g/kg 32.7

		Acceptan	ce
Surrogate	%Recovery	Qualifier Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68	30-150	В
Decachlorobiph nyl	82	30-150	В
2,4,5,6-Tetrach vro-m-xyler	67	30-150	Α
Decachloro, tohel	62	30-150	Α



Project Name: TOMBARELLO SITE

Project Number:

17001426

Lab Number:

L1940717

09/20/19

Report Date:

Pa	rameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	₽ <i>P</i>	Qual	RPD Limits	Column
MC	P Polychlorinated Biphenyls - Westboroug	h Lab Associat	ed sample(s):	01-09 Batch:	WG12814	65-2 WG1 ₂ (46	5-			
	Aroclor 1016	73		82		4 140	12		30	В
	Aroclor 1260	67		75		40- 10	11		30	В

	LCS	LCSD	Acceptance	e
Surrogate	% Recovery	Qual %Recovery	Qual Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67	74	30-150	В
Decachlorobiphenyl	76	83	30-150	В
2,4,5,6-Tetrachloro-m-xylene	63	69	30-150	Α
Decachlorobiphenyl	63	69	30-150	Α



Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number:

L1940717

Report Date:

09/20/19

	LCS		LCSD		%Recovery_			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	PP)	Qual	Limits	Column
MCP Polychlorinated Biphenyls - We	stborough Lab Associate	d sample(s):	10-13,19,33,40)-41,45,51-52	Batch: 6	128 488-2	WG1281488-3		
Aroclor 1016	75		76		4 140	1		30	А
Aroclor 1260	63		63		40- 10	0		30	Α

	LCS	LCSD	A	cceptance		
Surrogate	% Recovery	y Qual %Recovery	Qual	Criteria	Column	
2,4,5,6-Tetrachloro-m-xylene	82	84		30-150	В	
Decachlorobiphenyl	87	82		30-150	В	
2,4,5,6-Tetrachloro-m-xylene	81	83		30-150	Α	
Decachlorobiphenyl	80	74		30-150	Α	



Project Name: TOMBARELLO SITE

Lab Number:

L1940717

Project Number: 17001426 Report Date:

09/20/19

<u>Parameter</u>	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	PP	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westbord WG1281518-3	ough Lab Associate	ed sample(s):	56-58,61,66-67	7,74-75,86-8	87,90,99-100, 72,1	0 -107,110-11	2 Batch:	WG1281	518-2
Aroclor 1016	78		80		40	3		30	А
Aroclor 1260	71		72		40-100	1		30	Α

Surrogate	LCS %h. co ery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		77		30-150	В
Decachlorobiphenyl	88		88		30-150	В
2,4,5,6-Tetrachloro-m-xylene	74		76		30-150	Α
Decachlorobiphenyl	76		77		30-150	Α



Project Name: TOMBARELLO SITE

17001426

Project Number:

Lab Number:

L1940717

Report Date:

09/20/19

Paramet	er	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	₽ <i>P</i>	Qual	RPD Limits	Column
MCP Pol	ychlorinated Biphenyls - Westboroug	h Lab Associat	ed sample(s):	115,117-118,1	21-122,125-	-126,129-13U _{, 3} 7-	14 Batch:	WG1281533	3-2 WG1	281533-3
Aroclo	1016	72		73		40	1		30	А
Aroclo	1260	72		75		40-1 0	4		30	Α

Surrogate	LCS %h. co ery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	В
Decachlorobiphenyl	95		90		30-150	В
2,4,5,6-Tetrachloro-m-xylene	68		67		30-150	Α
Decachlorobiphenyl	77		78		30-150	Α



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE

BARELLO SITE

Lab Number:

L1940717

Project Number: 17001426

Report Date:

09/20/19

Parameter	LCS %Recoverv	Qual	LCSD %Recovery	Qual	%Recovery Limits	DD.	Qual	RPD Limits	Column
			,				Quui	Liiiito	Oolalliii
MCP Polychlorinated Biphenyls - West	borough Lab Associate	d sample(s):	15-18,22-25,32	Batch:	WG1281633 V	VG 281633-3			
Aroclor 1016	84		89		4 140	6		30	А
Aroclor 1260	60		55		40- 10	9		30	Α

	LCS	LCSD	Acceptance
Surrogate	% Recovery Qual	%Recovery Qual	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







WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: Report Date:

L1940717 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%

Dilution Date Date

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals	s - Mansfiel	d Lab									
Arsenic, Total	3.39		mg/kg	0.410		1	09/15/19 17:4	0 09/16/19 22:26	EPA \$ 50"	97,6010D	MC
Barium, Total	62.6		mg/kg	0.410		1	09/15/19 17:4	0 09/16/19 22 16	EPA 2050B	97,6010D	МС
Cadmium, Total	0.672		mg/kg	0.410		1	09/15/19 17:4	0/3/16/19 20:26	A 3050B	97,6010D	МС
Chromium, Total	47.3		mg/kg	0.410		1	09/15/19 17:4	0 09/ (19 22: 6	EPA 3050B	97,6010D	МС
Lead, Total	12.6		mg/kg	2.05		1	09/15/19 7:4	2/16/1、22:26	EPA 3050B	97,6010D	МС
Mercury, Total	ND		mg/kg	0.080		1	00/19/19 06	09/16/19 17:10	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.05		1	09/15/19 (7:4	09/16/19 22:26	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.410			9/15/19 7:4	0 09/16/19 22:26	EPA 3050B	97,6010D	МС
Zinc, Total	30.1		mg/kg	2.05		1	09/15/19 17:4	0 09/16/19 22:26	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

17001426

Lab Number: **Report Date:**

L1940717

09/20/19

SAMPLE RESULTS

Date Collected:

09/04/19 08:40

Lab ID: L1940717-12 Client ID:

SB-4 (2-3)

LAWRENCE, MA

Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Sample Location:

Project Number:

Matrix:

Soil

Percent Solids:	93%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MCP Total Metals -	Mansfield	d Lab									
Arsenic, Total	4.72		mg/kg	0.429		1	09/15/19 17:40	0 09/16/19 22:48	EPA \$ 150"	97,6010D	MC
Barium, Total	34.3		mg/kg	0.429		1	09/15/19 17:40	0 09/16/19 22 18	EPA 2050B	97,6010D	MC
Cadmium, Total	0.939		mg/kg	0.429		1	09/15/19 17:40	0/3/16/19 22:48	A 3050B	97,6010D	МС
Chromium, Total	11.3		mg/kg	0.429		1	09/15/19 17:40	0 09/ 19 22: 8	EPA 3050B	97,6010D	МС
Lead, Total	99.1		mg/kg	2.14		1	09/15/19 7:40	2/16/1、22:48	EPA 3050B	97,6010D	МС
Mercury, Total	ND		mg/kg	0.081		1	00/12/19 06	09/16/19 17:14	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.14		1	09/15/19 7:4	09/16/19 22:48	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.429			9/15/19 7:40	0 09/16/19 22:48	EPA 3050B	97,6010D	МС
Zinc, Total	41.7		mg/kg	2.14		1	09/15/19 17:40	0 09/16/19 22:48	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number:

L1940717 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15

Client ID: SB-4 (5-7)-2 LAWRENCE, MA Sample Location:

Date Collected:

Report Date:

09/04/19 09:10

Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

75%

Percent Solids:	75%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MCP Total Metals	- Mansfield	d Lab									
Arsenic, Total	9.82		mg/kg	0.527		1	09/15/19 17:40	09/16/19 23:01	EPA . '50"	97,6010D	MC
Barium, Total	170		mg/kg	0.527		1	09/15/19 17:40	09/16/19 23 1	EPA 2050B	97,6010D	МС
Cadmium, Total	0.733		mg/kg	0.527		1	09/15/19 17:40	///16/1/ 20:01	A 3050B	97,6010D	МС
Chromium, Total	11.9		mg/kg	0.527		1	09/15/19 17:40	09/ (19 23) 1	EPA 3050B	97,6010D	МС
Lead, Total	96.0		mg/kg	2.64		1	09/15/19 7:40	2/16/1、23:01	EPA 3050B	97,6010D	МС
Mercury, Total	ND		mg/kg	0.097		1		09/16/19 17:25	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.64		1	09/15/19 (7:4	09/16/19 23:01	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.527			2/15/19 7:40	09/16/19 23:01	EPA 3050B	97,6010D	МС
Zinc, Total	109		mg/kg	2.64		1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426

Report Date:

L1940717 09/20/19

SAMPLE RESULTS

Date Collected:

Lab Number:

09/04/19 09:25

Client ID: SB-3 (1-2)

Date Received:

09/06/19

Sample Location: LAWRENCE, MA Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

L1940717-17

Percent Solids. Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
											-
MCP Total Metals	- Mansfiel	d Lab									
Arsenic, Total	4.74		mg/kg	0.412		1	09/15/19 17:4	0 09/16/19 23:05	EPA . '50'	97,6010D	MC
Barium, Total	26.4		mg/kg	0.412		1	09/15/19 17:4	0 09/16/19 23 5	EPA 2050B	97,6010D	MC
Cadmium, Total	0.461		mg/kg	0.412		1	09/15/19 17:4	0/3/16/1	A 3050B	97,6010D	МС
Chromium, Total	17.8		mg/kg	0.412		1	09/15/19 17:4	0 09/ (19 23) 5	EPA 3050B	97,6010D	MC
Lead, Total	48.7		mg/kg	2.06		1	09/15/19 7:4	∪ ² /16/1⊾ ∠3:05	EPA 3050B	97,6010D	МС
Mercury, Total	ND		mg/kg	0.078		1	00/19/19 06	09/16/19 17:27	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.06		1	09/15/19 (7:4	09/16/19 23:05	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.412			9/15/19 7:4	0 09/16/19 23:05	EPA 3050B	97,6010D	МС
Zinc, Total	51.4		mg/kg	2.06		1	09/15/19 17:4	0 09/16/19 23:05	EPA 3050B	97,6010D	MC
					_						



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

17001426

Lab Number: **Report Date:**

L1940717

09/20/19

SAMPLE RESULTS

Date Collected:

09/04/19 09:30

Lab ID: L1940717-18 Client ID: SB-3 (2-3)

LAWRENCE, MA

Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Sample Location:

Project Number:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals	- Mansfiel	d Lab									
Arsenic, Total	4.35		mg/kg	0.404		1	09/15/19 17:40	09/16/19 23:09	EPA \$ 50"	97,6010D	MC
Barium, Total	27.5		mg/kg	0.404		1	09/15/19 17:40	0 09/16/19 23 9	EPA 2050B	97,6010D	МС
Cadmium, Total	0.565		mg/kg	0.404		1	09/15/19 17:40	0/3/16/1/20:09	A 3050B	97,6010D	МС
Chromium, Total	9.98		mg/kg	0.404		1	09/15/19 17:40	0 09/ 19 23/ 9	EPA 3050B	97,6010D	MC
Lead, Total	108		mg/kg	2.02		1	09/15/19 7:40	2/16/1、∠3:09	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.079		1	00/12/19 06	09/16/19 17:29	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.02		1	09/15/19 7:4	09/16/19 23:09	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.404			2/15/19 7:40	0 09/16/19 23:09	EPA 3050B	97,6010D	MC
Zinc, Total	46.6		mg/kg	2.02		1	09/15/19 17:40	0 09/16/19 23:09	EPA 3050B	97,6010D	MC
ZITIC, TOTAL	40.0		mg/kg	2.02		1	19/15/19 17:40	09/10/19 23.09	EFA 3030B	37,0010D	



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number:

L1940717

Report Date:

Date Collected:

Date Received:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21 Client ID: SB-3 (5-7)-2

LAWRENCE, MA Field Prep: 09/04/19 09:40

09/06/19 Not Specified

Sample Depth:

Sample Location:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals	s - Mansfiel	d Lab									
Arsenic, Total	6.04		mg/kg	0.459		1	09/15/19 17:4	0 09/16/19 23:13	EPA 350"	97,6010D	МС
Barium, Total	51.3		mg/kg	0.459		1	09/15/19 17:4	0 09/16/19 25 3	EPA 2050B	97,6010D	МС
Cadmium, Total	0.826		mg/kg	0.459		1	09/15/19 17:4	0//16/1/20:13	A 3050B	97,6010D	МС
Chromium, Total	25.0		mg/kg	0.459		1	09/15/19 17:4	0 09 (19 23 3	EPA 3050B	97,6010D	МС
Lead, Total	153		mg/kg	2.29		1	09/15/19 7:4	2/16/1⊾ ∠3:13	EPA 3050B	97,6010D	МС
Mercury, Total	0.160		mg/kg	0.090		1	00/19/19 06	09/16/19 17:31	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.29		1	09/15/19 (7:4	09/16/19 23:13	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.459			9/15/19 7:4	0 09/16/19 23:13	EPA 3050B	97,6010D	МС
Zinc, Total	74.4		mg/kg	2.29		1	09/15/19 17:4	0 09/16/19 23:13	EPA 3050B	97,6010D	МС



L1940717

09/04/19 10:05

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

Report Date: 09/20/19

Date Collected:

SAMPLE RESULTS

Lab ID: L1940717-23

Client ID: SB-2 (1-2) LAWRENCE, MA Sample Location:

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	Prep Method	Analytical Method	Analyst
MCP Total Metals	Manafial	ما ا ماء									
MCP Total Metals	- Mansher	u Lab									
Arsenic, Total	9.19		mg/kg	0.436		1	09/15/19 17:4	0 09/16/19 21:11	EPA 3 '50'	97,6010D	MC
Barium, Total	132		mg/kg	0.436		1	09/15/19 17:4	0 09/16/19 21 1	EPA 2050B	97,6010D	МС
Cadmium, Total	0.851		mg/kg	0.436		1	09/15/19 17:4	0//16/1/2011	A 3050B	97,6010D	МС
Chromium, Total	67.9		mg/kg	0.436		1	09/15/19 17:4	0 09/ (19 21) 1	EPA 3050B	97,6010D	MC
Lead, Total	215		mg/kg	2.18		1	09/15/19 7:4	. °2/16/1. ∠1:11	EPA 3050B	97,6010D	МС
Mercury, Total	0.330		mg/kg	0.080		1	00/11/19 06	09/16/19 16:53	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.18		1	09/15/19 7:4	09/16/19 21:11	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.436				0 09/16/19 21:11		97,6010D	МС
Zinc, Total	123		mg/kg	2.18		1	09/15/19 17:40	0 09/16/19 21:11	EPA 3050B	97,6010D	MC
· .					_						



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number: **Report Date:**

L1940717

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24 Client ID: SB-2 (2-3)

LAWRENCE, MA Sample Location:

Date Collected:

09/04/19 10:07

Date Received:

09/06/19

Field Prep:

Not Specified

Sample Depth:

Matrix:

Soil

Percent Solids:	09/0					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MOD Total Matala	N 4 1	-l l - l-									
MCP Total Metals	- Mansilei	u Lab									
Arsenic, Total	8.41		mg/kg	0.425		1	09/15/19 17:4	0 09/16/19 23:17	EPA 3 '50'	97,6010D	MC
Barium, Total	98.5		mg/kg	0.425		1	09/15/19 17:4	0 09/16/19 23 7	EPA 2050B	97,6010D	MC
Cadmium, Total	0.875		mg/kg	0.425		1	09/15/19 17:4	0//16/1/20-17	A 3050B	97,6010D	МС
Chromium, Total	47.7		mg/kg	0.425		1	09/15/19 17:4	0 09 19 23 7	EPA 3050B	97,6010D	МС
Lead, Total	149		mg/kg	2.12		1	09/15/19 7:4	√2/16/1√23:17	EPA 3050B	97,6010D	МС
Mercury, Total	2.03		mg/kg	0.088		1	00/15/19 06	09/16/19 17:33	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12		1	09/15/19 (7:4	09/16/19 23:17	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.425			2/15/19 7:4	· 0 09/16/19 23:17	EPA 3050B	97,6010D	МС
Zinc, Total	116		mg/kg	2.12		1	09/15/19 17:4	0 09/16/19 23:17	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

17001426

Lab Number:

L1940717

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27

Client ID: SB-2 (5-7)-2 Sample Location: LAWRENCE, MA Date Collected:

Report Date:

09/04/19 10:20

Date Received: 09/06/19 Field Prep:

Not Specified

Sample Depth:

Project Number:

Matrix:

Soil

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 30501 97,6010D Barium, Total 126 mg/kg 0.493 1 09/15/19 17:40 09/16/19 23:12 EPA 3050B 97,6010D Cadmium, Total 1.33 mg/kg 0.493 1 09/15/19 17:40 09/16/19 23:12 EPA 3050B 97,6010D Chromium, Total 41.3 mg/kg 0.493 1 09/15/19 17:40 09/16/19 23:12 EPA 3050B 97,6010D Lead, Total 698 mg/kg 2.46 1 09/15/19 7:46 20/16/19 23:22 EPA 3050B 97,6010D Mercury, Total 0.393 mg/kg 0.092 1 09/15/19 7:46 20/16/19 17:35 EPA 7471B 97,7471B	Analyst	Analytical Method	Prep Method	Date Analyzed	Date Prepared	Dilution Factor	MDL	RL	Units	Qualifier	Result	Percent Solids:
Arsenic, Total 7.93 mg/kg 0.493 1 09/15/19 17:40 09/16/19 23:22 EPA 2050B 97,6010D Barium, Total 126 mg/kg 0.493 1 09/15/19 17:40 09/16/19 23:22 EPA 2050B 97,6010D Cadmium, Total 1.33 mg/kg 0.493 1 09/15/19 17:40 09/16/19 23:22 A 3050B 97,6010D Chromium, Total 41.3 mg/kg 0.493 1 09/15/19 17:40 09/16/19 23:22 EPA 3050B 97,6010D Lead, Total 698 mg/kg 2.46 1 09/15/19 7:46 20/16/13 23:22 EPA 3050B 97,6010D Mercury, Total 0.393 mg/kg 0.092 1 09/15/19 06:0/09/16/19 17:35 EPA 7471B 97,7471B												
Barium, Total 126 mg/kg 0.493 1 09/15/19 17:40 09/16/19 23:12 EPA 2050B 97,6010D Cadmium, Total 1.33 mg/kg 0.493 1 09/15/19 17:40 69/16/19 23:12 EPA 3050B 97,6010D Chromium, Total 41.3 mg/kg 0.493 1 09/15/19 17:40 09/16/19 23:12 EPA 3050B 97,6010D Lead, Total 698 mg/kg 2.46 1 09/15/19 7:46 29/16/18 23:22 EPA 3050B 97,6010D Mercury, Total 0.393 mg/kg 0.092 1 09/15/19 7:46 29/16/18 23:22 EPA 7471B 97,7471B				•						d Lab	Mansfield	MCP Total Metals -
Cadmium, Total 1.33 mg/kg 0.493 1 09/15/19 17:40 69/16/1 20:22 A 3050B 97,6010D Chromium, Total 41.3 mg/kg 0.493 1 09/15/19 17:40 09/2 19 23 2 EPA 3050B 97,6010D Lead, Total 698 mg/kg 2.46 1 09/15/19 7:46 29/16/12 23:22 EPA 3050B 97,6010D Mercury, Total 0.393 mg/kg 0.092 1 09/15/19 06/2 09/16/19 17:35 EPA 7471B 97,7471B	MC	97,6010D	EPA 50"	09/16/19 23:22	09/15/19 17:40	1		0.493	mg/kg		7.93	Arsenic, Total
Chromium, Total 41.3 mg/kg 0.493 1 09/15/19 17:40 09% v19 23:2 EPA 3050B 97,6010D Lead, Total 698 mg/kg 2.46 1 09/15/19 7:46 30/16/13 23:22 EPA 3050B 97,6010D Mercury, Total 0.393 mg/kg 0.092 1 09/15/19 06 3/09/16/19 17:35 EPA 7471B 97,7471B	MC	97,6010D	EPA 2050B	0 09/16/19 23 2	09/15/19 17:40	1		0.493	mg/kg		126	Barium, Total
Lead, Total 698 mg/kg 2.46 1 09/15/19 7:46. 9/16/15.23:22 EPA 3050B 97,6010D Mercury, Total 0.393 mg/kg 0.092 1 0000019 0613 09/16/19 17:35 EPA 7471B 97,7471B	МС	97,6010D	A 3050B	0/ 1/16/1/ 20:22	09/15/19 17:40	1		0.493	mg/kg		1.33	Cadmium, Total
Mercury, Total 0.393 mg/kg 0.092 1 00 mg/tg 0.092 for 09/16/19 17:35 EPA 7471B 97,7471B	МС	97,6010D	EPA 3050B	0 09/ (19 23: 2	09/15/19 17:40	1		0.493	mg/kg		41.3	Chromium, Total
	МС	97,6010D	EPA 3050B	2/16/1、23:22	09/15/19 7:46	1		2.46	mg/kg		698	Lead, Total
Colonium Total ND ma/kg 2.40 4 00/45/40.22:22 FDA 2050D 07-5040D	GD	97,7471B	EPA 7471B	09/16/19 17:35	00111/19 06	1		0.092	mg/kg		0.393	Mercury, Total
Selenium, Total ND mg/kg 2.46 1 09/15/19 2:40 09/16/19 23:22 EPA 3050B 97,6010D	МС	97,6010D	EPA 3050B	09/16/19 23:22	09/15/19 (7:4	1		2.46	mg/kg		ND	Selenium, Total
Silver, Total ND mg/kg 0.493 2/15/19 7:40 09/16/19 23:22 EPA 3050B 97,6010D	МС	97,6010D	EPA 3050B	09/16/19 23:22	2/15/19 7:40			0.493	mg/kg		ND	Silver, Total
Zinc, Total 512 mg/kg 2.46 1 09/15/19 17:40 09/16/19 23:22 EPA 3050B 97,6010D	МС	97,6010D	EPA 3050B	09/16/19 23:22	09/15/19 17:40	1		2.46	mg/kg		512	Zinc, Total



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

17001426

Lab Number: **Report Date:**

L1940717

09/20/19

SAMPLE RESULTS

Date Collected:

09/04/19 12:16

L1940717-44 Client ID: D-07 (1-3) Sample Location:

LAWRENCE, MA

Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Project Number:

Matrix:

Lab ID:

Soil

91%

Percent Solids:	91%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MCP Total Metals	 Mansfield 	d Lab									
Arsenic, Total	8.68		mg/kg	0.424		1	09/15/19 17:40	09/16/19 23:52	EPA 3 50"	97,6010D	МС
Barium, Total	297		mg/kg	0.424		1	09/15/19 17:40	09/16/19 25 32	EPA 2050B	97,6010D	МС
Cadmium, Total	3.02		mg/kg	0.424		1	09/15/19 17:40	CJ/16/1 22:52	A 3050B	97,6010D	МС
Chromium, Total	26.2		mg/kg	0.424		1	09/15/19 17:40	09) (19 23) 2	EPA 3050B	97,6010D	МС
Lead, Total	2650		mg/kg	2.12		1	09/15/19 7:40	2/16/1、23:52	EPA 3050B	97,6010D	МС
Mercury, Total	0.326		mg/kg	0.081		1	00111/19 06	09/16/19 17:37	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12		1	09/15/19 (7:4	09/16/19 23:52	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.424			9/15/19 7:40	09/16/19 23:52	EPA 3050B	97,6010D	МС
Zinc, Total	722		mg/kg	2.12		1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

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) LAWRENCE, MA Sample Location:

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	Prep Method	Analytical Method	Analyst
MCP Total Metals	s - Mansfiel	d Lab								<u> </u>	
Arsenic, Total	3.80		mg/kg	0.499		1	09/15/19 17:4	0 09/16/19 23:57	EPA : 50"	97,6010D	МС
Barium, Total	17.2		mg/kg	0.499		1	09/15/19 17:4	0 09/16/19 23 7	EPA 2050B	97,6010D	MC
Cadmium, Total	ND		mg/kg	0.499		1	09/15/19 17:4	0//16/1	A 3050B	97,6010D	MC
Chromium, Total	15.2		mg/kg	0.499		1	09/15/19 17:4	0 09/ 19 23: 7	EPA 3050B	97,6010D	MC
Lead, Total	10.5		mg/kg	2.49		1	09/15/19 7:4	J 2/16/1⊾ ∠3:57	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.095		1	00/19/19 06	09/16/19 17:39	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.49		1	09/15/19 (7:4	09/16/19 23:57	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.499			9/15/19 7:4	0 09/16/19 23:57	EPA 3050B	97,6010D	MC
Zinc, Total	25.3		mg/kg	2.49		1	09/15/19 17:4	0 09/16/19 23:57	EPA 3050B	97,6010D	MC



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426

L1940717 09/20/19

Report Date:

Lab Number:

Date Collected:

SAMPLE RESULTS

Lab ID: L1940717-50 SB-DUP-5 Client ID: Sample Location: LAWRENCE, MA

Date Received: 09/06/19 Field Prep:

Not Specified

09/04/19 00:00

Sample Depth:

Matrix: Soil 91% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals	 Mansfield 	d Lab									
Arsenic, Total	8.93		mg/kg	0.424		1	09/15/19 17:40	09/17/19 00:01	EPA 3 50"	97,6010D	MC
Barium, Total	168		mg/kg	0.424		1	09/15/19 17:40	0 09/17/19 06 1	EPA 2050B	97,6010D	МС
Cadmium, Total	2.78		mg/kg	0.424		1	09/15/19 17:40	0/3/17/1 00:01	A 3050B	97,6010D	МС
Chromium, Total	30.8		mg/kg	0.424		1	09/15/19 17:40	0 09/ 19 00/1	EPA 3050B	97,6010D	МС
Lead, Total	1220		mg/kg	2.12		1	09/15/19 7:40	2/17/1、√0:01	EPA 3050B	97,6010D	МС
Mercury, Total	0.462		mg/kg	0.083		1		09/16/19 17:41	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12		1	09/15/19 17:4	09/17/19 00:01	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.424			9/15/19 7:40	09/17/19 00:01	EPA 3050B	97,6010D	МС
Zinc, Total	534		mg/kg	2.12		1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

17001426

Lab Number:

L1940717

09/20/19

SAMPLE RESULTS

Date Collected:

Report Date:

09/04/19 13:24

Lab ID: L1940717-55 Client ID:

E-06 (1-3)

LAWRENCE, MA

Date Received:

Field Prep:

09/06/19 Not Specified

Sample Depth:

Sample Location:

Project Number:

Matrix:

Soil

0/10/2

Percent Solids:	94%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MCP Total Metals -	 Mansfield 	d Lab									
Arsenic, Total	6.53		mg/kg	0.425		1	09/15/19 17:40	09/17/19 00:05	EPA \$ 50"	97,6010D	MC
Barium, Total	269		mg/kg	0.425		1	09/15/19 17:40	09/17/19 00 5	EPA 2050B	97,6010D	MC
Cadmium, Total	1.82		mg/kg	0.425		1	09/15/19 17:40	/ ₃ /17/1 00:05	A 3050B	97,6010D	MC
Chromium, Total	48.6		mg/kg	0.425		1	09/15/19 17:40	09/ (19 00) 5	EPA 3050B	97,6010D	MC
Lead, Total	241		mg/kg	2.12		1	09/15/19 7:40	°2/17/1. J0:05	EPA 3050B	97,6010D	MC
Mercury, Total	2.59		mg/kg	0.079		1	00 119 06	09/16/19 17:43	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12		1	09/15/19 17:4	09/17/19 00:05	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425			2/15/19 7:40	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



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number: **Report Date:**

L1940717 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56

Client ID: E-06 (5-7)-2 LAWRENCE, MA Sample Location:

Date Collected:

09/04/19 13:35

Date Received: Field Prep:

09/06/19 Not Specified

Sample Depth:

Matrix:

Soil

Percent Solids:	19/0					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MOD Total Matala	Manafial	-11-1-									
MCP Total Metals	- Mansilei	u Lab									
Arsenic, Total	6.74		mg/kg	0.489		1	09/15/19 17:40	0 09/17/19 00:10	EPA 3 50"	97,6010D	MC
Barium, Total	75.0		mg/kg	0.489		1	09/15/19 17:4	0 09/17/19 00 0	EPA 2050B	97,6010D	МС
Cadmium, Total	1.74		mg/kg	0.489		1	09/15/19 17:4	0/3/17/1/00:10	A 3050B	97,6010D	МС
Chromium, Total	24.6		mg/kg	0.489		1	09/15/19 17:4	0 09/ 19 00/ 0	EPA 3050B	97,6010D	МС
Lead, Total	50.8		mg/kg	2.45		1	09/15/19 7:4	√2/17/1√ <i>0</i> :10	EPA 3050B	97,6010D	MC
Mercury, Total	0.362		mg/kg	0.095		1		09/16/19 17:49	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.45		1	09/15/19 7:4	09/17/19 00:10	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.489			9/15/19 7:40	0 09/17/19 00:10	EPA 3050B	97,6010D	МС
Zinc, Total	52.3		mg/kg	2.45		1	09/15/19 17:4	0 09/17/19 00:10	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426

1426 Report

Report Date: 09/20/19

.

Lab Number:

L1940717 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%

Percent Solids:	93/0					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MODIT	N4 (' 1										
MCP Total Metals	- Manstiel	d Lab									
Arsenic, Total	17.0		mg/kg	0.408		1	09/15/19 17:4	0 09/16/19 22:17	EPA . '50'	97,6010D	MC
Barium, Total	328		mg/kg	0.408		1	09/15/19 17:4	0 09/16/19 22 7	EPA 2050B	97,6010D	МС
Cadmium, Total	6.38		mg/kg	0.408		1	09/15/19 17:4	0//16/1/00:17	A 3050B	97,6010D	МС
Chromium, Total	37.8		mg/kg	0.408		1	09/15/19 17:4	0 09/ 19 22: 7	EPA 3050B	97,6010D	МС
Lead, Total	717		mg/kg	2.04		1	09/15/19 7:4	2/16/1. ∠2:17	EPA 3050B	97,6010D	МС
Mercury, Total	0.789		mg/kg	0.083		1	00/19/19 06	09/16/19 17:07	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.04		1	09/15/19 (7:4	09/16/19 22:17	EPA 3050B	97,6010D	МС
Silver, Total	0.481		mg/kg	0.408			9/15/19 7:4	0 09/16/19 22:17	EPA 3050B	97,6010D	МС
Zinc, Total	774		mg/kg	2.04		1	09/15/19 17:4	0 09/16/19 22:17	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date:

Date Collected:

09/20/19

09/05/19 10:02

SAMPLE RESULTS

Lab ID: L1940717-105 Client ID: B-09 (5-7)-2 LAWRENCE, MA Sample Location:

Date Received: 09/06/19 Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids:	92%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MCP Total Metals	- Mansfield	d Lab									
Arsenic, Total	10.6		mg/kg	0.423		1	09/15/19 17:40	09/16/19 22:21	EPA 350"	97,6010D	МС
Barium, Total	410		mg/kg	0.423		1	09/15/19 17:40	09/16/19 22 1	EPA 2050B	97,6010D	MC
Cadmium, Total	6.16		mg/kg	0.423		1	09/15/19 17:40	//16/1/20:21	A 3050B	97,6010D	МС
Chromium, Total	40.0		mg/kg	0.423		1	09/15/19 17:40	09/ (19 22: 1	EPA 3050B	97,6010D	МС
Lead, Total	1150		mg/kg	2.12		1	09/15/19 7:40	2/16/1、22:21	EPA 3050B	97,6010D	МС
Mercury, Total	0.887		mg/kg	0.083		1		09/16/19 17:08	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12		1	09/15/19 (7:4	09/16/19 22:21	EPA 3050B	97,6010D	МС
Silver, Total	2.11		mg/kg	0.423			9/15/19 7:40	09/16/19 22:21	EPA 3050B	97,6010D	МС
Zinc, Total	914		mg/kg	2.12		1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC



WM Profile No. 497552NH

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:	07 /0	o ""				Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	
Parameter	Result	Qualifier	Units	RL	MDL	1 actor	Frepareu	Allalyzeu	Wether	Wictiloa	Analyst
MCP Total Metals	- Mansfield	d Lab									
Arsenic, Total	49.0		mg/kg	0.436		1	09/15/19 17:4	0 09/16/19 21:37	EPA \$ 350"	97,6010D	МС
Barium, Total	59.0		mg/kg	0.436		1	09/15/19 17:4	0 09/16/19 21 7	EPA 2050B	97,6010D	МС
Cadmium, Total	2.66		mg/kg	0.436		1	09/15/19 17:4	0//16/1	A 3050B	97,6010D	МС
Chromium, Total	19.4		mg/kg	0.436		1	09/15/19 17:4	0 09 (19 21) 7	EPA 3050B	97,6010D	MC
Lead, Total	242		mg/kg	2.18		1	09/15/19 7:4	2/16/1、∠1:37	EPA 3050B	97,6010D	MC
Mercury, Total	0.612		mg/kg	0.087		1	00 19 07	09/16/19 17:56	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.18		1	09/15/19 7:4	09/16/19 21:37	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.436			2/15/19 7:4	0 09/16/19 21:37	EPA 3050B	97,6010D	MC
Zinc, Total	245		mg/kg	2.18		1	09/15/19 17:4	0 09/16/19 21:37	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number: **Report Date:**

L1940717

09/20/19

SAMPLE RESULTS

L1940717-115

B-05 (3-5)-2

LAWRENCE, MA

Date Collected:

09/05/19 10:57

Date Received:

09/06/19

Field Prep:

Not Specified

Sample Depth:

Sample Location:

Matrix:

Lab ID:

Client ID:

Soil

Percent Solids:	69%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analys

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	wethod	Analyst
MCP Total Metals	s - Mansfiel	d Lab									
Arsenic, Total	13.4		mg/kg	0.562		1	09/15/19 17:4	0 09/16/19 22:31	EPA . '50'	97,6010D	MC
Barium, Total	26.0		mg/kg	0.562		1	09/15/19 17:4	0 09/16/19 22 1	EPA 2050B	97,6010D	МС
Cadmium, Total	0.601		mg/kg	0.562		1	09/15/19 17:4	0//16/1/20:31	A 3050B	97,6010D	МС
Chromium, Total	15.8		mg/kg	0.562		1	09/15/19 17:4	0 09/ (19 22) 1	EPA 3050B	97,6010D	MC
Lead, Total	33.4		mg/kg	2.81		1	09/15/19 7:4	2/16/1、22:31	EPA 3050B	97,6010D	MC
Mercury, Total	0.107		mg/kg	0.107		1	00 119 06	09/16/19 17:12	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.81		1	09/15/19 17:4	09/16/19 22:31	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.562			9/15/19 7:4	0 09/16/19 22:31	EPA 3050B	97,6010D	МС
Zinc, Total	31.7		mg/kg	2.81		1	09/15/19 17:4	0 09/16/19 22:31	EPA 3050B	97,6010D	MC



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number:

L1940717 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138

Client ID: SB-1 (1-2) LAWRENCE, MA Sample Location:

Date Collected:

Report Date:

09/05/19 13:36

Date Received: Field Prep:

09/06/19 Not Specified

Sample Depth:

Matrix:

Soil

92%

Percent Solids:	92%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MCP Total Metals	- Mansfield	d Lab									
Arsenic, Total	5.94		mg/kg	0.425		1	09/15/19 17:40	09/16/19 22:52	EPA \$ 50"	97,6010D	MC
Barium, Total	74.6		mg/kg	0.425		1	09/15/19 17:40	09/16/19 22 32	EPA 2050B	97,6010D	MC
Cadmium, Total	1.11		mg/kg	0.425		1	09/15/19 17:40	/ ₃ /16/1 22:52	A 3050B	97,6010D	MC
Chromium, Total	25.6		mg/kg	0.425		1	09/15/19 17:40	09/ 19 22 2	EPA 3050B	97,6010D	MC
Lead, Total	342		mg/kg	2.13		1	09/15/19 7:40	2/16/1. 22:52	EPA 3050B	97,6010D	MC
Mercury, Total	0.121		mg/kg	0.081		1		09/16/19 17:16	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.13		1	09/15/19 17:4	09/16/19 22:52	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425			2/15/19 7:40	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
					_						



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: Report Date:

L1940717

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%

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 \$1501 97,6010 Barium, Total 58.3 mg/kg 0.417 1 09/16/19 14:06 09/17/19 00:14 EPA \$050B 97,6010 Cadmium, Total 0.921 mg/kg 0.417 1 09/16/19 14:06 69/17/19 co.14 A 3050B 97,6010	al ^I Analyst
Arsenic, Total 6.12 mg/kg 0.417 1 09/16/19 14:06 09/17/19 00:14 EPA \$ 501 97,6010 Barium, Total 58.3 mg/kg 0.417 1 09/16/19 14:06 09/17/19 00:14 EPA \$ 050B 97,6010	
Barium, Total 58.3 mg/kg 0.417 1 09/16/19 14:06 09/17/19 00:14 EPA 2050B 97,6010	
	р мс
Cadmium, Total 0.921 mg/kg 0.417 1 09/16/19 14:06/17/17 09:14 A 3050B 97,6010	р мс
	D МС
Chromium, Total 13.9 mg/kg 0.417 1 09/16/19 14:06 09 19 00 4 EPA 3050B 97,6010	р мс
Lead, Total 236 mg/kg 2.08 1 09/16/19 1:0c 9/17/1.00:14 EPA 3050B 97,6010	р мс
Mercury, Total 0.306 mg/kg 0.084 1 00000/19 08 00/09/16/19 16:15 EPA 7471B 97,747	B GD
Selenium, Total ND mg/kg 2.08 1 09/16/19 12:0 09/17/19 00:14 EPA 3050B 97,6010	D MC
Silver, Total ND mg/kg 0.417 2/16/19 4:06 09/17/19 00:14 EPA 3050B 97,6010	р мс
Zinc, Total 121 mg/kg 2.08 1 09/16/19 14:06 09/17/19 00:14 EPA 3050B 97,6010	D MC



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Project Number:

Lab Number: **Report Date:**

L1940717

17001426

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140

SB-DUP-1 Client ID: Sample Location:

LAWRENCE, MA

Date Collected:

Field Prep:

09/05/19 00:00

Date Received:

09/06/19 Not Specified

Sample Depth:

Matrix:

Soil

95%

Percent Solids:	95%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MCP Total Metals	 Mansfield 	d Lab									
Arsenic, Total	6.44		mg/kg	0.408		1	09/15/19 17:40	09/16/19 22:56	EPA \$ 50"	97,6010D	МС
Barium, Total	99.9		mg/kg	0.408		1	09/15/19 17:40	0 09/16/19 22 16	EPA 2050B	97,6010D	МС
Cadmium, Total	1.04		mg/kg	0.408		1	09/15/19 17:40	0/3/16/1/20:56	A 3050B	97,6010D	МС
Chromium, Total	30.6		mg/kg	0.408		1	09/15/19 17:40	0 09/ 19 22: 6	EPA 3050B	97,6010D	МС
Lead, Total	371		mg/kg	2.04		1	09/15/19 7:40	2/16/1, 22:56	EPA 3050B	97,6010D	МС
Mercury, Total	0.139		mg/kg	0.078		1		09/16/19 17:18	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.04		1	09/15/19 (17:4	09/16/19 22:56	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.408			9/15/19 7:40	0 09/16/19 22:56	EPA 3050B	97,6010D	МС
Zinc, Total	151		mg/kg	2.04		1	09/15/19 17:40	0 09/16/19 22:56	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

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: Date Received:

09/05/19 13:48

09/06/19

Field Prep:

Not Specified

Sample Depth:

Matrix:

Soil

Percent Solids:

79%

Percent Solids:	19%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
MCP Total Metals	 Mansfield 	d Lab									
Arsenic, Total	8.94		mg/kg	0.496		1	09/16/19 14:06	6 09/17/19 00:53	EPA 3 '50"	97,6010D	MC
Barium, Total	100		mg/kg	0.496		1	09/16/19 14:06	6 09/17/19 00 3	EPA 2050B	97,6010D	MC
Cadmium, Total	1.60		mg/kg	0.496		1	09/16/19 14:00	6/3/17/1/00:53	A 3050B	97,6010D	МС
Chromium, Total	16.9		mg/kg	0.496		1	09/16/19 14:00	6 09/ 19 00/ 3	EPA 3050B	97,6010D	МС
Lead, Total	272		mg/kg	2.48		1	09/16/19 4:00	2/17/1、30:53	EPA 3050B	97,6010D	МС
Mercury, Total	0.329		mg/kg	0.095		1	00/19/19 06	09/16/19 17:20	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.48		1	09/16/19 (14:0	09/17/19 00:53	EPA 3050B	97,6010D	МС
Silver, Total	ND		mg/kg	0.496			9/16/19 4:00	6 09/17/19 00:53	EPA 3050B	97,6010D	МС
Zinc, Total	129		mg/kg	2.48		1	09/16/19 14:00	6 09/17/19 00:53	EPA 3050B	97,6010D	МС



WM Profile No. 497552NH

Serial_No:09201912:30

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 - Mana Batch: WG1284380-1	sfield Lab for sampl	e(s): 11-	12,15,17	-18,21,2	23-24,27,44	-45,50,55-56,1	01,105,113,	115,138,140	
Arsenic, Total	ND	mg/kg	0.400		1	09/15/19 17:40	09/16/19 2011	2 97,6010D	MC
Barium, Total	ND	mg/kg	0.400		1	09/15/19 17:40	09/16/ 3 20:1	97,6010D	MC
Cadmium, Total	ND	mg/kg	0.400		1	09/15/19 17:40	09/16/19 .1:	2 ,6010D	МС
Chromium, Total	ND	mg/kg	0.400		1	09/15/19 17:40	09/16/19 20:1	97,6010D	МС
Lead, Total	ND	mg/kg	2.00		1	09/15/19	09/ 5/19 7 /:1:	2 97,6010D	МС
Selenium, Total	ND	mg/kg	2.00		1	09/15/1 17:4	0 (16/19 20:1	2 97,6010D	МС
Silver, Total	ND	mg/kg	0.400		1	09/15/19 17 0	16/19 20:1:	2 97,6010D	МС
Zinc, Total	ND	mg/kg	2.00		1	0. 15/1 10	09/16/19 20:1	2 97,6010D	МС

Prep Information

Digestion Method:

EPA 3 50b

Parameter	Result Qualifier	Units	PL	MDL	ilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Batch: WG1284435	Mansfield Lab for samp	le(s):	12/5,17-	18,21,23	3-24,27,44	-45,50,55-56,1	01,105,115,1	38,140,143	
Mercury, Total	ND	Ing. 7	083		1	09/16/19 06:00	09/16/19 16:47	97,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	N sult Qualifi	ier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
MCP Total Met	tals - Monsfield Lab for sa	ample(s): 113	Batch:	: WG12	84436-1				
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



WM Profile No. 497552NH

Serial_No:09201912:30

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		Analytical Method	
MCP Total Metals - Man	sfield Lab for sampl	e(s): 139	Batch:	WG12	84469-1				
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 rep red	Date Analyzed	Analytical Method	Analyst
MCP Total Metals -	Mansfield Lab for samp	le(s): 139	,143 Ba	atch: W	/G128 <mark>/ 5</mark> 49-	1			
Arsenic, Total	ND	mg/kg	0.400		1	0 16/19 14:06	09/16/19 23:39	97,6010D	MC
Barium, Total	ND	mg/kg	0.400			9/16/19 14:06	09/16/19 23:39	97,6010D	MC
Cadmium, Total	ND	mg/kg	0.400			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 0		1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Selenium, Total	ND	mg/kg	2.0₺		1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Silver, Total	ND	mg/l	0 00		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

Digetion Method: EPA 3050B



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	LCSI Qual %Reco		%Recovery Limits	P D	Qual RPD Limits
MCP Total Metals - Mansfield Lab Associated s WG1284380-3 SRM Lot Number: D105-540	sample(s): 11-12,	15,17-18,21,23-24,27	,44-45,50,55-56,1	101,105,113,173,138	140 Batch:	: WG1284380-2
Arsenic, Total	92	93		0 30	1	30
Barium, Total	80	87		7. 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			63-137	1	30
Silver, Total	83			69-131	2	30
Zinc, Total	85	86		70-130	1	30
MCP Total Metals - Mansfield Lab Associated s WG1284435-3 SRM Lot Number: D105-540	sample(s): 11-12,	15,17-18,21,28-24,27	,44-45,50,55-56,1	101,105,115,138,140,	143 Batch:	WG1284435-2
Mercury, Total	94	96		60-141	2	30
MCP Total Metals - Mansfield Lab Associated s	sample(s): 13	Batch: WG1284436-2	WG1284436-3	SRM Lot Number: D	105-540	
Mercury, Total	90	94		60-141	4	30
MCP Total Metals - Mansfield Lab Associated	s mp. (s): 1/9	Batch: WG1284469-2	WG1284469-3	SRM Lot Number: D	105-540	
Mercury, Total	91	96		60-141	5	30



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number:

Report Date:

L1940717 09/20/19

arameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	р Б	RPD Limits
MCP Total Metals - Mansfield Lab Asso	ciated sample(s): 139,143	Batch: WG1284649-2	WG1284649-3 SRM L + Jumb	r: D105-540	
Arsenic, Total	94	92	70-1	2	30
Barium, Total	86	89	7 -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	35	69-131	1	30
Zinc, Total	85	86	70-130	1	30



Matrix Spike Analysis Batch Quality Control

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

arameter		Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recover	Qual	Pec Jvery Zimits		Qual	RPD Limits
ICP Total Metal	ls - Mansfield	Lab Associate	d sample(s): 11-12,15, ⁻	17-18,21,23-24	4,27,44-	45,50,55-5	6,101/05,13	112 38	3,140 QC	C Batch	ID: WG	31284380
NG1284380-5					, ,	, ,	, ,) `	,			
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
Onvor, rotar													
Zinc, Total ICP Total Metal						1,27,44-	185 45,50,55-5	144 6,101,105,113,	Q 115,138	75-125 3,140 QC	18 C Batch	ID: WG	35 61284380
		Lab Associate	d sample(s			1,27,44						ID: WG	35 31284380 35
Zinc, Total ICP Total Metal WG1284380-8		Lab Associate L1940717-113	d sample(s Client ID): 11-12,15,): B-05 (1-3		4,27,44-4	45,50,55-5	6,101,105,113, ⁻		3,140 QC	C Batch	ID: WG	31284380 ⁻
Zinc, Total ICP Total Metal NG1284380-8 Arsenic, Total		Lab Associate L1940717-113	d sample(s Client ID): 11-12,15,): B-05 (1.3 57.3	71	1,27,44- <i>-</i>	45,50,55-5 _{58.6}	6,101,105,113, ⁻		3,140 QC 75-125	C Batch	ID: WG	35 35
Zinc, Total ICP Total Metal NG1284380-8 Arsenic, Total Barium, Total		Lab Associate L1940717-113 49.0 59.0	d sample(s Client ID 10.8): 11-12,15,): B-05 (1-3 57.3	77 93	4,27,44-	45,50,55-5 58.6 215	92 90		75-125 75-125	Batch 2 5	ID: WG	35 35
Zinc, Total MCP Total Metal WG1284380-8 Arsenic, Total Barium, Total Cadmium, Total		Lab Associate L1940717-113 49.0 59.0 2.66	d sample(s Client ID 10.8): 11-12,15,): B-05 (1-3 57.3 226 6.43	93 82		45,50,55-5 58.6 215 6.26	92 90 81		75-125 75-125 75-125	2 5 3	ID: WG	35 35 35 35
Zinc, Total MCP Total Metal NG1284380-8 Arsenic, Total Barium, Total Cadmium, Total Chromium, Total		Lab Associate L1940717-113 49.0 59.0 2.66 19.4	d sample(s 3 Client ID 10.8 180 4.59): 11-12,15, : B-05 (1.3 57.3 226 6.43 22.1	93 82 70	Q	45,50,55-5 58.6 215 6.26 32.8	92 90 81 77	115,138	75-125 75-125 75-125 75-125	2 5 3 2	ID: WG	35 35 35 35 35
Zinc, Total MCP Total Metal NG1284380-8 Arsenic, Total Barium, Total Cadmium, Total Chromium, Total Lead, Total		Lab Associate L1940717-113 49.0 59.0 2.66 19.4 242	d sample(s 3 Client ID 10.8 180 4.59): 11-12,15,): B-05 (1.3 57.3 226 6.43 32.1 263	77 93 82 70 46	Q	45,50,55-5 58.6 215 6.26 32.8 304	92 90 81 77 140	115,138	75-125 75-125 75-125 75-125 75-125	2 5 3 2 14	ID: WG	35 35 35 35 35 35
Zinc, Total MCP Total Metal WG1284380-8 Arsenic, Total Barium, Total Cadmium, Total Chromium, Total Lead, Total Selenium, Total		Lab Associate L1940717-113 49.0 59.0 2.66 19.4 242 ND	d sample(s 3 Client ID 10.8 180 4.59 45.9): 11-12,15,): B-05 (1-3) 57.3 226 6.43 32.1 263 11.1	93 82 70 46 103	Q	45,50,55-5 58.6 215 6.26 32.8 304 10.7	92 90 81 77 140	115,138	75-125 75-125 75-125 75-125 75-125 75-125	2 5 3 2 14 4	ID: WG	35 35 35 35 35 35 35 35
Zinc, Total MCP Total Metal WG1284380-8 Arsenic, Total Barium, Total Cadmium, Total Chromium, Total Lead, Total Selenium, Total Silver, Total	QC Sample:	Lab Associate L1940717-113 49.0 59.0 2.66 19.4 242 ND ND 245	d sample(s 3 Client ID 10.8 180 4.59 45.9 10.8 27 45 d sample(s): 11-12,15,): B-05 (1-3) 57.3 226 6.43 32.1 263 11.1 24.3 613): 11-12,15,	93 82 70 46 103 90 818	Q Q Q	45,50,55-5 58.6 215 6.26 32.8 304 10.7 23.3 273	92 90 81 77 140 103 89 64	Q Q	75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125	2 5 3 2 14 4 4 77	Q	35 35 35 35 35 35 35 35 35 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 %Recover	Per ver Limits		RPD Limits
MCP Total Metals - Mansfield 3)	Lab Associated	d sample(s):	113 QC	Batch ID: WG1	284436-4 WG128	34436 Q S	San ve: L194071	17-113 (Client ID: B-05 (1-
Mercury, Total	0.612	0.17	0.793	107	0.743	76	75-125	7	35
MCP Total Metals - Mansfield 3)	Lab Associated	d sample(s):	139 QC	Batch ID: WG1	284469-4 WC-28	34479-5 QC S	Sample: L19407	17-139 (Client ID: SB-1 (2-
Mercury, Total	0.306	0.164	0.503	120	544	141	Q 75-125	8	35
MCP Total Metals - Mansfield (2-3)	Lab Associated	d sample(s):	139,143	QC Batch ID: \	NG1284648 4 WO	G1284649-5 (QC Sample: L19	40717-13	9 Client ID: SB-
Arsenic, Total	6.12	10.6	22.0	149	Q 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	17	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	M	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



Lab Serial Dilution

Analysis
Batch Quality Control

Lab Number:

L1940717

Report Date: 09/20/19

Parameter	Native Sample	Serial Dilution	Units	7 D	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 6 QC Sample: L1940717-23 Client ID: SB-2 (1-2)	11-12,15,17-18,21,23-	24,27,44-45,50,55-56,1	01,105,113, 115	5,138,140	QC Batch	n ID: WG1284380-
Barium, Total	132	103	n ″g	22	Q	20
Chromium, Total	67.9	70.8	ng/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): 9 QC Sample: L1940717-113 Client ID: B-05 (1-3)	11-12,15,17-18,21,23-	24,27,44-45,5 \ 55-56,1	01,105,113,115	5,138,140	QC Batch	n ID: WG1284380-
Arsenic, Total	49.0	57	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



Project Name:

Project Number:

TOMBARELLO SITE

17001426





WM Profile No. 497552NH Serial_No:09201912:30

Project Name: TOMBARELLO SITE

17001426

IOMBARELLO SITE

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:

Project Number:

Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzia	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Date Collected:

09/03/19 11:15

WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Lab Number: L1940717 **Project Number: Report Date:** 09/20/19 17001426

SAMPLE RESULTS

Lab ID: L1940717-02

Client ID: AS-6

Date Received: 09/06/19 Not Specified Sample Location: LAWRENCE, MA Field Prep:

Sample Depth:

Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry - \	Westborough Lab)								
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Serial_No:09201912:30 WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Lab Number: L1940717 **Project Number: Report Date:** 09/20/19 17001426

Date Collected:

09/03/19 11:20

SAMPLE RESULTS

Lab ID: L1940717-03

Client ID: AS-7

Sample Location: LAWRENCE, MA

Date Received: 09/06/19 Not Specified Field Prep:

Sample Depth:

Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz	Analytical Method	Analyst
General Chemistry - \	Westborough Lab)								
Solids, Total	99.0		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Serial_No:09201912:30 WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Lab Number: L1940717 17001426

Report Date: 09/20/19

09/03/19 11:25

Date Collected:

SAMPLE RESULTS

Lab ID: L1940717-04

Client ID: AS-8

Date Received: 09/06/19 Not Specified Sample Location: LAWRENCE, MA Field Prep:

Sample Depth:

Project Number:

Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

Lab Number:

L1940717

Project Number: 17001426

TOMBARELLO SITE

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: Field Prep:

09/06/19 Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	99.0		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



WM Profile No. 497552NH

Lab Number:

L1940717

Project Number: 17001426

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-06

Client ID: AS-2

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

Date Collected:

09/03/19 11:50

Date Received: Field Prep:

09/06/19

Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	99.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



WM Profile No. 497552NH

Lab Number:

L1940717

Project Number: 17001426

TOMBARELLO SITE

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:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	99.6		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



WM Profile No. 497552NH

Lab Number:

L1940717

Project Name: TOMBARELLO SITE
Project Number: 17001426

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:

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



WM Profile No. 497552NH

Lab Number:

L1940717

Project Number: 17001426

TOMBARELLO SITE

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-09

Client ID: AS-DUP-1 Date Collected:

09/03/19 00:00

Date Received: Sample Location: LAWRENCE, MA Field Prep:

09/06/19 Not Specified

Sample Depth:

Project Name:

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

Client ID:

SB-4 (0-0.5)

Sample Location:

LAWRENCE, MA

Date Collected: Date Received: 09/04/19 08:30

Field Prep:

09/06/19 Not Specified

Sample Depth:

Matrix:

Soil

Parameter	Result (Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	95.9		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.846		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - West	borough Lab)								
Solids, Total	94.5		%	0.100	NA	1	-	09 7/19 09:07	121,2540G	RI
pH (H)	5.7		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	140		mv	-	NA	1		09/09/19 22:02	68,1498	AS



WM Profile No. 497552NH

Serial_No:09201912:30

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

WINE NOE, WA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz u	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.857		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westh	oorough Lab	ס								
Solids, Total	93.3		%	0.100	NA	1		09 7/19 09:07	121,2540G	RI
pH (H)	6.3		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	190		mv	-	NA	1		09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE

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 Not Specified Field Prep:

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	86.8		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	1.06		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westb	orough Lal)								
Solids, Total	75.3		%	0.100	NA	1		09 7/19 09:07	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	~ - \	07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1		09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE

17001426

Lab Number: L1940717

Date Collected:

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-16 Client ID: SB-3 (0-0.5) Sample Location: LAWRENCE, MA

Date Received: 09/06/19 Not Specified Field Prep:

09/04/19 09:20

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
0 101 11	\A/ .1 1 1									
General Chemistry -	Westborough Lab									
Solids, Total	95.0		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH Serial_No:09201912:30

Project Name: TOMBARELLO SITE

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	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.853		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - West	borough Lal)								
Solids, Total	93.8		%	0.100	NA	1		09 7/19 09:07	121,2540G	RI
pH (H)	6.5		SU	-	NA	1	~ - \	09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1		09/09/19 22:02	68,1498	AS



WM Profile No. 497552NH

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	Date Prepared	Date Analyz a	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.846		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westk	orough Lab)								
Solids, Total	94.5		%	0.100	NA	1		09 7/19 09:07	121,2540G	RI
pH (H)	7.6		SU	-	NA	1		07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1		09/07/19 11:42	68,1498	JA



Lab Number:

L1940717

Project Number: 17001426 **Report Date:**

09/20/19

SAMPLE RESULTS

Lab ID:

L1940717-19

TOMBARELLO SITE

Client ID:

SB-3 (3-5)

Project Name:

Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:35 Date Received:

Field Prep:

09/06/19 Not Specified

Sample Depth:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	85.2		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.966		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westk	orough Lab)								
Solids, Total	82.8		%	0.100	NA	1	-	09 7/19 09:07	121,2540G	RI
pH (H)	6.2		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1		09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE

Project Number: 17001426 Lab Number:

Date Collected:

L1940717

09/04/19 10:00

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-22 Client ID: SB-2 (0-0.5)

Date Received:

Sample Location: LAWRENCE, MA

09/06/19 Not Specified Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	96.8		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

Lab Number:

L1940717

Project Number: 17001426

TOMBARELLO SITE

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:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz u	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.885		1	09/13/19 22:25	09/15/19 18.	97,7196A	CW
General Chemistry - Westh	oorough Lab	ס								
Solids, Total	90.4		%	0.100	NA	1		09 7/19 09:22	121,2540G	RI
pH (H)	7.9		SU	-	NA	1	~ - \	07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1		09/07/19 11:42	68,1498	JA



WM Profile No. 497552NH

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: Field Prep:

09/06/19 Not Specified

Sample Depth: Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyza	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	1.13		mg/kg	0.897		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westl	borough Lal)								
Solids, Total	89.2		%	0.100	NA	1	-	09 7/19 09:22	121,2540G	RI
pH (H)	7.8		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1		09/09/19 22:02	68,1498	AS



Profile No. 407552NH Serial_No:09201912:30

WM Profile No. 497552NH

Lab Number:

L1940717

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-25 Client ID: SB-2 (3-5)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected:

09/04/19 10:15

Date Received: Field Prep:

09/06/19 Not Specified

Sample Depth:

Project Name:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	86.0		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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: Field Prep:

09/06/19 Not Specified

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.985		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westl	oorough Lal	b								
Solids, Total	81.2		%	0.100	NA	1		09 7/19 09:22	121,2540G	RI
pH (H)	7.6		SU	-	NA	1		07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	150		mv	-	NA	1		09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE

17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-32 E-08 (1-2) Client ID:

Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 11:25 Date Received: 09/06/19 Not Specified Field Prep:

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
Canaval Chamiatm. V	مام الماسين معرف مالام ما									
General Chemistry - V	vestborougn Lab									
Solids, Total	87.0		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

L1940717

Lab Number:

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-33 Client ID: E-08 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 11:30 Date Received: 09/06/19

Not Specified Field Prep:

Sample Depth:

Project Name:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	92.9		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Project Name: TOMBARELLO SITE

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 Not Specified Field Prep:

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	93.3		%	0.100	NA	1	-	09/07/19 09.1	121,2540G	RI



Project Name: TOMBARELLO SITE

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

Not Specified Field Prep:

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzia	Analytical Method	Analyst
General Chemistry - '	Westborough Lab									
Solids, Total	92.4		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyza	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.881		1	09/13/19 22:25	09/15/19 18.	97,7196A	CW
General Chemistry - Westl	borough Lal)								
Solids, Total	90.8		%	0.100	NA	1		09 7/19 09:22	121,2540G	RI
pH (H)	7.8		SU	-	NA	1		07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1		09/07/19 11:42	68,1498	JA



WM Profile No. 497552NH

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	Date Prepared	Date Analyz a	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	jh Lab								
Chromium, Hexavalent	ND		mg/kg	1.03		1	09/13/19 22:25	09/15/19 18.	97,7196A	CW
General Chemistry - Westk	orough Lab)								
Solids, Total	77.6		%	0.100	NA	1	-	09 7/19 09:22	121,2540G	RI
pH (H)	6.4		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	140		mv	-	NA	1		09/09/19 22:02	68,1498	AS



WM Profile No. 497552NH

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 Not Specified

NCE, MA Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.881		1	09/13/19 22:25	09/15/19 18.	97,7196A	CW
General Chemistry - West	borough Lab)								
Solids, Total	90.8		%	0.100	NA	1	-	09 7/19 09:22	121,2540G	RI
pH (H)	7.5		SU	-	NA	1		07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	150		mv	-	NA	1		09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE

Lab Number:

L1940717

Project Number: 17001426 **Report Date:**

09/20/19

SAMPLE RESULTS

Lab ID:

L1940717-51

Client ID:

E-06 (1-2)

Sample Location: LAWRENCE, MA

Date Collected: Date Received: 09/04/19 13:22

Field Prep:

09/06/19 Not Specified

Sample Depth:

Matrix:

Soil

Parameter	Result Qu	alifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz u	Analytical Method	Analyst
General Chemistry	- Westborough Lab								
Solids, Total	96.3	%	0.100	NA	1	-	09/07/19 09	121,2540G	RI



WM Profile No. 497552NH Serial_No:09201912:30

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:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	90.2		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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 Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.856		1	09/13/19 22:25	09/15/19 18.	97,7196A	CW
General Chemistry - Westk	orough Lab)								
Solids, Total	93.5		%	0.100	NA	1	-	09 7/19 09:22	121,2540G	RI
pH (H)	7.4		SU	-	NA	1		07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1		09/07/19 11:42	68,1498	JA



WM Profile No. 497552NH

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: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	1.02		1	09/13/19 22:25	09/15/19 18.	97,7196A	CW
General Chemistry - Westl	borough Lab)								
Solids, Total	78.8		%	0.100	NA	1	-	09 7/19 09:22	121,2540G	RI
pH (H)	7.6		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1		09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE

17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-57 E-05 (1-2) Client ID:

Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:10 Date Received: 09/06/19

Not Specified Field Prep:

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	91.0		%	0.100	NA	1	-	09/07/19 09 3	121,2540G	RI



Project Name: TOMBARELLO SITE

Lab Number:

L1940717

Project Number: 17001426 **Report Date:**

09/20/19

SAMPLE RESULTS

Lab ID:

L1940717-58

Client ID:

E-05 (2-3)

Sample Location: LAWRENCE, MA

Date Collected: Date Received:

09/04/19 14:12

Field Prep:

09/06/19 Not Specified

Sample Depth:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry	- Westborough Lab)								
Solids, Total	87.4		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Project Name: TOMBARELLO SITE

17001426

Lab Number: L1940717

Report Date: 09/20/19

Date Collected:

SAMPLE RESULTS

Lab ID: L1940717-61 Client ID: SB-DUP-6 Sample Location: LAWRENCE, MA

Date Received: 09/06/19 Not Specified Field Prep:

09/04/19 00:00

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	91.3		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-66 Client ID: D-09 (1-2)

Sample Location: LAWRENCE, MA

17001426

Date Collected: 09/04/19 14:50 Date Received: 09/06/19

Not Specified Field Prep:

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	87.8		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

Lab Number:

L1940717

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-67

Client ID: D-09 (2-3)
Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/04/19 14:53

Date Received: 09/06/19

Field Prep:

Not Specified

Sample Depth:

Project Name:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	75.3		%	0.100	NA	1	-	09/07/19 09.1	121,2540G	RI



Project Name: TOMBARELLO SITE

Project Number:

17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-74 B-07 (1-2) Client ID: Sample Location: LAWRENCE, MA Date Collected: 09/04/19 15:27 Date Received: 09/06/19 Not Specified Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	91.2		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Project Name:

TOMBARELLO SITE

Lab Number: L1940717

Date Collected:

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-75 Client ID: B-07 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

17001426

Not Specified Field Prep:

09/04/19 15:29

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz	Analytical Method	Analyst
General Chemistry - '	Westborough Lab)								
Solids, Total	83.4		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Lab Number: L1940717 **Project Number: Report Date:** 09/20/19 17001426

SAMPLE RESULTS

Lab ID: L1940717-86 Client ID: C-08 (1-2) Sample Location: LAWRENCE, MA Date Collected: 09/05/19 09:08 Date Received: 09/06/19 Not Specified Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	87.3		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Profile No. 407552NIH Serial_No:09201912:30

WM Profile No. 497552NH

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:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzia	Analytical Method	Analyst
Canaral Chamiatry	Nooth orough Loh									
General Chemistry - V	vesiborough Lac)								
Solids, Total	77.9		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



TOMBARELLO SITE

Lab Number:

L1940717

Project Number: 17001426 **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 Not Specified Field Prep:

Sample Depth:

Project Name:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	76.8		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH Serial_No:09201912:30

WIM Profile No. 49/5

Lab Number:

L1940717

Project Number: 17001426

TOMBARELLO SITE

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-99 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:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzia	Analytical Method	Analyst
General Chemistry - V	Westborough Lab)								
Solids, Total	95.5		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE

Lab Number: L1940717 **Project Number: Report Date:** 09/20/19 17001426

SAMPLE RESULTS

Lab ID: L1940717-100 Client ID: SB-DUP-3 Sample Location: LAWRENCE, MA

Date Received: 09/06/19 Not Specified Field Prep:

09/05/19 00:00

Date Collected:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	96.4		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

Lab Number:

Field Prep:

L1940717

TOMBARELLO SITE

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 Not Specified

Sample Depth:

Project Name:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.857		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - West	borough La	b								
Solids, Total	93.3		%	0.100	NA	1		09 7/19 09:47	121,2540G	RI
pH (H)	7.0		SU	-	NA	1	~ - \	09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1		09/09/19 22:02	68,1498	AS



Profile No. 407552NH Serial_No:09201912:30

WM Profile No. 497552NH

Lab Number:

L1940717

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-102 Client ID: B-09 (2-3)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 09:55
Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzia	Analytical Method	Analyst
General Chemistry - V	Noothorough Loh									
General Chemistry - v	vesiborough Lac)								
Solids, Total	91.0		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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

LAVVILLINGE, IVIA

Field Prep:

Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.872		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westk	orough Lab)								
Solids, Total	91.7		%	0.100	NA	1	-	09 7/19 09:47	121,2540G	RI
pH (H)	6.8		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1		09/09/19 22:02	68,1498	AS



TOMBARELLO SITE

Lab Number:

L1940717

Project Number: 17001426 **Report Date:** 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-106

Client ID: A-06 (1-2) Date Collected: Date Received:

09/05/19 10:33

Sample Location: LAWRENCE, MA

Field Prep:

09/06/19 Not Specified

Sample Depth:

Project Name:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzia	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab									
Solids, Total	96.7		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH Serial_No:09201912:30

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:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	97.1		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Project Name: TOMBARELLO SITE

17001426

Lab Number: L1940717 09/20/19

Report Date:

SAMPLE RESULTS

Lab ID: L1940717-110 Client ID: SB-DUP-2

Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00

Date Received: Field Prep:

09/06/19 Not Specified

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry - V	Nesthorough Lah									
General Chemistry - V	Westbolough Lab									
Solids, Total	97.2		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Project Name: TOMBARELLO SITE

17001426

Lab Number: L1940717

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-111 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:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz	Analytical Method	Analyst
General Chemistry - '	Westborough Lab)								
Solids, Total	91.9		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Project Name: TOMBARELLO SITE

Lab Number:

L1940717

Project Number: 17001426 **Report Date:**

09/20/19

SAMPLE RESULTS

Lab ID:

L1940717-112

Client ID:

B-05 (2-3)

Sample Location:

LAWRENCE, MA

Date Collected: Date Received: Not Specified Field Prep:

09/05/19 10:51 09/06/19

Sample Depth:

Matrix:

Soil

Matrix.	Con									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry	- Westborough Lab									
Solids, Total	86.4		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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	Date Prepared	Date Analyz u	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.918		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westh	oorough Lal)								
Solids, Total	87.1		%	0.100	NA	1	-	09 7/19 09:47	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	~ ·	07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1		09/07/19 11:42	68,1498	JA



WM Profile No. 497552NH

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: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	1.15		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westk	orough Lab)								
Solids, Total	69.3		%	0.100	NA	1	-	09 7/19 09:47	121,2540G	RI
pH (H)	7.5		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1		09/09/19 22:02	68,1498	AS



Project Name:

Lab Number: **TOMBARELLO SITE**

L1940717 **Project Number: Report Date:** 09/20/19 17001426

SAMPLE RESULTS

Lab ID: Date Collected: L1940717-117 09/05/19 11:12 Client ID: Date Received: 09/06/19 C-05 (1-2) Not Specified Sample Location: LAWRENCE, MA Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry - \	Nestborough Lab									
Solids, Total	87.1		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Date Collected:

Date Received:

Field Prep:

09/05/19 11:15

09/06/19 Not Specified

WM Profile No. 497552NH

TOMBARELLO SITE

Project Name: Lab Number: L1940717 **Project Number: Report Date:** 09/20/19 17001426

SAMPLE RESULTS

Lab ID: L1940717-118 Client ID: C-05 (2-3)

Sample Location: LAWRENCE, MA

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	85.5		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH Serial_No:09201912:30

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Date Collected:

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-121
Client ID: C-06 (1-2)
Sample Location: LAWRENCE, MA

Date Received: 09/06/19 Field Prep: Not Specified

09/05/19 11:32

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry - \	Nesthorough Lah									
Ocheral Orientistry	Westborough Lac	•								
Solids, Total	95.2		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Profile No. 407552NH Serial_No:09201912:30

WM Profile No. 497552NH

Lab Number:

L1940717

17001426

TOMBARELLO SITE

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:

Project Name:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz	Analytical Method	Analyst
General Chemistry - \	Nesthorough Lah									_
Ceneral Chemistry	vestbolough Lab	'								
Solids, Total	91.0		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



Profile No. 407552NH Serial_No:09201912:30

WM Profile No. 497552NH

Lab Number:

L1940717

Report Date:

09/20/19

SAMPLE RESULTS

Lab ID: L1940717-125 Client ID: A-05 (1-2)

Sample Location: LAWRENCE, MA

TOMBARELLO SITE

17001426

Date Collected: 09/05/19 12:12 Date Received: 09/06/19

Field Prep: Not Specified

Sample Depth:

Project Name:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	93.0		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH Serial_No:09201912:30

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Date Collected:

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-126 Client ID: A-05 (2-3)

Sample Location: LAWRENCE, MA

Date Received: 09/06/19
Field Prep: Not Specified

09/05/19 12:14

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab									
Solids, Total	94.3		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

TOMBARELLO SITE

L1940717 **Project Number: Report Date:** 09/20/19 17001426

SAMPLE RESULTS

Lab ID: L1940717-129 E-02 (1-2) Client ID: Sample Location: LAWRENCE, MA

Date Received: 09/06/19 Not Specified Field Prep:

09/05/19 13:05

Lab Number:

Date Collected:

Sample Depth:

Project Name:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	94.0		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



TOMBARELLO SITE

Lab Number:

L1940717

Project Number: 17001426 **Report Date:**

09/20/19

SAMPLE RESULTS

Lab ID:

L1940717-130

Client ID:

Project Name:

E-02 (2-3)

Sample Location: LAWRENCE, MA

Date Collected: Date Received: 09/05/19 13:08

Field Prep:

09/06/19 Not Specified

Sample Depth:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyza	Analytical Method	Analyst
General Chemistry -	- Westborough Lab)								
Solids, Total	94.5		%	0.100	NA	1	_	09/07/19 09.	121.2540G	RI



WM Profile No. 497552NH Serial_No:09201912:30

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:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz a	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	95.0		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.870		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westl	borough Lab)								
Solids, Total	92.0		%	0.100	NA	1	-	09 7/19 09:58	121,2540G	RI
pH (H)	7.8		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1		09/09/19 22:02	68,1498	AS



WM Profile No. 497552NH

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: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.894		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westl	borough Lab)								
Solids, Total	89.5		%	0.100	NA	1	-	09 7/19 09:58	121,2540G	RI
pH (H)	7.7		SU	-	NA	1		07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1		09/07/19 11:42	68,1498	JA



WM Profile No. 497552NH

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: Field Prep:

09/06/19 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westborou	gh Lab								
Chromium, Hexavalent	ND		mg/kg	0.840		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - West	borough Lal	b								
Solids, Total	95.2		%	0.100	NA	1		09 7/19 09:58	121,2540G	RI
pH (H)	8.2		SU	-	NA	1	~ - \	07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1		09/07/19 11:42	68,1498	JA



WM Profile No. 497552NH

TOMBARELLO SITE

Project Name: Project Number: 17001426

Report Date: 09/20/19

L1940717

09/05/19 13:42

Lab Number:

Date Collected:

SAMPLE RESULTS

Lab ID: L1940717-141 SB-1 (3-5) Client ID: Sample Location: LAWRENCE, MA

Date Received: 09/06/19 Not Specified Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyz d	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	78.4		%	0.100	NA	1	-	09/07/19 09.	121,2540G	RI



WM Profile No. 497552NH

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	Date Prepared	Date Analyz d	Analytical Method	Analyst
MCP General Chemistry -	Westboroug	gh Lab								
Chromium, Hexavalent	ND		mg/kg	1.01		1	09/13/19 19:00	09/15/19 18.	97,7196A	CW
General Chemistry - Westl	oorough Lab)								
Solids, Total	79.3		%	0.100	NA	1	-	09 7/19 09:58	121,2540G	RI
pH (H)	7.5		SU	-	NA	1		09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1		09/09/19 22:02	68,1498	AS



WM Profile No. 497552NH

Serial_No:09201912:30

Project Name: TOMBARELLO SITE

L1940717 Project Number: 17001426 **Report Date:**

09/20/19

Lab Number:

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	er Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry	- Westborough Lab	for sample(s)): 11-12	2,101,1	05,113,115	,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	7-18,21	,24,27,139-	140,143 Bat	ch: WG12839	979-1	
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	1-45,50	,55-56 Bat	tch: WG1283	980-1		
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	LCSD Qual %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s)	: 15,18,23,27,44,50,55,1	13,139-140	Batch: WG1281	496-1		
Oxidation/Reduction Potential	101	-		90-110	-		20
General Chemistry - Westborough Lab	Associated sample(s)	: 15,18,23,27,44,50,55,1	13,139-140	Batch: WG1281	505-1		
рН	101	-		99-101	-		
General Chemistry - Westborough Lab	Associated sample(s)	: 11-12,17,21,24,45,56,1	101,105,115,	138,143 Batch:	WG128196 ²	1-1	
рН	100	-		99-101	-		
General Chemistry - Westborough Lab	Associated sample(s)	: 11-12,17,21,24,45,56,1	101,105,115,	138,143 Batch:	WG1281998	8-1	
Oxidation/Reduction Potential	101	-		90-110	-		20
CP General Chemistry - Westborough	Lab Associated samp	ple(s): 11-12,101,105,11	13,115,138	Batch: WG12839	71-2 WG1	283971-3	
Chromium, Hexavalent	97	103		70-129	6		20
ICP General Chemistry - Westborough	Lab Associated sam	ple(s): 15,17-18,21,24,2	7,139-140,14	3 Batch: WG12	283979-2 W	VG128397	9-3
Chromium, Hexavalent	97	103		70-129	6		20
ICP General Chemistry - Westborough	n Lab Associated sam	ple(s): 23,44-45,50,55-5	6 Batch: W	G1283980-2 W	G1283980-3		
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	Qual	MSD Found	MSD %Recovery		ecovery Limits	RPD 0		RPD _imits
MCP General Chemistry - West L1940717-113 Client ID: B-08		Associated	sample(s):	11-12,101,105	,113,11	5,138 QC	Batch ID: WG	61283971	I-4 WG12	283971-5	QC S	Sample:
Chromium, Hexavalent	ND	772	726	94		840	106		75-125	15		35
MCP General Chemistry - West Sample: L1940717-139 Client	borough Lab : ID: SB-1 (2		sample(s):	15,17-18,21,24	1,27,139	9-140,143	QC Batch ID:	WG1283	3979-4 W	G128397	'9-5 C)C
Chromium, Hexavalent	ND	990	933	94		842	87		75-125	10		35
MCP General Chemistry - West 23 Client ID: SB-2 (1-2)	borough Lab	Associated	sample(s):	23,44-45,50,55	5-56 C	C Batch ID	D: WG1283980	-4 WG12	283980-5	QC San	nple: L	1940717-
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 Associ	ated sample(s): 01-13,15-19,21-22	QC Batch ID: WG12	31442-1 Q	C Sample: L	1940717-01 Client ID: AS-
Solids, Total	100	99.7	%	0	20
General Chemistry - Westborough Lab Associ Sample: L1940717-23 Client ID: SB-2 (1-2)	ated sample(s): 23-25,27,32-33,40	-41,44-45,50-52,55-58,6	61,66-67 Q	C Batch ID: \	WG1281445-1 QC
Solids, Total	90.4	91.0	%	1	20
General Chemistry - Westborough Lab Associ Sample: L1940717-74 Client ID: B-07 (1-2)	ated sample(s): 74-75,86-87,90,99	-102,105-107,110-113,1	15,117-118	QC Batch I	D: WG1281446-1 QC
Solids, Total	91.2	92.3	%	1	20
General Chemistry - Westborough Lab Associ L1940717-121 Client ID: C-06 (1-2)	ated sample(s): 121-122,125-126,1	29-130,137-141,143	QC Batch ID	: WG128144	7-1 QC Sample:
Solids, Total	95.2	95.6	%	0	20
General Chemistry - Westborough Lab Associ Client ID: B-05 (1-3)	ated sample(s): 15,18,23,27,44,50,	55,113,139-140 QC E	atch ID: WC	G1281496-2	QC Sample: L1940717-11
Oxidation/Reduction Potential	140	140	mv	0	20
General Chemistry - Westborough Lab Associ L1940717-11 Client ID: SB-4 (1-2)	ated sample(s): 11-12,17,21,24,45,	56,101,105,115,138,14	3 QC Batcl	h ID: WG128	1961-2 QC Sample:
pH (H)	5.7	5.8	SU	2	5
General Chemistry - Westborough Lab Associ L1940717-11 Client ID: SB-4 (1-2)	ated sample(s): 11-12,17,21,24,45,	56,101,105,115,138,14	3 QC Batcl	n ID: WG128	11998-2 QC Sample:
Oxidation/Reduction Potential	140	140	mv	0	20



Lab Number: L1940717

Report Date: 09/20/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

TOMBARELLO SITE

Cooler Information

Project Name:

Cooler Custody Seal

A Absent B Absent

Project Number: 17001426

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1940717-01A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-02A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-03A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-04A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-05A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-06A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-07A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-08A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-09A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-100A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-101A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-101B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-101C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-101D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-101E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-101G	Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-102A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-103A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-104A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)



Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

Project Name: TOMBARELLO SITE

Container Information				Final	Temp			Frozen	
Container ID	Container Type	Cooler	Initial pH	рН	•	Pres	Seal	Date/Time	Analysis(*)
L1940717-105A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-105B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-105C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-105E	Metals Only-Glass 60mL/2oz unpreserved	В	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-BB-6010T-10(180)			
L1940717-105F	Glass 120ml/4oz unpreserved/No Headspace	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-105G	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),TS(7),MCP-8082-10- 3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-106A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-107A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-108A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-109A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-10A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-110A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-111A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-112A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-113A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-113B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-113C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-113D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-113E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	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)



Lab Number: L1940717

Report Date: 09/20/19

Project Name:	TOMBARELLO SITE

Container Information			Initial		Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1940717-113E2	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-113G	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-113G1	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-113G2	Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	Absent		EPH-DELUX-10(14)
L1940717-114A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-115A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-115B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-115C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-115D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-115E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-115G	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-116A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-117A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-118A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-119A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-11A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-11B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-11C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-11D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-11E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	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)



Lab Number: L1940717

Report Date: 09/20/19

Container Information Final Initial Temp Frozen pН Date/Time deg C Pres Cooler Нα Seal Container ID Container Type Analysis(*) L1940717-11F Glass 120ml/4oz unpreserved/No Headspace В NA 3.5 Υ MCP-HEXCR7196-10(30) Absent В L1940717-11G Glass 120ml/4oz unpreserved NA 3.5 Υ Absent ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1), EPH-DELUX-10(14) L1940717-120A Glass 60mL/2oz unpreserved Α NA 4.9 Υ Absent HOLD-8082(14) L1940717-121A Glass 60mL/2oz unpreserved Α 4.9 Υ TS(7),MCP-8082-10-3540C(365) NA Absent TS(7),MCP-8082-10-3540C(365) L1940717-122A Glass 60mL/2oz unpreserved Α NA 4.9 Υ Absent L1940717-123A Glass 60mL/2oz unpreserved Α 4.9 Υ NA Absent HOLD-8082(14) L1940717-124A Glass 60mL/2oz unpreserved Α NA 4.9 Υ Absent HOLD-8082(14) L1940717-125A Glass 60mL/2oz unpreserved Α 4.9 Υ Absent TS(7),MCP-8082-10-3540C(365) NA L1940717-126A Glass 60mL/2oz unpreserved Α 4.9 Υ TS(7),MCP-8082-10-3540C(365) NA Absent L1940717-127A Glass 60mL/2oz unpreserved Α NA 4.9 Υ Absent HOLD-8082(14) Glass 60mL/2oz unpreserved 4.9 Υ L1940717-128A Α NA Absent HOLD-8082(14) Glass 60mL/2oz unpreserved Υ L1940717-129A Α NA 4.9 Absent TS(7),MCP-8082-10-3540C(365) В Υ L1940717-12A Vial MeOH preserved NA 3.5 Absent MCP-8260HLW-10(14) L1940717-12B Vial water preserved В NA 3.5 Υ 07-SEP-19 07:00 MCP-8260HLW-10(14) Absent L1940717-12C Vial water preserved В NA 3.5 Υ Absent 07-SEP-19 07:00 MCP-8260HLW-10(14) L1940717-12D Plastic 2oz unpreserved for TS В 3.5 Υ TS(7) NA Absent L1940717-12E Metals Only-Glass 60mL/2oz unpreserved В NA 3.5 Υ MCP-CR-6010T-10(180),MCP-AS-6010T-Absent 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) В MCP-HEXCR7196-10(30) L1940717-12F Glass 120ml/4oz unpreserved/No Headspace NA 3.5 Υ Absent В L1940717-12G 3.5 Υ ORP-9045(1),MCP-8082-10-3540C(365),PH-Glass 120ml/4oz unpreserved NA Absent 9045(1), EPH-DELUX-10(14) L1940717-130A Glass 60mL/2oz unpreserved NA 4.9 Υ Absent TS(7),MCP-8082-10-3540C(365) Α Υ L1940717-131A Glass 60mL/2oz unpreserved NA 4.9 Absent HOLD-8082(14) L1940717-132A Glass 60mL/2oz unpreserved Α NA 4.9 Υ Absent HOLD-8082(14) L1940717-133A Glass 60mL/2oz unpreserved Α NA 4.9 Υ Absent HOLD-8082(14) L1940717-134A Glass 60mL/2oz unpreserved Α Υ HOLD-8082(14) NA 4.9 Absent L1940717-135A Glass 60mL/2oz unpreserved Α NA 4.9 Υ HOLD-8082(14) Absent



HOLD-8082(14)

4.9

Υ

Absent

L1940717-136A

Glass 60mL/2oz unpreserved

Α

NA

Project Name:

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Container Information			Initial	Final	Tomn			Frozen	
Container ID	Container Type	Cooler	рН	рН	Temp deg C	Pres	Seal	Date/Time	Analysis(*)
L1940717-137A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-138A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-138G	Glass 120ml/4oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-139B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-139C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-139D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-139E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	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	В	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	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-139G	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139G1	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139G2	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-13A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)



Project Name:

Project Number: 17001426

Serial_No:09201912:30

Lab Number: L1940717

Report Date: 09/20/19

Container Info		Initial		Temp		Frozen			
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1940717-140A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-140B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-140C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-140D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-140E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-140G	Glass 120ml/4oz unpreserved	В	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	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-142A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-143A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-143E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-143G	Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-144A	Vial MeOH preserved	Α	NA		4.9	Υ	Absent		ARCHIVE()
L1940717-144B	Vial MeOH preserved	В	NA		3.5	Υ	Absent		ARCHIVE()
L1940717-144C	Vial water preserved	Α	NA		4.9	Υ	Absent	07-SEP-19 07:00	ARCHIVE()
L1940717-144D	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	ARCHIVE()
L1940717-14A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-15A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-15B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-15C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)



Project Name:

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Project Name: TOMBARELLO SITE

Container Information			Initial		Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	•	Pres	Seal	Date/Time	Analysis(*)
L1940717-15D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-15E	Metals Only-Glass 60mL/2oz unpreserved	В	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-BB-6010T-10(180)
L1940717-15F	Glass 120ml/4oz unpreserved/No Headspace	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-15G	Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-16A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-17A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-17B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-17C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-17E	Metals Only-Glass 60mL/2oz unpreserved	В	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-BB-6010T-10(180)
L1940717-17F	Glass 120ml/4oz unpreserved/No Headspace	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-17G	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),TS(7),MCP-8082-10- 3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-18A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-18B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-18C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-18D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-18E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-18G	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-19A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-20A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-21A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-21B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)



Lab Number: L1940717

Report Date: 09/20/19

Project Name: TOMBARELLO SITE

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1940717-21C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-21E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	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-BB-6010T-10(180)
L1940717-21F	Glass 120ml/4oz unpreserved/No Headspace	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-21G	Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),TS(7),PH-9045(1),EPH-DELUX-10(14)
L1940717-22A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-23A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-23B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-23C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-23E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	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	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-23G	Glass 120ml/4oz unpreserved	В	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	В	NA		3.5	Υ	Absent		ORP-9045(1),TS(7),MCP-8082-10- 3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-23G2	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),TS(7),MCP-8082-10- 3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-24A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-24B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-24C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-24D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)



Lab Number: L1940717

Report Date: 09/20/19

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН		Pres	Seal	Date/Time	Analysis(*)
L1940717-24E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-24G	Glass 120ml/4oz unpreserved	В	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	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-26A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-27A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-27E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-27G	Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-28A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-29A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-30A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-31A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-32A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-33A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-34A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-35A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-36A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-37A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-38A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)



HOLD-8082(14)

4.9

Absent

NA

L1940717-39A

Glass 60mL/2oz unpreserved

Project Name:

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Project Name: TOMBARELLO SITE

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1940717-40A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-41A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-42A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-43A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-44A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-44E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-44G	Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-45A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-45B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-45C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-45E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-45G	Glass 120ml/4oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),TS(7),MCP-8082-10- 3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-46A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-47A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-48A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-49A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-50A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-50B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-50C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)



Lab Number: L1940717

Report Date: 09/20/19

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Container Info			Initial	Final				Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1940717-50D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-50E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-50G	Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-51A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-52A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-53A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-54A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-55A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-55B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-55C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-55D	Plastic 2oz unpreserved for TS	В	NA		3.5	Υ	Absent		TS(7)
L1940717-55E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)
L1940717-55G	Glass 60mL/2oz unpreserved	В	NA		3.5	Υ	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-56A	Vial MeOH preserved	В	NA		3.5	Υ	Absent		MCP-8260HLW-10(14)
L1940717-56B	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-56C	Vial water preserved	В	NA		3.5	Υ	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-56E	Metals Only-Glass 60mL/2oz unpreserved	В	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	В	NA		3.5	Υ	Absent		MCP-HEXCR7196-10(30)



ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)

TS(7),MCP-8082-10-3540C(365)

3.5

4.9

Absent

Absent

L1940717-56G

L1940717-57A

Glass 120ml/4oz unpreserved

Glass 60mL/2oz unpreserved

В

NA

NA

Project Name:

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Project Number: 17001426

TOMBARELLO SITE

Project Name:

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН		Pres	Seal	Date/Time	Analysis(*)
L1940717-58A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-59A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-60A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-61A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-62A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-63A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-64A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-65A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-66A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-67A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-68A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-69A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-70A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-71A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-72A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-73A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-74A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-75A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-76A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-77A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-78A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-79A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-80A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-81A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-82A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-83A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-84A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-85A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)



Serial_No:09201912:30

Lab Number: L1940717

Project Number: 17001426 **Report Date:** 09/20/19

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рH	рН		Pres	Seal	Date/Time	Analysis(*)
L1940717-86A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-87A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-88A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-89A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-90A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-91A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-92A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-93A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-94A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-95A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-96A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-97A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-98A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-8082(14)
L1940717-99A	Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7),MCP-8082-10-3540C(365)



Project Name:

WM Profile No. 497552NH

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

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

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

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

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.

- 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.

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

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

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

values; although the RPD value will be provided in the report.

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.

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

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

and then summing the resulting values.

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

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

Footnotes

RPD

Report Format: Data Usability Report



Project Name:TOMBARELLO SITELab Number:L1940717Project Number:17001426Report 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.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- 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



WM Profile No. 497552NH

Project Name: TOMBARELLO SITE Lab Number: L1940717

REFERENCES

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

- 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 VIIIB, 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.
- 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.



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Department: Quality Assurance
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Revision 15 Published Date: 8/15/2019 9:53:42 AM

Page 1 of 1

ID No.:17873

Certification Information

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

Westborough Facility

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

Title: Certificate/Approval Program Summary

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

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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

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

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

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

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

Mansfield Facility:

Drinking Water

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

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

Document Type: Form Pre-Qualtrax Document ID: 08-113

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-46	Dog	D-96(1-2	4	1250			X												Hold	1
-47	D-06			1253			X												Hold	1
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-57	E-05 (1-2)		1410			X													1
-58	8-05 (2.3)		1912			X													1
-59	E-05 (3-5)		1414			X												Hald.	1
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-62	No D-05 (1-2)		1430			X								$\overline{\Box}$		$\overline{\Box}$	ī	Hold	1
-63	D-05 (2-3)		1433			X												Hold	1
-64	D-05 (3-5)	1436			X												Hold	1
-bs	D-05 (5-7		1439			X												Hold	1
-64	D-09 (1-2)		1450			×													1
-67	7-09 (2-3)		1453			13												- X	1
-68	D-09 (3-5)		1456			×												Hold	1
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76	8-06 (1-2)	'	1515	1	- 1	₩												400	1
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-72	8-06 (3-5)		521		l V	N												Wold	1
-73	B-c6 (5-7)		524			M												Hold	1
-74	Bro7 (1-2)		527		-														1
75	B-07 (2-3) B-07 (3-5)		529		-	X		Ц			빌								1
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-79	C-07(2-3)						님	님	님	님	님	무	님	H	H	片	님	Hold	1
-80	C-07 (3-5)		835	-	-	 	H	屵	님	님	님	井		무	님	님	님	Hold	1
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-82	A-07(1-2)		0853			X												Hold	1
-83	A-07 (1-3)		0856			X												Hold	1
-84	A-07 (3-5)		0859			X												Hold	Ti
-85	A-07 (5-7)		0902			□ □												Hold	1
-86	C-08 (1-2)		0908			N												112	1
-87	(-08 (2-3)		0911			X													1
-88	C-08 (3-5)		0914			[X												Hold	1
-89	C-08 (5-7)		0917			₩.												Hold	1
-90	5B-DUP-4	1	_	ļ.	1	X													1
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-102	B-09(2-3)		0955			國													1
-/03	8-09(3.5)		0957				닏	닏							Ц			Hold	1
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ALPHA Lab ID	Sample ID		Collection	Sample	Sampler's	1 3	_	RCRA-8 Metals		Hexavalent Chromium	60								83
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-112	B-05(2-3	5)	1051			X													1
-113	B-05(1-3)		1054				X	X	\boxtimes	\boxtimes	X							MS/MSD	11
-114	B-05(3-5)-		1057			\boxtimes												Hald	1
-115	B-05(3-5)-2	-	1057				X	\boxtimes	X	M	X								7
-116	B-05 (5-7)		1100			□												Hold	1
-117	C-05 (1-2)		1117			X													1
-118	c-05 (2-3)		1115	_			닏	Ц											1
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-120	C-05 (5-7)	1 1 0	1121	<u> </u>		网	Ш	Ц	П		Ц	П	Ц	Ц	Ш	Ц	П	1-1010	f
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C-05(3.	5), C-03(5-7)	´			reservative		7	•	7	A	•	*	*	*		•	•	Please print clearly, legibly and completely. Samples not be logged in and	can
- B-c51	(1-3) Includes V	(une	Relino	uished By:		0.4	ate/Time	,		4	Regelv	ed By:	VI.		ile I.	ate/Tin	10	turnaround time clock will start until any ambiguities	
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-122	C-06 (2-3)		1134			ব													1
-123	C-06 (3-5)		1136			A												Hold	(
-124	(-06 (5-7)		1138			M												1-101d	5
-125	A-105 (1-2)		1212			\boxtimes													1
-126	A-05 (2-3)		1214			X													1
-127	A-05 (3-5)	-	1216			X												ricia	1
-128	A-05(5-+)		1218			×												Hold	1
-129	E-02 (1-2).		1305			N													1
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-132	2-07(5-7)		1314															1101d 1	
-133	B-04 (1-2)		1370			X												Hold, 1	
-134	B-04(2-3)		1373			X			Ц		Ш	Ц		닏		닏	Ц	Hold, !	_
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-136	B-04 (5-7)		1329			Ø	님	닏	님	ᆜ	님	님	님	님	님	님	님	Hold 1	,
-137	SB-1(0-0,5)	-	1333		+	X	H					무	片	片	님	님	H		7
-138	58-1 (1-2)	-	1336			X	X	X	N	N N	N	무	H	片	片	H	님	HS (MCD)	_
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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	



Instrument ID : VOA117

Matrix : SOIL 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	



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	



Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426
Lab Sample ID : WG1284519-5 Lab File ID : V17190915A05

Instrument ID : VOA117

Matrix : SOIL Analysis Date : 09/15/19 14:14

Client Sample No.	Lab Sample ID	Analysis Date
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



Client : Credere Associates, LLC Lab Number : L1940717

Project Name : TOMBARELLO SITE Project Number : 17001426

Lab Sample ID : WG1284598-5 Lab File ID : V23190915A04

Instrument ID : VOA123

Matrix : SOIL Analysis Date : 09/15/19 17:36

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



Client : Credere Associates, LLC Lab Number : L1940717

Project Name : TOMBARELLO SITE Project Number : 17001426

Lab Sample ID : WG1284596-5 Lab File ID : V23190915A04

Instrument ID : VOA123 Matrix : SOIL

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	



Client : Credere 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	



Client : Credere Associates, LLC Lab Number : L1940717

Project Name : TOMBARELLO SITE Project Number : 17001426

Lab Sample ID : WG1284781-5 Lab File ID : V23190916A04

Instrument ID : VOA123 Matrix : SOIL

: SOIL 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	



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

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	



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	



Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426

 Instrument ID
 : VOA123
 Calibration Date
 : 09/14/19 07:24

 Lab File ID
 : V23190914A01
 Init. Calib. Date(s)
 : 06/21/19 06/21/19

 Sample No
 : WG1284565-2
 Init. Calib. Times
 : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mir
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	<u> </u>	11.5	20	69	02
1,1-Dichloropropene	0.318	0.291	-	8.5	20	61	02
Benzene	0.959	0.291		10.8	20	61	01
tert-Amyl methyl ether	0.939	0.563	-	23.3*	20	54	01
1,2-Dichloroethane-d4	0.734	0.563	-	3.1	20	80	02
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

^{*} Value outside of QC limits.



: L1940717

: 17001426

: 09/14/19 07:24

Calibration Verification Summary Form 7 **Volatiles**

Client : Credere Associates, LLC Lab Number **Project Name** : TOMBARELLO SITE Project Number Calibration Date

Instrument ID : VOA123

Lab File ID : V23190914A01 Init. Calib. Date(s) : 06/21/19 06/21/19 Sample No Init. Calib. Times : WG1284565-2 : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
1,2-Dichloropropane	0.254	0.228	-	10.2	20	62	0
2-Chloroethyl vinyl ether	0.185	0.151	-	18.4	20	57	01
Bromodichloromethane	0.327	0.298	-	8.9	20	63	02
1,4-Dioxane	0.00343	0.00331*	-	3.5	20	71	02
cis-1,3-Dichloropropene	0.404	0.353	-	12.6	20	60	0
Chlorobenzene-d5	1	1	-	0	20	77	02
Toluene-d8	1.211	1.232	-	-1.7	20	78	02
Toluene	0.75	0.687	-	8.4	20	62	02
4-Methyl-2-pentanone	0.137	0.109	-	20.4*	20	55	02
Tetrachloroethene	0.306	0.286	-	6.5	20	60	02
trans-1,3-Dichloropropene	0.447	0.403	-	9.8	20	60	02
Ethyl methacrylate	0.415	0.312	-	24.8*	20	51	02
1,1,2-Trichloroethane	0.237	0.203	-	14.3	20	58	01
Chlorodibromomethane	0.311	0.284	-	8.7	20	61	02
1,3-Dichloropropane	0.475	0.405	-	14.7	20	57	01
1,2-Dibromoethane	0.286	0.248	-	13.3	20	58	01
2-Hexanone	0.245	0.221	-	9.8	20	63	02
Chlorobenzene	0.845	0.78	-	7.7	20	62	02
Ethylbenzene	1.401	1.308	-	6.6	20	62	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	02
o Xylene	0.539	0.497	-	7.8	20	62	02
Styrene	0.876	0.815	-	7	20	61	02
1,4-Dichlorobenzene-d4	1	1	-	0	20	79	01
Bromoform	0.424	0.341	-	19.6	20	61	02
Isopropylbenzene	2.578	2.412	-	6.4	20	63	02
4-Bromofluorobenzene	0.913	0.881	-	3.5	20	76	01
Bromobenzene	0.679	0.586	-	13.7	20	60	02
n-Propylbenzene	3.032	2.88	-	5	20	63	01
1,4-Dichlorobutane	0.91	0.833	-	8.5	20	65	01
1,1,2,2-Tetrachloroethane	0.726	0.612	-	15.7	20	56	01
4-Ethyltoluene	2.552	2.377	-	6.9	20	62	0
2-Chlorotoluene	2.106	1.976	-	6.2	20	64	01
1,3,5-Trimethylbenzene	2.162	2.036	-	5.8	20	64	02
1,2,3-Trichloropropane	0.612	0.505	-	17.5	20	58	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	01
tert-Butylbenzene	1.876	1.735	-	7.5	20	62	01
1,2,4-Trimethylbenzene	2.172	2.053	-	5.5	20	64	02
sec-Butylbenzene	2.799	2.659	-	5	20	63	02
p-Isopropyltoluene	2.388	2.268		5	20	63	02
1,3-Dichlorobenzene	1.306	1.21	<u> </u>	7.4	20	64	01
1,4-Dichlorobenzene	1.32	1.21		8.3	20	64	01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE **Project Number** : 17001426 : 09/14/19 07:24

Instrument ID : VOA123 Calibration Date

Init. Calib. Date(s) : 06/21/19 Lab File ID : V23190914A01 06/21/19 Sample No : WG1284565-2 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.

Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/14/19 07:48

Instrument ID : VOA117

Lab File ID : V17190914A02 Init. Calib. Date(s) : 07/26/19 07/26/19 Sample No Init. Calib. Times : WG1284397-2 : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
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	<u> </u>	-34.3*	20	69	0
Methyl cyclohexane	0.395	0.386	<u> </u>	2.3	20	50	0
Trichloroethene	0.248	0.261	<u> </u>	-5.2	20	57	0
Dibromomethane	0.248	0.128	<u> </u>	-14.3	20	58	0

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/14/19 07:48

Instrument ID : VOA117

Lab File ID : V17190914A02 Init. Calib. Date(s) : 07/26/19 07/26/19 Sample No Init. Calib. Times : WG1284397-2 : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mir
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	<u> </u>	8.9	20	63	0
1,2,3-Trichloropropane	0.423	0.412	<u> </u>	2.6	20	67	0
trans-1,4-Dichloro-2-buten	0.159	0.159	<u> </u>	0	20	68	0
4-Chlorotoluene	2.339	2.116	<u> </u>	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
•	3.508	3.195		8.4	20	63	0
sec-Butylbenzene		2.695	-		20	63	0
p-Isopropyltoluene	2.943		-	8.4			-
1,3-Dichlorobenzene	1.397	1.354	-	3.1 3.2	20 20	67 68	0

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE **Project Number** : 17001426 : 09/14/19 07:48

Instrument ID : VOA117 Calibration Date

Init. Calib. Date(s) : 07/26/19 Lab File ID : V17190914A02 07/26/19 Sample No Init. Calib. Times : WG1284397-2 : 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.

Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/15/19 12:56

Instrument ID : VOA117

Lab File ID : V17190915A02 Init. Calib. Date(s) : 07/26/19 07/26/19 Sample No Init. Calib. Times : WG1284519-2 : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mir
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	<u> </u>	-2.4	20	80	0
Dibromomethane	0.112	0.122	-	-8.9	20	80	0

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/15/19 12:56

Instrument ID : VOA117

Lab File ID : V17190915A02 Init. Calib. Date(s) : 07/26/19 07/26/19 Sample No Init. Calib. Times : WG1284519-2 : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
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	<u> </u>	3.8	20	85	0

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE **Project Number** : 17001426 Calibration Date : 09/15/19 12:56

Instrument ID : VOA117

Init. Calib. Date(s) : 07/26/19 Lab File ID : V17190915A02 07/26/19 Sample No Init. Calib. Times : WG1284519-2 : 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.

Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/15/19 12:56

Instrument ID : VOA117

Lab File ID : V17190915A02 Init. Calib. Date(s) : 07/26/19 07/26/19 Sample No Init. Calib. Times : WG1284521-2 : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mir
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	<u> </u>	-2.4	20	80	0
Dibromomethane	0.112	0.122	-	-8.9	20	80	0

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/15/19 12:56

Instrument ID : VOA117

Lab File ID : V17190915A02 Init. Calib. Date(s) : 07/26/19 07/26/19 Sample No Init. Calib. Times : WG1284521-2 : 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	<u> </u>	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
i.J-Dignignopelizene	1.551	1.333	-	7.4	20	U -1	U

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE **Project Number** : 17001426 Calibration Date : 09/15/19 12:56

Instrument ID : VOA117

Init. Calib. Date(s) : 07/26/19 Lab File ID : V17190915A02 07/26/19 Sample No Init. Calib. Times : WG1284521-2 : 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.

Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
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	<u> </u>	13.8	20	55	02
1,2-Dichloroethane-d4	0.734	0.294	-	-1.4	20	76	02
1,2-Dichloroethane	0.29	0.294	-	-0.3	20	64	01
<u> </u>	0.342	0.343	-	7.7	20	58	01
Methyl cyclohexane	0.415			0	20	62	
Trichloroethene Dibromomethane	0.249	0.249 0.155	-	5.5	20	62	01 01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
1,2-Dichloropropane	0.254	0.254	-	0	20	63	0
2-Chloroethyl vinyl ether	0.185	0.171	-	7.6	20	59	01
Bromodichloromethane	0.327	0.331	-	-1.2	20	64	02
1,4-Dioxane	0.00343	0.003*	-	12.5	20	58	02
cis-1,3-Dichloropropene	0.404	0.396	-	2	20	61	0
Chlorobenzene-d5	1	1	-	0	20	71	02
Toluene-d8	1.211	1.215	-	-0.3	20	71	02
Toluene	0.75	0.74	-	1.3	20	62	01
4-Methyl-2-pentanone	0.137	0.131	-	4.4	20	61	02
Tetrachloroethene	0.306	0.3	-	2	20	59	02
trans-1,3-Dichloropropene	0.447	0.441	-	1.3	20	60	01
Ethyl methacrylate	0.415	0.344	-	17.1	20	52	02
1,1,2-Trichloroethane	0.237	0.221	-	6.8	20	58	01
Chlorodibromomethane	0.311	0.304	-	2.3	20	60	02
1,3-Dichloropropane	0.475	0.447	-	5.9	20	59	02
1,2-Dibromoethane	0.286	0.271	-	5.2	20	58	02
2-Hexanone	0.245	0.261	-	-6.5	20	69	02
Chlorobenzene	0.845	0.839	-	0.7	20	61	01
Ethylbenzene	1.401	1.407	-	-0.4	20	62	01
1,1,1,2-Tetrachloroethane	0.297	0.3	-	-1	20	61	02
p/m Xylene	0.545	0.552	-	-1.3	20	62	0
o Xylene	0.539	0.529	-	1.9	20	61	02
Styrene	0.876	0.878	-	-0.2	20	61	02
1,4-Dichlorobenzene-d4		1	-	0	20	72	01
Bromoform	0.424	0.367	-	13.4	20	60	01
Isopropylbenzene	2.578	2.613	-	-1.4	20	62	02
4-Bromofluorobenzene	0.913	0.884	-	3.2	20	69	01
Bromobenzene	0.679	0.626	-	7.8	20	58	02
n-Propylbenzene	3.032	3,162	-	-4.3	20	63	01
1,4-Dichlorobutane	0.91	0.941	-	-3.4	20	67	01
1,1,2,2-Tetrachloroethane	0.726	0.695	-	4.3	20	58	01
4-Ethyltoluene	2.552	2.595	-	-1.7	20	62	01
2-Chlorotoluene	2.106	2.154	-	-2.3	20	64	01
1,3,5-Trimethylbenzene	2.162	2.195	-	-1.5	20	63	02
1,2,3-Trichloropropane	0.612	0.571	-	6.7	20	59	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	01
tert-Butylbenzene	1.876	1.87	<u> </u>	0.3	20	61	01
1,2,4-Trimethylbenzene	2.172	2.244	<u>-</u>	-3.3	20	64	02
sec-Butylbenzene	2.772	2.868	-	-3.5	20	62	02
p-Isopropyltoluene	2.388	2.472		-3.5	20	63	01
1,3-Dichlorobenzene	1.306	1.296	-	0.8	20	62	01
1,4-Dichlorobenzene	1.306	1.296	•	0.8	20	63	01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426

Instrument ID : VOA123 Calibration Date : 09/15/19 16:24

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.467	-	-0.1	20	62	01
n-Butylbenzene	2.231	2.421	-	-8.5	20	66	01
1,2-Dichlorobenzene	1.255	1.214	-	3.3	20	61	01
1,2,4,5-Tetramethylbenzene	2.325	2.266	-	2.5	20	60	01
1,2-Dibromo-3-chloropropan	0.136	0.114	-	16.2	20	56	01
1,3,5-Trichlorobenzene	0.913	0.901	-	1.3	20	62	01
Hexachlorobutadiene	0.428	0.389	-	9.1	20	57	01
1,2,4-Trichlorobenzene	0.862	0.849	-	1.5	20	62	01
Naphthalene	2.486	2.258	-	9.2	20	57	01
1,2,3-Trichlorobenzene	0.842	0.809	-	3.9	20	60	01



^{*} Value outside of QC limits.

Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426

 Instrument ID
 : VOA123
 Calibration Date
 : 09/15/19 16:24

 Lab File ID
 : V23190915A01
 Init. Calib. Date(s)
 : 06/21/19
 06/21/19

 Sample No
 : WG1284598-2
 Init. Calib. Times
 : 03:09
 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
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	<u> </u>	13.8	20	55	02
1,2-Dichloroethane-d4	0.734	0.294	-	-1.4	20	76	02
1,2-Dichloroethane	0.29	0.294	-	-0.3	20	64	01
<u> </u>	0.342	0.343	-	7.7	20	58	01
Methyl cyclohexane	0.415			0	20	62	
Trichloroethene Dibromomethane	0.249	0.249 0.155	-	5.5	20	62	01 01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/15/19 16:24

Instrument ID : VOA123

Lab File ID : V23190915A01 Init. Calib. Date(s) : 06/21/19 06/21/19 Sample No Init. Calib. Times : WG1284598-2 : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
1,2-Dichloropropane	0.254	0.254	-	0	20	63	0
2-Chloroethyl vinyl ether	0.185	0.171	-	7.6	20	59	01
Bromodichloromethane	0.327	0.331	-	-1.2	20	64	02
1,4-Dioxane	0.00343	0.003*	-	12.5	20	58	02
cis-1,3-Dichloropropene	0.404	0.396	-	2	20	61	0
Chlorobenzene-d5	1	1	-	0	20	71	02
Toluene-d8	1.211	1.215	-	-0.3	20	71	02
Toluene	0.75	0.74	-	1.3	20	62	01
4-Methyl-2-pentanone	0.137	0.131	-	4.4	20	61	02
Tetrachloroethene	0.306	0.3	-	2	20	59	02
trans-1,3-Dichloropropene	0.447	0.441	-	1.3	20	60	01
Ethyl methacrylate	0.415	0.344	-	17.1	20	52	02
1,1,2-Trichloroethane	0.237	0.221	-	6.8	20	58	01
Chlorodibromomethane	0.311	0.304	-	2.3	20	60	02
1,3-Dichloropropane	0.475	0.447	-	5.9	20	59	02
1,2-Dibromoethane	0.286	0.271	-	5.2	20	58	02
2-Hexanone	0.245	0.261	-	-6.5	20	69	02
Chlorobenzene	0.845	0.839	-	0.7	20	61	01
Ethylbenzene	1.401	1.407	-	-0.4	20	62	01
1,1,1,2-Tetrachloroethane	0.297	0.3	-	-1	20	61	02
p/m Xylene	0.545	0.552	-	-1.3	20	62	0
o Xylene	0.539	0.529	-	1.9	20	61	02
Styrene	0.876	0.878	-	-0.2	20	61	02
1,4-Dichlorobenzene-d4		1	-	0	20	72	01
Bromoform	0.424	0.367	-	13.4	20	60	01
Isopropylbenzene	2.578	2.613	-	-1.4	20	62	02
4-Bromofluorobenzene	0.913	0.884	-	3.2	20	69	01
Bromobenzene	0.679	0.626	-	7.8	20	58	02
n-Propylbenzene	3.032	3,162	-	-4.3	20	63	01
1,4-Dichlorobutane	0.91	0.941	-	-3.4	20	67	01
1,1,2,2-Tetrachloroethane	0.726	0.695	-	4.3	20	58	01
4-Ethyltoluene	2.552	2.595	-	-1.7	20	62	01
2-Chlorotoluene	2.106	2.154	-	-2.3	20	64	01
1,3,5-Trimethylbenzene	2.162	2.195	-	-1.5	20	63	02
1,2,3-Trichloropropane	0.612	0.571	-	6.7	20	59	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	01
tert-Butylbenzene	1.876	1.87	<u> </u>	0.3	20	61	01
1,2,4-Trimethylbenzene	2.172	2.244	<u>-</u>	-3.3	20	64	02
sec-Butylbenzene	2.772	2.868	-	-3.5	20	62	02
p-Isopropyltoluene	2.388	2.472		-3.5	20	63	01
1,3-Dichlorobenzene	1.306	1.296	-	0.8	20	62	01
1,4-Dichlorobenzene	1.306	1.296	•	0.8	20	63	01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE **Project Number** : 17001426 : 09/15/19 16:24

Instrument ID : VOA123 Calibration Date

Init. Calib. Date(s) : 06/21/19 Lab File ID : V23190915A01 06/21/19 Sample No : WG1284598-2 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	01
n-Butylbenzene	2.231	2.421	-	-8.5	20	66	01
1,2-Dichlorobenzene	1.255	1.214	-	3.3	20	61	01
1,2,4,5-Tetramethylbenzene	2.325	2.266	-	2.5	20	60	01
1,2-Dibromo-3-chloropropan	0.136	0.114	-	16.2	20	56	01
1,3,5-Trichlorobenzene	0.913	0.901	-	1.3	20	62	01
Hexachlorobutadiene	0.428	0.389	-	9.1	20	57	01
1,2,4-Trichlorobenzene	0.862	0.849	-	1.5	20	62	01
Naphthalene	2.486	2.258	-	9.2	20	57	01
1,2,3-Trichlorobenzene	0.842	0.809	-	3.9	20	60	01



^{*} Value outside of QC limits.

Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
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	<u> </u>	10.5	20	56	02
1,2-Dichloroethane-d4	0.734	0.298	<u>-</u>	-2.8	20	75	02
1,2-Dichloroethane	0.342	0.298	-	-2.o -5	20	67	02
Methyl cyclohexane	0.415	0.391		5.8	20	58	02
Trichloroethene	0.415	0.258	-	-3.6	20	63	01
Dibromomethane	0.249	0.258	-	1.2	20	63	01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/16/19 06:56

Instrument ID : VOA123

Lab File ID : V23190916A01 Init. Calib. Date(s) : 06/21/19 06/21/19 Sample No Init. Calib. Times : WG1284781-2 : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
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	<u> </u>	-2.2	20	62	02
1,2,4-Trimethylbenzene	2.172	2.277	<u> </u>	-4.8	20	65	02
sec-Butylbenzene	2.772	2.943	-	-5.1	20	64	02
p-Isopropyltoluene	2.799	2.502		-4.8	20	64	02
1,3-Dichlorobenzene	1.306	1.339	<u> </u>	-4.6	20	65	02
1,3-DICHIOTODETZETIE	1.32	1.352	-	-2.5 -2.4	20	65	01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE **Project Number** : 17001426

Instrument ID : VOA123 Calibration Date : 09/16/19 06:56 Init. Calib. Date(s) : 06/21/19 Lab File ID : V23190916A01

06/21/19 Sample No : WG1284781-2 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	01
n-Butylbenzene	2.231	2.436	-	-9.2	20	67	01
1,2-Dichlorobenzene	1.255	1.253	-	0.2	20	63	01
1,2,4,5-Tetramethylbenzene	2.325	2.304	-	0.9	20	62	01
1,2-Dibromo-3-chloropropan	0.136	0.119	-	12.5	20	58	01
1,3,5-Trichlorobenzene	0.913	0.902	-	1.2	20	62	01
Hexachlorobutadiene	0.428	0.378	-	11.7	20	56	01
1,2,4-Trichlorobenzene	0.862	0.858	-	0.5	20	63	01
Naphthalene	2.486	2.385	-	4.1	20	60	01
1,2,3-Trichlorobenzene	0.842	0.82	-	2.6	20	62	01



^{*} Value outside of QC limits.

Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/16/19 06:56

Instrument ID : VOA123

Lab File ID : V23190916A01 Init. Calib. Date(s) : 06/21/19 06/21/19 Sample No Init. Calib. Times : WG1284780-2 : 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	<u> </u>	-4.4	20	63	01
Benzene	0.959	0.971	<u> </u>	-1.3	20	62	01
tert-Amyl methyl ether	0.734	0.657	<u> </u>	10.5	20	56	02
1,2-Dichloroethane-d4	0.734	0.298	<u> </u>	-2.8	20	75	02
1,2-Dichloroethane	0.29	0.298	<u> </u>	-2.o -5	20	67	02
Methyl cyclohexane	0.342	0.399	-	5.8	20	58	02
Trichloroethene	0.415	0.391		-3.6	20	63	01
Dibromomethane	0.249	0.258	-	1.2	20	63	01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/16/19 06:56

Instrument ID : VOA123

Lab File ID : V23190916A01 Init. Calib. Date(s) : 06/21/19 06/21/19 Sample No Init. Calib. Times : WG1284780-2 : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
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	<u> </u>	-2.2	20	62	02
1,2,4-Trimethylbenzene	2.172	2.277	<u> </u>	-4.8	20	65	02
sec-Butylbenzene	2.772	2.943	-	-5.1	20	64	02
p-Isopropyltoluene	2.799	2.502		-4.8	20	64	02
1,3-Dichlorobenzene	1.306	1.339	<u> </u>	-4.6	20	65	02
1,3-DICHIOTODETZETIE	1.32	1.352	-	-2.5 -2.4	20	65	01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426

Instrument ID : VOA123 Calibration Date : 09/16/19 06:56

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.468	-	-0.1	20	62	01
n-Butylbenzene	2.231	2.436	-	-9.2	20	67	01
1,2-Dichlorobenzene	1.255	1.253	-	0.2	20	63	01
1,2,4,5-Tetramethylbenzene	2.325	2.304	-	0.9	20	62	01
1,2-Dibromo-3-chloropropan	0.136	0.119	-	12.5	20	58	01
1,3,5-Trichlorobenzene	0.913	0.902	-	1.2	20	62	01
Hexachlorobutadiene	0.428	0.378	-	11.7	20	56	01
1,2,4-Trichlorobenzene	0.862	0.858	-	0.5	20	63	01
Naphthalene	2.486	2.385	-	4.1	20	60	01
1,2,3-Trichlorobenzene	0.842	0.82	-	2.6	20	62	01



^{*} Value outside of QC limits.

Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE **Project Number** : 17001426 Calibration Date : 09/16/19 19:09

Instrument ID : VOA123

Init. Calib. Date(s) : 06/21/19 Lab File ID : V23190916N01 06/21/19 Sample No : WG1284929-2 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
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	<u> </u>	-7	20	60	01
Ethyl acetate	0.43	0.40	<u> </u>	-10	20	64	02
Carbon tetrachloride	0.331	0.357	<u> </u>	-7.9	20	60	02
	0.331	0.337		-13.2	20	66	02
Tetrahydrofuran Dibromofluoromethane	0.262	0.12	-	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.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE Project Number : 17001426 Calibration Date : 09/16/19 19:09

Instrument ID : VOA123

Lab File ID : V23190916N01 Init. Calib. Date(s) : 06/21/19 06/21/19 Sample No Init. Calib. Times : WG1284929-2 : 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	01
Bromodichloromethane	0.327	0.342	-	-4.6	20	59	02
1,4-Dioxane	0.00343	0.00322*	-	6.1	20	56	02
cis-1,3-Dichloropropene	0.404	0.399	-	1.2	20	55	0
Chlorobenzene-d5	1	1	-	0	20	63	01
Toluene-d8	1.211	1.219	-	-0.7	20	63	02
Toluene	0.75	0.77	-	-2.7	20	57	02
4-Methyl-2-pentanone	0.137	0.13	-	5.1	20	54	02
Tetrachloroethene	0.306	0.316	-	-3.3	20	55	01
trans-1,3-Dichloropropene	0.447	0.444	-	0.7	20	54	01
Ethyl methacrylate	0.415	0.339	-	18.3	20	45	02
1,1,2-Trichloroethane	0.237	0.226	-	4.6	20	53	01
Chlorodibromomethane	0.311	0.31	-	0.3	20	55	02
1,3-Dichloropropane	0.475	0.452	-	4.8	20	53	01
1,2-Dibromoethane	0.286	0.271	-	5.2	20	51	01
2-Hexanone	0.245	0.261	-	-6.5	20	61	02
Chlorobenzene	0.845	0.872	-	-3.2	20	57	02
Ethylbenzene	1.401	1.495	-	-6.7	20	58	01
1,1,2-Tetrachloroethane	0.297	0.308	-	-3.7	20	55	02
p/m Xylene	0.545	0.576	-	-5.7	20	57	0
o Xylene	0.539	0.554	-	-2.8	20	56	01
Styrene	0.876	0.907	-	-3.5	20	56	02
1,4-Dichlorobenzene-d4	1	1	-	0	20	64	01
Bromoform	0.424	0.36	-	15.1	20	52	01
Isopropylbenzene	2.578	2.753	-	-6.8	20	58	02
4-Bromofluorobenzene	0.913	0.892	-	2.3	20	62	01
Bromobenzene	0.679	0.65	-	4.3	20	54	02
n-Propylbenzene	3.032	3.344	-	-10.3	20	59	01
1,4-Dichlorobutane	0.91	0.95	-	-4.4	20	60	01
1,1,2,2-Tetrachloroethane	0.726	0.704	-	3	20	52	01
4-Ethyltoluene	2.552	2.738	-	-7.3	20	58	0
2-Chlorotoluene	2.106	2.252	-	-6.9	20	59	01
1,3,5-Trimethylbenzene	2.162	2.333	-	-7.9	20	59	02
1,2,3-Trichloropropane	0.612	0.583	-	4.7	20	54	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	01
tert-Butylbenzene	1.876	1.976	-	-5.3	20	57	01
1,2,4-Trimethylbenzene	2.172	2.323	-	-7	20	58	02
sec-Butylbenzene	2.799	3.106	-	-11	20	60	01
p-Isopropyltoluene	2.388	2.608	-	-9.2	20	59	02
1,3-Dichlorobenzene	1.306	1.341	-	-2.7	20	57	01
1.4-Dichlorobenzene	1.32	1.342		-1.7	20	57	01

^{*} Value outside of QC limits.



Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426

Instrument ID : VOA123 Calibration Date : 09/16/19 19:09

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.542	-	-5.2	20	58	01
n-Butylbenzene	2.231	2.568	-	-15.1	20	62	01
1,2-Dichlorobenzene	1.255	1.25	-	0.4	20	56	01
1,2,4,5-Tetramethylbenzene	2.325	2.321	-	0.2	20	55	01
1,2-Dibromo-3-chloropropan	0.136	0.116	-	14.7	20	50	01
1,3,5-Trichlorobenzene	0.913	0.916	-	-0.3	20	56	01
Hexachlorobutadiene	0.428	0.415	-	3	20	54	0
1,2,4-Trichlorobenzene	0.862	0.834	-	3.2	20	54	01
Naphthalene	2.486	2.258	-	9.2	20	50	01
1,2,3-Trichlorobenzene	0.842	0.788	-	6.4	20	52	01



^{*} Value outside of QC limits.

Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE **Project Number** : 17001426 : 09/17/19 07:26

Instrument ID : VOA123 Calibration Date

Init. Calib. Date(s) : 06/21/19 Lab File ID : V23190917A01 06/21/19 Init. Calib. Times Sample No : WG1285102-2 : 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.



Client : Credere Associates, LLC Lab Number : L1940717
Project Name : TOMBARELLO SITE Project Number : 17001426

 Instrument ID
 : VOA123
 Calibration Date
 : 09/17/19 07:26

 Lab File ID
 : V23190917A01
 Init. Calib. Date(s)
 : 06/21/19 06/21/19

 Sample No
 : WG1285102-2
 Init. Calib. Times
 : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(m
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	02
trans-1,4-Dichloro-2-buten	0.212	0.221	<u> </u>	-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
·	2.172	2.067		4.8	20	70	01
1,2,4-Trimethylbenzene			-				
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.



Client : Credere Associates, LLC Lab Number : L1940717 **Project Name** : TOMBARELLO SITE **Project Number** : 17001426

Instrument ID : VOA123 Calibration Date : 09/17/19 07:26

Init. Calib. Date(s) : 06/21/19 Lab File ID : V23190917A01 06/21/19 Sample No : WG1285102-2 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.

WM Profile No. 497552NH

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

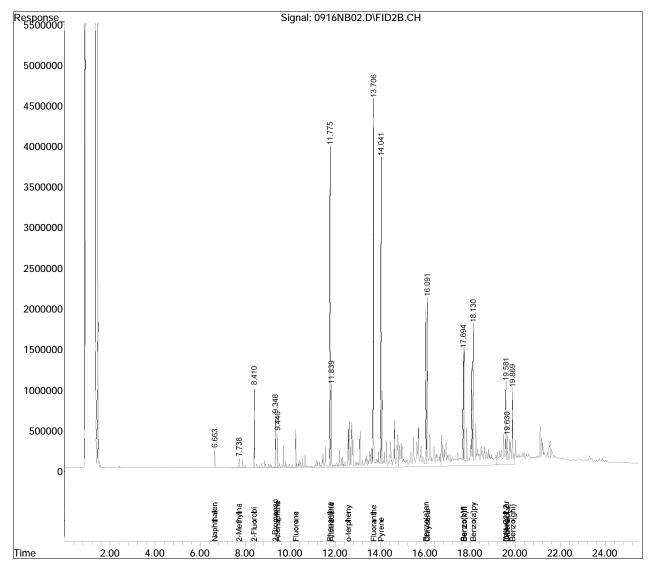
Quant Title : MA EPH Aromatic

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 :



MAARO160318.M Tue Sep 17 09:41:22 2019



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

Ms. Ellen Bellio -2- June 5, 2020

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.

Tleen S. Gladstone, P.E., LSP, LEED AP

Senior Vice President

Leslie A. Lombardo, P.E.

du alousardo

Project Manager

LAL/ISG:jam Attachments

c: Pedro Soto, City of Lawrence

B:Working'LAWRENCE, CITY OF\1802441 Former Tombarello\01_ADMIN\LSP Opinion Ltrs\Lot 1 Soil TREE Supp Info 2020-06\Ltr Tombarello TREE RemedWaste Profile Suppl Info 2020-06\Ltr Tombarello Tree Suppl Info 2020-06\Ltr Tombarello Tree Suppl Info 2020-06\Ltr Tombarello Tree Suppl Info 2020-06\Ltr Tombarello Tr

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-DISP02-Grab	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
	ı	1	Reuse Levels for	Reuse Levels for	2000400-01	2000466-02	2000466-03
			In-State Unlined	In-State Lined			
Analyte	Method	Units	Landfill	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		Ĭ	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:

- Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.

 "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

 Unlined and lined landfill disposal criteria are from MassDEP Policy #COMM-97-001, dated August 15, 1997.

- NT = The sample was not tested for this analyte.

 ND = The analyte was not tested for this analyte.

 ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.

 NS = No disposal facility criteria has been established for this analyte.

 mg/kg = milligrams per kilogram

 mg/L = milligrams per liter

 S.U. = standard units.

- Sol. startdard units.
 degrees Fahrenheit.
 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

<u>Table</u> 2. Chemical Testing Results - Asphalt Samples Former Tombarello Site Lawrence, Massachusetts

Samp		cation Name	AS-1	AS-2	AS-DUP-1	AS-3	AS-4
		ample 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 Da		Sample Date	9/3/2019	9/3/2019	9/3/2019	9/3/2019	9/3/2019
		rent Sample			AS-2		
	Lab	Sample ID:	L1940717-05	L1940717-06	L1940717-09	L1940717-07	L1940717-08
Analyte Units CAS		CAS No.					
Polychlorinated Biphenyls (PCBs)	mg/kg						
Aroclor 1260		11096-82-5	0.986	0.508	1.61	0.184	0.354
Total PCBs	Aroclor 1260 1		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.

Table 3. Chemical Testing Results - Additional Soil Samples Excavation Area #1 Former Tombarello Property - Lot 1, Northwest Portion Lawrence, Massachusetts

	ı	ocation 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		1	2	3	5
		End Depth	0.5	2	3	5	7
		Depth Unit		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		85-01-8 129-00-0		5.13	7.08		24.0
Pyrene Polychlorinated Biphenyls (PCBs)	m a /lea	129-00-0		6.52	8.71		22.3
Aroclor 1248	mg/kg	12672-29-6	< 0.0339	< 0.035	< 0.0363	< 0.038	NT
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	1000 00 0	NT	0.000	1 0.0000	NT	
Arsenic		7440-38-2	141	9.19	8.41	131	7.93
Barium		7440-39-3		132	98.5		126
Cadmium	1	7440-43-9		0.851	0.875		1.33
Chromium	1	7440-47-3		67.9	47.7		41.3
Hexavalent Chromium (Cr VI)		18540-29-9		< 0.885	1.13		< 0.985
Lead	1	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	<u> </u>	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
рН	s.u.	рН	NT	7.9	7.8	NT	7.6

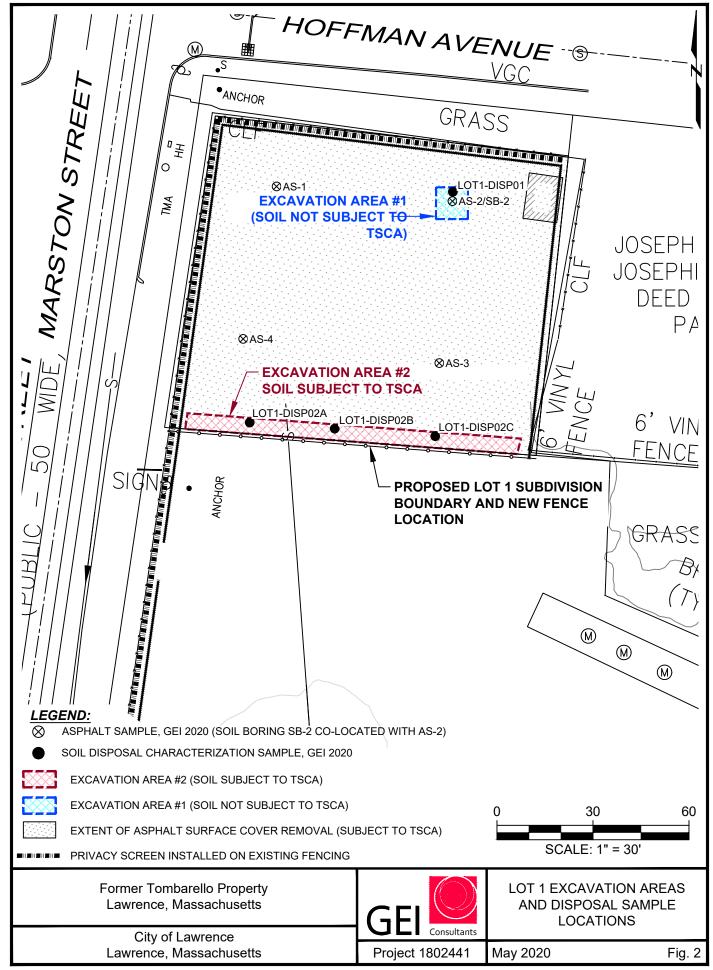
Notes:

- 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



Appendix A

Waste Management EZ Profile Form - Revised



EZ Profile™

Requested Facility: Turnkey Landfill	Unsure Profile Number:
☐ Multiple Generator Locations (Attach Locations) ☐ Request Certific	rate of Disposal 🔲 Renewal? Original Profile Number:
A. GENERATOR INFORMATION (MATERIAL ORIGIN)	B. BILLING INFORMATION ☐ SAME AS GENERATO
1. Generator Name: <u>City of Lawrence</u>	1. Billing Name: W.L. French Excavating Corp.
2. Site Address: 207 Marston Street	2. Billing Address: 14 Sterling Rd
(City, State, ZIP) Lawrence, MA 01841	(City, State, ZIP) Billerica, MA
3. County: Middlesex	3. Contact Name: Dan Walsh
4. Contact Name: Pedro Soto	4. Email: dwalsh@wlfrench.com
5. Email: psoto@cityoflawrence.com	5. Phone: <u>978-663-2623</u> 6. Fax:
6. Phone: <u>978-620-3501</u> 7. Fax:	7. WM Hauled? ☐ Yes ☑ N
8. Generator EPA ID: 🗹 N/A	8. P.O. Number:
9. State ID: V N/A	
C. MATERIAL INFORMATION	D. REGULATORY INFORMATION
1. Common Name: PCB Remediation Waste, PCBs <50 mg/kg: Soil and Asphalt	1. EPA Hazardous Waste? ☐ Yes* ☑ N
Describe Process Generating Material:	
	2. State Hazardous Waste? ☐ Yes ☑ No
	3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☑ N
2. Material Composition and Contaminants: ☐ See Attached	4. Contains Underlying Hazardous Constituents? ☐ Yes* ☑ N
·	5. From an industry regulated under Benzene NESHAP? ☐ Yes* ☑ N
1. Narrowly to widely graded sand with gravel and silty sand (max PCB cone. 0.16 mg/kg 2. in sample Lot1-DISP02-COMP composited from Lot1-DISP02A, Lot1-DISP02B, and Lot1-DISP02C)	6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☑ N
2. Lot1-DISP02C) 3. Asphalt debris (max PCB conc. 1.61 mg/kg at AS-2) 80%	7. CERCLA or State-mandated clean-up? ✓ Yes* ☐ N
4. Trace brick and slag	8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☑ N
Total comp. must be equal to or greater than 100% ≥100%	*If Yes, see Addendum (page 2) for additional questions and space
3. State Waste Codes: <u>✓ N/A</u>	9. Contains PCBs? → If Yes, answer a, b and c. ✓ Yes □ N
4. Color: brown, black, gray	a. Regulated by 40 CFR 761? ✓ Yes □ N
5. Physical State at 70°F: ☑ Solid □ Liquid □ Other:	b. Remediation under 40 CFR 761.61 (a)?
6. Free Liquid Range Percentage: to	c. Were PCB imported into the US? ☐ Yes ☑ No.
7. pH: to Z N/A	TO. Requiated and/or Unitreated $\square_{V_{-}}$
8. Strong Odor: Ves No Describe:	11. Contains Asbestos? ☐ Yes ☑ No
9. Flash Point: □ <140°F □ 140°−199°F □ ≥200° □ N/A	
E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION	F. SHIPPING AND DOT INFORMATION
1. Analytical attached ☑ Yes	1. ☑ One-Time Event ☐ Repeat Event/Ongoing Business
Please identify applicable samples and/or lab reports:	2. Estimated Quantity/Unit of Measure: 417
rofile 497552NH Soil Sample IDs 1802441-Lot1-DISP01, 1802441-Lot1-DISP02-	☐ Tons ☑ Yards ☐ Drums ☐ Gallons ☐ Other:
1802441-Lot1-DISP02-Comp, SB-2 (0-0.5), SB-2 (1-2), SB-2 (2-3), SB-2 (3-5), B-2 (5-7)-2. Asphalt sample IDs: AS-1, AS-2, AS-DUP-1, AS-3, AS-4. All	3. Container Type and Size: end dump trailer
les in attached Tables 1-3 are applicable.	4. USDOT Proper Shipping Name:
2. Other information attached (such as MSDS)? ☑ Yes	
all relevant information necessary for proper material characterization and to identify kn	Id all attached documents contain true and accurate descriptions of this material, and that sown and suspected hazards has been provided. Any analytical data attached was derived an equivalent method. All changes occurring in the character of the material (i.e., change 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.	Certification Signature
Name (Print): Pedro Soto Date: 6/5/2020	
Title: Planning Director	Aulin.M
Company: City of Lawrence	



EZ Profile™ Addendum

WA	STE	MAN
4	7	Oı

Only complete this Addendum if prompted by responses on EZ or to provide additional information. Sections and question no EZ Profile TM .	
C. MATERIAL INFORMATION	
Describe Process Generating Material (Continued from page 1):	If more space is needed, please attach additional page
Material Composition and Contaminants (Continued from page 1):	If more space is needed, please attach additional page
5.	
6.	
7.	
8.	
9. Total d	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™ f 1. EPA Hazardous Waste a. Please list all USEPA listed and characteristic waste code numbers:	orm (page 1) need to be answered here.
b. Is the material subject to the Alternative Debris standards (40 CFR 268. c. Is the material subject to the Alternative Soil standards (40 CFR 268.49 d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? → If Yes, please check one of the following: □ Waste meets LDR or treatment exemptions for organics (40 CFR □ Waste contains VOCs that average <500 ppmw (CFR 264.1082)? 2. State Hazardous Waste → Please list all state waste codes:)? → If Yes, complete question 4.
3. For material that is Treated, Delisted, or Excluded → Please indicate the ca	ategory below:
	261.4 → Specify Exclusion:
	us Waste → If checked, complete question 4.
4. Underlying Hazardous Constituents → Please list all Underlying Hazardous	·
5. Industries regulated under Benzene NESHAP include petroleum refineries, cher	
a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionr	
b. Does this material contain benzene?	☐ Yes ☐ I
1. If yes, what is the flow weighted average concentration?	ppm
c. What is your facility's current total annual benzene quantity in Megagrar	ns? □ <1 Mg □ 1-9.99 Mg □ ≥10 N
d. Is this waste soil from a remediation?	☐ Yes ☐ I
1. If yes, what is the benzene concentration in remediation waste?	ppm
e. Does the waste contain >10% water/moisture?	□ Yes □ I
f. Has material been treated to remove 99% of the benzene or to achieve	
 g. Is material exempt from controls in accordance with 40 CFR 61.342? → If yes, specify exemption: 	☐ Yes ☐ N
h. Based on your knowledge of your waste and the BWON regulations, do	
treatment and control requirements at an off-site TSDF?	Yes T
6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at	
7. CERCLA or State-Mandated clean up \rightarrow Please submit the Record of Decisi	
the evaluation for proper disposal. A "Determination of Acceptability" may be	
8. NRC or state regulated radioactive or NORM Waste → Please identify Isot	opes 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 a	dditional page:
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	Total composition must be equal to or greater than 100%	≥100%
DECLII ATORV INFORMATION		
. REGULATORY INFORMATION . EPA Hazardous Waste		
a. Please list all USEPA listed and characteristic waste code number	ors (Continued from page 2):	
d. Flease list all OSELA listed and characteristic waste code number	:13 (Continued Horn page 2).	
. Form Code:		
. Source Code:		
. Jource Code.		



Additional Profile Information

Profile Number:	
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F. SHIPPING AND DOT INFORMATION

4. USDOT Proper Shipping & Technical Name (Continued from page 1):

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49.	□ N/A
50.	□ N/A
51.	□ 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") Notification ¹ 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,

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 (<u>Lombard.Chris@epa.gov</u>)
MassDEP NERO, RTN: 3-18126 (<u>Joanne.Fagan@state.ma.us</u>)
Leslie Lombardo, GEI (<u>LLombardo@geiconsultants.com</u>)
File

Attachment 1, PCB Approval Conditions Former Tombarello Property Lot 1, Lawrence, MA Page 1 of 4

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.

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".

Attachment 1, PCB Approval Conditions Former Tombarello Property Lot 1, Lawrence, MA Page 2 of 4

- 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.

Attachment 1, PCB Approval Conditions Former Tombarello Property Lot 1, Lawrence, MA Page 3 of 4

- 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.

Attachment 1, PCB Approval Conditions Former Tombarello Property Lot 1, Lawrence, MA Page 4 of 4

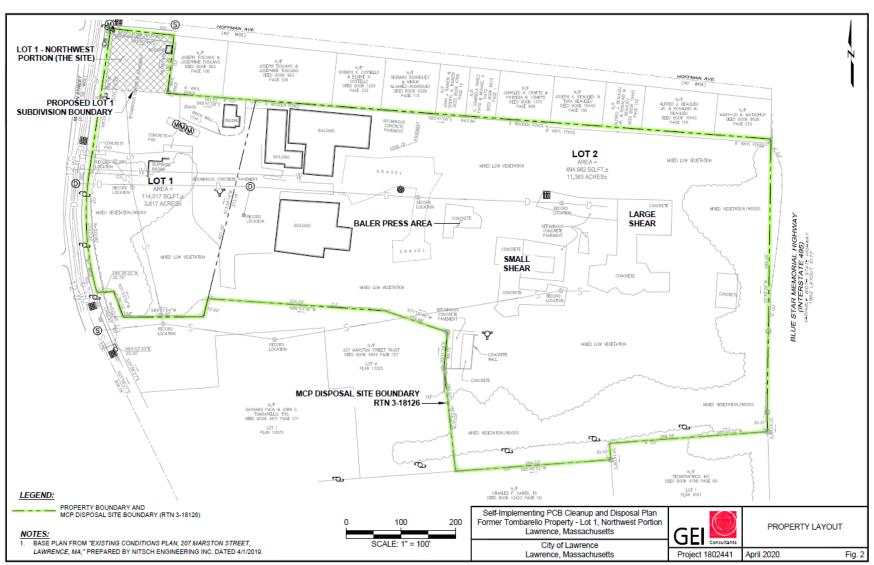
19. Approval for these activities may be revoked, modified or otherwise altered: if EPA finds a violation of the conditions of this Approval or of 40 CFR Part 761, including EPA's PCB Spill Cleanup Policy, or other applicable rules and regulations; or, if EPA finds that these activities pose an unreasonable risk of injury to health or the environment.

RECORDKEEPING AND REPORTING CONDITIONS

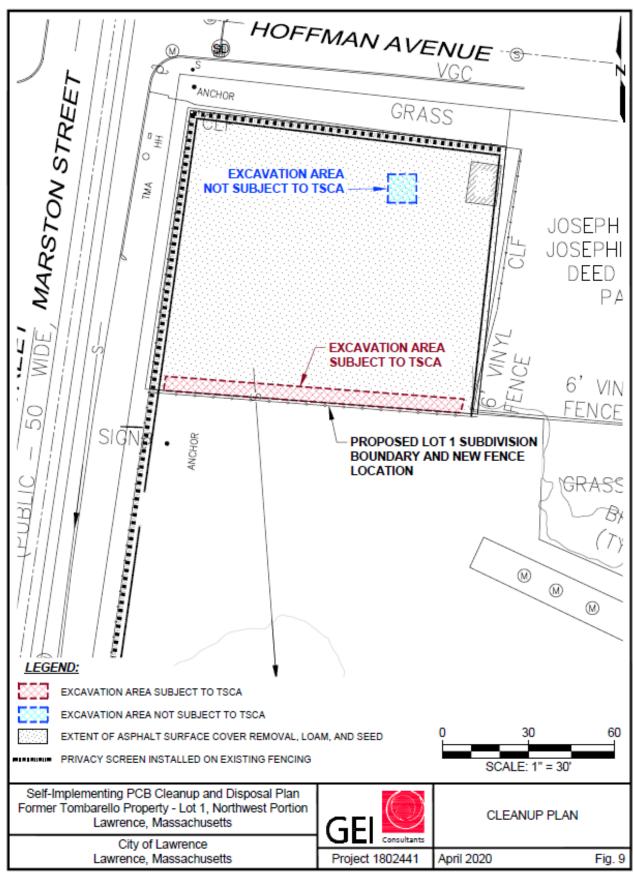
- 20. The City shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the cleanup and the analytical sampling shall be established and maintained by the City in one centralized location 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.



\\gelconsulta B:\Working\LAWRENCE, CITY OF\1802441 Former Tombarello\l00_CAD\Figures\SiP\1802441-02.dwg - 3/17/2020



 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 Project Manager
781.721.4016 cell: 339.221.3551

LESLIE A. LOMBARDO, P.E.

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)



Time

CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Ph: 205-652-9721

Inbound

Reprint Ticket# 37674

Gross

86040 lb*

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Vehicle# NA Ticket Date 07/14/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination Grid

PO# Scale

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Operator

Comments

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CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Ph: 205-652-9721

Inbound

Reprint Ticket# 37675

Gross

78620 lb*

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Vehicle# NA Ticket Date 07/14/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination Grid

PO# Scale Time Operator

In 07/14/2020 10:24:32 Out 07/14/2020 10:24:32 36400 lb* Tare MANUAL WT awalke13 42220 lb 21.11 awalke13 Net

* Manual Weight Tons

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	21.11 1.00 21.11	Each				

Total Tax Total Ticket

Driver`s Signature

CHARLE.
CAAMI

oved. OMB No. 2050							
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GDI							
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Print or type. UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number	Form Approved. OMB No. 2050-003						
(Continuation Sheet)	22. Page	2 23. 110	0652	45/L	6BF		
24. Generator's Name	<u> </u>	3		, , , ,	00-		
CITY OF LAWRENCE 207 MARSTON STREET							
5. Transporter Company Name			U.S. EPA ID	Number	***************************************		
CSX TRACNSPORTATION INC.			1		006921340		
6. Transporter Company Name	LWAY		U.S. EPA ID Number ALR000046706				
7a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,	28. Cont	ainers	20 Total 20 Unit				
M and Packing Group (if any))	No.	Туре	Quantity	Wt./Vol.	31. Waste Codes		
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FURX 322423							
2. Special Handling Instructions and Additional Information							
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3. Transporter Acknowledgment of Receipt of Materials rinted/Typed Name Sign	ature			<u> </u>	Month Day Yea		
44. Transporter Acknowledgment of Receipt of Materials Printed/Typed Name Sign	ature				Month Day Yea		
Sign Sign					Jay rea		
5. Discrepancy							
6. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal,				ì			
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Please print or type.			Form Approved. OMB No. 2050-0039						
1	UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number MADDITION 104 25 23 29			22. Page 3	23. Manife	fest Tracking Nu OO6 S	umber		
	24. Génerator's Name CITY OF LAWRE 207 MARSTON S LAWRENCE	ENCE STREET					and the state of t		
	OF Tennesides 3 Company Name	HEMICAL WASTE MANAGE	EMENT, IN	NC.		U.S. EPA ID	ALD	D0006224	484
1	26. Transporter Company Name					U.S. EPA ID	Number		AND DESCRIPTION OF THE PERSON
	27a. 27b. U.S. DOT Description (including Proper Shi HM and Packing Group (if any))	ipping Name, Hazard Class, ID Number,		28. Containers No. Type		29. Total Quantity	30. Unit Wt./Vol.	31. W	aste Codes
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YI.	35. Discrepancy								
FACIL	<u> </u>								
ATED	36. Hazardous Waste Report Management Method C	Codes (i.e., codes for hazardous waste treatmen	ent, disposal, and recycling systems)						
DESIGNATED FACILITY	<u> </u>								
		1	,,,	Di	COLOMAT	EN EACH IT	TO EP	Ale e-MA	NIFEST SYSTEI
EP/	PA Form 8700-22A (Rev. 12-17) Previous edition	is are obsolete.		DE	SIGNATE	10 PAGILIT	TIVEF	A 3 Crimo	ALEGI OLOIE

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CWM, THC EMEALE	556623 *****	Page - 1
Date/Time In 7/14/20 11:59		
Load Type Dumps Federal EPA ID ALD0006224		** WEIGHT SUMMARY **
Transporter CHENICAL WASTE NEWT INC		Gross 78620.00
ENELLE		Tare 3 (944) .00
		net 114 AA 100
Truck Number 653473 Trailer/Contar #1 707066 #2 #3		Adj. Net 19,150Kg
Rept Doc Document Profile Profile Generator Cat Cat Total t	DCS Sched Federal EPA	
Ln# Ln# Number Sales Invoicing Customer # Code Quan.	Units PCB Cat Waste Status	ADEN 4
1 1 006524516GBF 406412AL CITY OF LAWRENCE 1 DT 32535.00 H	Kilogram Y PLFB KS Undeterminable	053122-0031
LAWRENCE NA SUBCC Value	- RA	
Doc Seq # 1 EME W L FRENCH ENCAVATING CORP P.O. Num		COD Reg'd
>51% OR <51% DEBRIS (CIRCLE)		
PREFILLED VAULT Y OR W (CIRCLE)		
>51% OR <51% NAC 10% INSPECTION (CIRCLE)		
BULK NATERIAL ONLY:		
SAMPLED/INSPECTED FREE LIQUIDS D SELECT MATERIAL/HON-SELECT MATERIAL WIND DISPERSAL		*
SELECT MATERIAL/NUM-SELECT MATERIAL WIND DISPERSAL	MATERIAL? YES / NO	
PHYSICAL DESCRIPTION OF WASTE:	SAMPLER/APPROI	/AL_
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CROSS CLASSICS CO.		
SPOT SAMPLE: BZ0- 1 PHYS. DESCRIPTION		
RAD. SCREEN POS NEG 1		
IGN. SCREEN POS NEG	在16万里在 2000年,第二日本第二日本	
H20 SOL. S F PT/SOL. 1 H20 RXM/TEMP. INITIAL MO RXM REACTS 1		
H20 RNM/TEMP, 5MIM. NO RXM REACTS		
ph (PAPER)		
CM_SCREEN + - (PRUSSIAN BLUE)		
CH SCREEN + - (CYANTESHO)		
SULFIDE SCREEN + -		
ADDITIONAL ANALYTICAL RED'D? Y N		
DESCRIBE:		
PCB CONC. (PPN) SULFIDE (9030)	STATE OF STA	
XH20 BY KF CYANIDE (9010C) TAB WASTE Y		
PAINT FILTER TEST/ P F SPEC. GRAVITY BHZ CONC.	PPN	
COMMENTS: (SAFETY/OPERATIONAL)		
COMPAT. TEST W/OK RXN		
OR BAN		
ADD'L SPOT SAMPLE ATTACHED? Y N		
DISPOSAL NETHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5	SM1-PTA R-PTN OTHER	
P-ST-5/PT ST-8 ST-8/PT MIC MAC (MAC IMSPECT) F INC SP-VS PCB-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% BUS		
BE RETURNED TO LAB AND PLACED ON HOLD.		
RELEASED FOR DISPOSAL BY: DATE:		



CWM

Ph: 205-652-9721

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier Vehicle# NA Ticket Date 07/14/2020 Payment Type Credit Account Container Manual Ticket# Driver Route Check# Billing# 0000688

Hauling Ticket# Destination

PO#

Time 07/14/2020 10:26:16 MANUAL WT In Out 07/14/2020 10:26:16

Scale Operator awalke13

awalke13 * Manual Weight

Grid

Inbound 79560 lb* Gross 32340 lb* Tare

Reprint

Volume

Ticket# 37677

47220 lb Net Tons 23.61

Comments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
2	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	23.61 1.00 23.61	Each				

Total Tax Total Ticket

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.

6-27-2020

18-1

Consignee

006524503

Weigher

FULX 322473

Weighed on the Scales

Providence & Worcester Railroad Co.

382 Southbridge St. Worcester, Mass 01610 (508) 755-4000

	Ple	ase print or type.											
	1	UNIFORM HAZARDOUS WASTE MANIFEST			2. Page 1 of	3. Eme	ergency Respons	se Phone	4. Manifes	For Tracking	MApprove 245	d. OMB N	o. 2050-003
		5. Generator's Name and Mailin	MAD019426238 ng Address		1 3	Conne	(800)4	24-930	0 0	000	245	U3 (GBF
		CITY OF LA	AWRENCE (ATTN:PEDF	RO SOT	0)	Genera	IOI'S SITE Address	s (if different	than mailing addre	ess)			
		207 MARST	TON STREET		-,								
-		Generator's Phone:	E (978)820-3501			ř							
	П	6. Transporter 1 Company Name	(8/8/02U-35U1										
	П	GOULET :	TRUCKING INC.						U.S. EPA ID	Number			
-	П	7. Transporter 2 Company Name	e e			-				MA(230006	6038	
	Ш	PROVIDE	NCE & WORCESTER RAIL	BOAR					U.S. EPA ID I	Number			
-1	Ш	8. Designated Facility Name and	d Site Address	RUAD						MAI	005902	0834	
1	Ш		CHEMICAL W	VASTE M	ANAGE	EN-EN	T INC		U.S. EPA ID I	Number			
	П		HIGHYVAY 17	NORTH	. MILE	MARI	(FR 183						
-	Н	Facility's Phone (205) 852-9	9721 EMELLE AL 3	5458					i u	ALD	000622	464	1
1	П	9a. 9b. U.S. DOT Description	in (including Proper Shipping Name, Hazard Class	s, ID Number.			10. Contain	iore.	Strate in				
	Н	HM and Facking Group (if an	19))		7	ı	No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Cod	es
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Ш	1	4. Special Handling Instructions of	and Additional Info				1 1 2			5		AF I	
Ш	ı	OUT OF SERVICE	08412AL OUT OF SERVIC EDATE:08/19/2020	E DATE:	:06/19/2	020 (CWM Rec	ord De	ot please	mail th	a facilit		
П							manife	est cop	y to Attn: Do. 14 Sterl	an Wa	Ish W.	y to ge L. Frer	nerator
П	L	ERI PROVIDER :	CHEMTREC (CONTRACT)	CCN241	17)		Excavati	ng Con	o. 14 Steri	ing Rd.	Billerio	ca, MA	.01862
П	15	 GENERATOR'S/OFFEROR'S marked and labeled/placarded 	S CERTIFICATION: I hereby declare that the cond, and are in all respects in proper condition for tra	ntents of this co	nsignment are	fully and	accurately descr	ribed above b	ov the proper shine	ning name	and are close	ified pasts	
П		Exporter. I certify that the confi	tents of this consignment conform to the town of			intorrid	donar and nadon	ai governine	ital regulations. If	export ship	nent and I ar	n the Prima	ged, ry
П	G	I certify that the waste minimizenerator's/Offeror/Printed Typed	Zauon statement identined in 40 CFR 767 7/(a) (if	f I am a large qı	uantity genera	tor) or (b)	(if I am a small o	wantity gene	rator) is true.				
Ш	1	JI/ III JI JOO	So To		Signat	ure	/// /	1	1		Month	n Day	Year
\ <u>\</u>	16	International Shipments	70/0	-			Mul	NI	1		16		20
I, L	1	ansporter signature (for exports o	Import to U.S.	Ex	port from U.S.		Port of entry/	exit:			1.09	100	20
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NS	Tra	nsporter 2 Printed/Typed Name	- dar		Signati		my	1/1	2		6	23	20
TRANSPORTE	L,	Dearl (flund		I			1/	11-1		Month	Day	Year
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틹	18b	. Alternate Facility (or Generator)				manne	St Noise Nu	ilibel. 7	U.S. EPA ID Num	ber			
덩													
		ility's Phone: Signature of Alternate Facility (or	or Connector)					- 1					
A		Organization of Facility (Of	(Generator)								Month	Day	Year
DESIGNATED FACILITY	19.1	Hazardous Waste Report Manage	ement Mathod Codos /i.a. codos for hand										
딺	1.	11121	ement Method Codes (i.e., codes for hazardous w	vaste treatment		d recycling	g systems)						
7	1	4152			3.				4.				
1	20. [Designated Facility Owner or Open	erator: Certification of receipt of hazardous materia	als covered by	the manifest	vcont oc	noted in He 40						
	Print	ed/Typed Name	1 1	outside by	Signatu		niced in item 18a		1	,	Month	D	Ven
↓		1ammy	Ihrash		M	M	M- 11	1	110	1	Month 17	Day	Year 7
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		•					7		CILITIO	LLW 2 6	-mANIFE	31318	MIL

Please print or type. Form Approved. OMB No. 2050-0039 22. Page **2** UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number 23. Manifest Tracking Number 006524503 6BF (Continuation Sheet) MAD019428238 24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA MA 01841 3 Company Name U.S. EPA ID Number 25. Transporter _ CSX TRACNSPORTATION INC. FLD006921340 U.S. EPA ID Number 26. Transporter __ __ Company Name ALABAMA AND GULF COAST RAILWAY ALR000046706 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 28. Containers 27a. HM 29. Total 31. Waste Codes and Packing Group (if any)) No. Туре Quantity Wt./Vol. GENERATOR FURX 322423 33. Transporter
Printed/Typed Name

34. Transporter
Printed/Typed Name 33. Transporter ____ _Acknowledgment of Receipt of Materials Signature Month Day _Acknowledgment of Receipt of Materials Signature Month Day 35. Discrepancy DESIGNATED FACILITY 36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA'S e-MANIFEST SYSTEM

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number	22. Page 2 23. Manifest Tracking Number 006524503 66F								
24. Generator's Name MAD818428238	of 3		1000	-/-					
CITY OF LAWRENCE 207 MARSTON STREET 2 LAWRENCE MA 01941	100					H			
25. Transporter 3 Company Name CSX TRACNSPORTATION INC.			U.S. EPA ID		006921	240			
Of Transporter V Company Name			U.S. EPA ID	Number					
ALABAMA AND GULF COAST RA		Т		ALF	2000046	3706			
17a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Contain No.	Type	29. Total Quantity	30. Unit Wt./Vol.	31. W	Vaste Codes			
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Transporter Acknowledgment of Receipt of Materials inted/Typed Name Sign	ature				Monti	h Day Year			
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Hazardaus Waste Poport Management Melhod Codes (1)	- d P								
. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal	and recycling systems)			ſ					

CWH, INC. - EMELLE Page - 1 Date/Time In 7/14/20 11:22 ** WEIGHT SUMMARY ** Load Type Dumps Federal EPA ID ALD000622464 Gross 79560.00 Transporter CHEMICAL WASTE MGHT INC Tare 32340.00 ENELLE AL Net 47220 .00 Truck Number 3058 Trailer/Contar #1 707227 #2 #3 Rcpt Doc Document Profile Profile Generator Cnt Cnt Total W DCS Sched Federal EPA Ln# Ln# Number Sales Invoicing Customer # Code Quan. V Units PCB Cat Waste Status 1 1 006524503GBF 406412AL CITY OF LAWRENCE 1 DT 31719.00 K Kilogram Y PLFB KS Undeterminable 053122-0031 LAWRENCE NA SUBCC Value - NA Doc Seq # 1 EME W L FRENCH EXCAVATING CORP P.O. Num COD Reg'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 NATERIAL/NON-SELECT NATERIAL WIND DISPERSAL NATERIAL? YES / NO PHYSICAL DESCRIPTION OF WASTE: SAMPLER/APPROVAL SPOT SAMPLE:___B20-I PHYS. DESCRIPTION RAD. SCREEN POS NEG IGN. SCREEN POS NEG H20 SOL. S F PT/SOL H20 RXW/TEMP. INITIAL NO RXW REACTS H20 RXH/TEMP. SHIN. NO RXH REACTS SULFIDE SCREEN + -ADDITIONAL ANALYTICAL REG'D? Y H DESCRIBE: SULFIDE (9030) PCB CONC. (PPN) XH20 BY KF CYANIDE (9010C) TAB WASTE Y N PAINT FILTER TEST/ P F SPEC. GRAVITY BNZ CONC. COMMENTS: (SAFETY/OPERATIONAL) COMPAT. TEST W/ OK RXW 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 SM1-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT MIC NAC (NAC INSPECT) F INC SP-VS PCB-NAC H-NAC

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8
INDICATOR PARAMETER VILL BE CIRCLED

RELEASED FOR DISPOSAL BY:

BE RETURNED TO LAB AND PLACED ON HOLD.



CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Ph: 205-652-9721

Operator Inbound Gross 92320 lb*

Reprint Ticket# 37678

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Carrier CWM Vehicle# NA Ticket Date 07/14/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination Grid

PO#

07/14/2020 10:27:28 MANUAL WT Tare 31520 lb* awalke13 In Out 07/14/2020 10:27:28 Net Tons 60800 lb awalke13 30.40

* Manual Weight Comments

Scale

Rate Tax Amount Origin Product LD% Qty UOM ______ TSCA DSP/TON - PCB REMED 100 30.40 Tons
MFE-e-Manifest (Landfill 100 1.00 Each
TTN-TRANSPORTATION PER T 100 30.40 Tons

> Total Tax Total Ticket

Ple	ase	e print or type.						For	m Annroyed (OMB No. 2050-003
1	ı	UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST	2. Page 1 of	3. Em	ergency Response		4. Manifest	Tracking I	Number	000
	5.	WASTE MANIFEST MADD18426238 Generator's Name and Mailing Address	3	Ganor	(800)4:	24-930	than mailing address	545	1048	GBF
		CITY OF LAWRENCE (ATTN:PEDRO SO)	го)		noi 5 Oile Address	(ii diliciciii	man maning addres	55)		
1	l	207 MARSTON STREET								
I		LAWRENCE MA 01841 Generator's Phone: (978)620-3501	1							
1	6.	. Transporter 1 Company Name		+			U.S. EPA ID N	Number		***************************************
1	L	CHEMICAL WASTE MANAGEMENT, INC.					ĺ	ALC	00006224	64
1	7.	. Transporter 2 Company Name				-	U.S. EPA ID N	lumber		
1	_	D					1			
ı	0.	Designated Facility Name and Site Address	ź S			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U.S. EPA ID N	lumber		
1		CHEMICAL WASTE								
ı	١.	HIGHWAY 17 NORT editiys Phoné 205)852-9721 EMELLE AL 35459	n, MILE N	ner.	NEK 103			ALC	00008224	64
١		acinty's Prione, 200 job2-67 2 f		+						
		 bb. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any)) 	τ,		10. Contain		11. Total	12. Unit	13. W	aste Codes
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GENERATOR		" RQ,UN3077,ENVIORONMENTALLY HAZARDI SUBSTANCE, SOLID,NOS.(POLYCHLORINA)	UUS IED		001	DT	mm	K	MA02	
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П	14.	FURK 322423 Special Handling Instructions and Additional Information		+						
Ш		1.APPROVAL#408412AL OUT OF SERVICE DAT	E:06/19/2	020	CWM Red	cord D	ept. please	mail t	he facility	to generato
Ш		OUT OF SERVICE DATE:06/19/2020 Weight is estimated in KG.			manii	est co	ou to Attn. I	Dan W	Jaich W I	French a, MA.01862
Ш		ERI PROVIDER : CHEMTREC (CONTRACT CCN2)	4117)		LACEVAL	n ig co	ip. 14 oter	mig rei	d. Dilleric	a, IVIA.U1802
ll	15.	GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this	s consignment are	e fully a	ind accurately desc	cribed abov	e by the proper ship	ping name	e, and are classif	ied, packaged,
Ш		marked and labeled/placarded, and are in all respects in proper condition for transport acc Exporter, I certify that the contents of this consignment conform to the terms of the attach	ed EPA Acknowler	Inment	of Consent			f export sh	ipment and I am	the Primary
Н	0-	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a language)	ge quantity genera	ator) or	(b) (if I am a small	quantity ge	nerator) is true.			
	Gel	nerator's/Offeror's Printed/Typed Name	Signa	ture					Month	Day Year
1	16	International Shipments		+						
=1		Import to U.S.	Export from U.S	5.	Port of entry					
:		Transporter Acknowledgment of Receipt of Materials		+-	Date leaving	J U.S.:				
:		nsporter 1 Printed/Typed Name	Signat	ture				- 2	Month	Day Year
TIND DIVINI		Ruan Buchanan	1 /	-	an B	\			7	14 20
	Trai	Insporter 2 Printed/Typed Name	Signal	ture		WC//	W		Month	Day Year
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	18.	Discrepancy								
١	18a	a. Discrepancy Indication Space Quantity Type			Residue	155	Partial Rejec	tion		Full Rejection
١	Λ	old read t						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	i di riojodion
ŀ	195	D. Alternate Facility (or Generator)		Ma	nifest Reference N	lumber:				
	100	. Alternate Facility (of Generator)					U.S. EPA ID Nu	mber		
	Eac	hilitr's Phone:					1			
1		cility's Phone: . Signature of Alternate Facility (or Generator)		+		-			Month	Day Year
		e ee ee							Worth	l I
1	19.	Hazardous Waste, Report Management Method Codes (i.e., codes for hazardous waste trea	tment, disposal a	nd rec	vcling systems)					
	1.	1 00 0	3.	1.00	g vjetomoj		4.			
		41.00								
	20.	Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered	ed by the manifest	excep	t as noted in Item 1	18a	1.			
	Prin	nted/Typed Name	Signat	4	,		//	1	Month	Day Year
1		iaininy invash	$-\alpha$	12	mm	40	Xhia	A	/	14 20
A	For	rm 8700-22 (Rev. 12-17) Previous editions are obsolete.	9		DESIG	MATED	FACILITY T	O EPA'	s e-MANIF	EST SYSTEM

overweight (5)

CWN, INC. - ENELLE ***** Receipt # 556624 ***** Page - 1 Date/Time In 7/14/20 12:05 ** WEIGHT SUMMARY ** Load Type Dumps Federal EPA ID ALD000622464 Tare 31,550.00 Transporter CHEMICAL WASTE MGMT INC Het 60,800 .00 ENELLE Truck Number 3057 Trailer/Contar #1 707230 #2 #3 Ropt Doc Document Profile Profile Generator Cat Cat Total W DCS Sched Federal EPA Lof Lof Number Sales Invoicing Customer & Code Quan. V Units PCB Cat Waste Status 1 1 006451046GBF 406412AL CITY OF LAWRENCE 1 DT 215519 Kilogram Y PLFB KS Undeterminable 053122-0031 LAWRENCE MA SUBCC Value - NA Doc Seq # 1 EME W L FRENCH EXCAVATING CORP P.O. Num COD Reg'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?
SELECT MATERIAL/NON-SELECT MATERIAL?
WIND DISPERSAL MATERIAL? YES / HO YES / NO PHYSICAL DESCRIPTION OF WASTE: SAMPLER/APPROVAL SPOT SANPLE: 820-RAD. SCREEN POS NEG IGN. SCREEN POS NEG H20 SOL. S F PT/SOL I PHYS. DESCRIPTION H20 RXN/TEMP, INITIAL NO RXN REACTS H20 RXN/TEMP. SMIN. NO RXN REACTS ph (PAPER)
CM_SCREEN + - (PRUSSIAN BLUE) ____I CH SCREEN + - (CYANTESMO) SULFIDE SCREEN + -ADDITIONAL ANALYTICAL REG'D? Y N DESCRIBE: PCB COMC. (PPN) SULFIDE (9030)
2H20 BY KF CYANIDE (9010C) NH20 BY NF CYANIDE (9010C) TAB WASTE Y N
PAINT FILTER TEST/ P F SPEC. GRAVITY BNZ CONC. PPN COMMENTS: (SAFETY/OPERATIONAL) COMPAT. TEST W/ OK RXM 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 MIC NAC (NAC INSPECT) F INC SP-VS PCB-HAC 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:



CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Ph: 205-652-9721

Inbound

Reprint Ticket# 37681

Gross

78780 lb*

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Vehicle# NA Ticket Date 07/14/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688

Destination Grid

PO#

Scale

Operator In 07/14/2020 10:31:07 Out 07/14/2020 10:31:07 36340 lb* Tare MANUAL WT awalke13 awalke13 Net

42440 lb 21.22 * Manual Weight Tons

Comments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	21.22 1.00 21.22	Each				

Total Tax Total Ticket

Form Approved, OMB No. 2050-0039

	UNIFORM HAZARDOUS	1. Generator ID Number	2. Page 1 of	3. Emerge	ency Response P	hone	4. Manifest II	657	451	3 GF	F
ÎΙ	WASTE MANIFEST	MAD019426238	3		(800)42	4-9300	an mailing address		. 102	• GL	"-
100		ng Address AWRENCE (ATTN:PEDRO SOTITION STREET)		enerator	s Site Address (II	allierent un	an mailing address	,			ès
П	Generator's Phone:						U.S. EDAIDAI				
11	6. Transporter 1 Company Na	me (978)h70=S:IIII					U.S. EPA ID N				
П		TRUCKING INC.					U.S. EPA ID N		300066	038	
H	7. Transporter 2 Company Na	me					U.S. EPA ID IN				
П	PROVID	ENCE & WORCESTER RAILROAD				-	U.S. EPA ID N		059020	834	
11	Designated Facility Name a	and Site Address			- 1110		U.S. LI AID I	umoor			
	Facility's Phone (205)652	CHEMICAL WASTE HIGHWAY 17 NORT EMELLE AL 35459	MANAGE H, MILE I	MEN	ER 163		1	ALD	0006224	164	
П	OL LLC DOT Descrip	otion (including Proper Shipping Name, Hazard Class, ID Number	r,		10. Containe	ers	11. Total	12. Unit	13. V	Vaste Codes	
	9a. and Packing Group (i				No.	Type	Quantity	Wt./Vol.			
GENERATOR —	1 SUBSTAN	77,ENVIORONMENTALLY HAZARDI ICE, SOLID,NOS.(POLYCHLORINAT AL SOLID),9.PGIII	OUS TED 4064	12AL	001	DT	19251 31,156	к	MA02	1	
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П	BAL	x 9597									
		ions and Additional Information # 408412AL OUT OF SERVICE DA	TT.08/40	2020	CAMP	operal C	ant place	a mail	the facili	ity to as	nerator
	1.APPROVAL	#408412AL OUT OF SERVICE DA VICE DATE:08/19/2020	(IE:00/19/	2020	_ mani	fest co	py to Attn: orp. 14 Ste	Dan Y	Valsh W.	L. Fren	nch na
	\A/oinht is act	imated in KG. ER:CHEMTREC (CONTRACT CCN)	24117)		Excava	ting Co	orp. 14 Ste	ning K	a. Biller	ica, IVIA	.01002
			his consignment	are fully a	nd accurately des	scribed abo	ve by the proper sh	nipping nan	ne, and are cla	ssified, packa	ged,
	marked and labeled/pla	acarded, and are in all respects in proper condition for transport a	according to appli shed FPA Acknow	vedament	of Consent	onal govern	mentai regulations	. If export s	hipment and I	am the Prima	iry
	I certify that the waste-	minimization statement identified in 40 CFR 262.27(a) (if I am a la	arge quantity ger	nerator) or	(b) (if I apr a sma	all quantity g	enerator) is true.			-th Day	Voor
	Generator's/Offeror's Printed	Typed Name	Się	nature	11/6	/			Mod		Year 20
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TRANSPOR	Dave	of Trust			Und	0	Girl			6 24	20
1	18. Discrepancy										2 11
II	18a. Discrepancy Indication	Space Quantity Type		[Residue		Partial Re	ejection		Full Rej	ection
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E	18b. Alternate Facility (or Ge	sierator)									
JA.	Facility's Phone:						Ĩ				
1	Facility's Phone: 18c. Signature of Alternate	Facility (or Generator)							M	onth Da	Year
DESIGNATED FACILITY							<u> </u>				
2	19. Hazardous Waste Repo	rt Management Method Codes (i.e., codes for hazardous waste t	treatment, dispos	al, and re	cycling systems)						
JE S	1. 11.00	2.	3.				4.				
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		ner or Operator: Certification of receipt of hazardous materials co			ept as noted in Ite	m 18a	. ,		M	onth Day	Year
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print or type. NIFORM HAZARDOUS WASTE MANIFEST	21. Generator ID Number	22.	Page 2	23. Manife	st Tracking Nur 10652	nber U.T.	3	GBF	
(Continuation Sheet)	MAD019426230		of 3		0600	101		00	
4. Generator's Name CITY OF LAWRE	NCF								
207 MARSTON S	STREET								_
LAWRENCE	MA 01841				U.S. EPA ID		กดสดว	1340	
5. Transporter Company Name CS	X TRACNSPORTATION INC.				U.S. EPA ID		00082	1340	_
6. Transporter 4 Company Name	ABAMA AND GULF COAST R	ALWAY			1		00004	16706	
			28. Contain	iers	29. Total	30. Unit	31	. Waste Codes	
7a. 27b. U.S. DOT Description (including Proper Sham) and Packing Group (if any))	ipping Name, Hazaid Class, ID Number,		No.	Туре	Quantity	Wt./Vol.	31	. Waste oodes	
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32. Special Handling Instructions and Additional In	formation								
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33. TransporterAcknowledgment of Rece	ipt of Materials	Signature						Month	Day
Printed/Typed Name									
34. Transporter Acknowledgment of Reco	eint of Materials							Month	Day
Printed/Typed Name 34. Transporter Acknowledgment of Reco		Signature							Juy
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35. Discrepancy									
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36. Hazardous Waste Report Management Meth	od Codes (i.e., codes for hazardous waste treatment	, disposal, and re	cycling system	ms)					
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_	e print or type.				Form A	pproved. OMB No. 2050-0039
	INIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number - (Continuation Sheet)	22. Page 3		st Tracking Nur 1065	nber	13 6BF
	4. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET	or .				
2	5. Transporter 5 Company Name CHEMICAL WASTE MANAGEMEN	T, INC.		U.S. EPA ID N		000622464
2	6. Transporter Company Name			U.S. EPA ID N	lumber	
	7a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Contai	iners Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
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	C ACX 4581 9390 12. Special Handling Instructions and Additional Information					
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RANS	34. Transporter Acknowledgment of Receipt of Materials Printed/Typed Name Sign	nature				Month Day Year
Н	35. Discrepancy					
CILIT						
DESIGNATED FACILITY	36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposa	and regulating systems				
IGNA	vo. nazaruovo masia repuit managamen maniou codes (i.e., codes idi nazaruous wase deatment, disposa :	i, and recycling systems)				
DES	· 1	,				14
EPA	Form 8700-22A (Rev. 12-17) Previous editions are obsolete.		SIGNATED	FACILITY	TO EPA's	e-MANIFEST SYSTEM

CWH, INC EMELLE	eee Receipt	# <u>556638</u> *****	Page -
Date/Time In 7/14/20 16:06 Load Type Dumps Federal EPA Transporter CHEMICAL WASTE MGHT INC EMELLE AL	ID ALD000622	2464	Gross 78780.0 Tare 36340.0 Net 43440.0
Truck Number 653473 Trailer/Contar #1 707066 #2	#3		Adj. Net OSOLGE
Rcpt Doc Document Profile Profile Generator Cnt Cn Ln# Ln# Number Sales Invoicing Customer # Co 1 1 006524513G8F 406412AL CITY OF LAWRENCE 1 D	T 31156.00	V Units PCB Cat Waste Status K Kilogram Y PLFB KS Undeterminable	19251 k
LAWRENCE HA Doc Seq # 1 EME W L FRENCH EXCAVATING CORP >51% OR <51% DEBRIS (CIRCLE) PREFILLED VAULT Y OR W (CIRCLE) >51% OR <51% NAC 10% INSPECTION (CIRCLE) BULK MATERIAL ONLY:	SUBCC Valu	ile - IIA	COD Reg'd
SAMPLED/INSPECTED	FREE LIQUIDS	DETECTED? YES / NO	
SELECT NATERIAL/NON-SELECT NATERIAL	WIND DISPERSA		
PHYSICAL DESCRIPTION OF WASTE:		SAMPLER/APPR	OVAL
SPOT SAMPLE: B20- I PHYS. DESCRIPTI RAD. SCREEN POS NEG I IGN. SCREEN POS NEG H20 SOL. S F PT/SOL. I H20 RXM/TEMP. INXTIAL NO RXM REACTS I H20 RXM/TEMP. SMIH. NO RXM REACTS ph (PAPER) I CM_SCREEN + - (PRUSSIAN BLUE) I CM_SCREEN + - (CYANTESHO) SULFIDE SCREEN + - ADDITIONAL ANALYTICAL REO'D? Y M DESCRIBE:	TON _		
PCB CONC. (PPN) SULFIDE (9030)			
	TAB WASTE Y BNZ CONC.	PPM	
COMPAT. TEST W/ OK RZM			
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 P-ST-5/PT ST-8 ST-8/PT NIC NAC (NAC INSPECT) F INC S 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 LES	P-VS PCB-NAC	P-MAC	
BE RETURNED TO LAB AND PLACED ON HOLD. RELEASED FOR DISPOSAL BY:	TP.		
DA DA DE DE DE DE DE DE	TE:		



CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Ph: 205-652-9721

Inbound

Reprint Ticket# 37689

Gross

85460 lb*

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Vehicle# NA Ticket Date 07/14/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination Grid

PO#

Scale

Operator In 07/14/2020 10:50:18 Out 07/14/2020 10:50:18 31480 lb* Tare MANUAL WT awalke13 53980 lb 26.99 awalke13 Net

* Manual Weight Tons

Comments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100		Tons Each Tons				

Total Tax Total Ticket

Please print or type. Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 006524512 GBF WASTE MANIFEST Generator's Site Address (if different than mailing address) MAD019428238 5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN:PEDRO SOTO) 207 MARSTON STREET MA 01841 Generator's Phone: RENCE 6. Transporter 1 Company Name U.S. EPA ID Number **GOULET TRUCKING INC** MAC300066038 7. Transporter 2 Company Name U.S. EPA ID Number PROVIDENCE & WORCESTER RAIL ROAD

8. Designated Facility Name and Site Address MAD059020834 U.S. EPA ID Number CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 ALD000622464 EMELLE AL 35459 Facility's Phone: 205)852-9721 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) Type Quantity Wt./Vol. 24485 RQ,UN3077,ENVIORONMENTALLY HAZARDOUS GENERATOR 001 DT K SUBSTANCE, SOLID, NOS. (POLYCHLORINATED 408412A BIPHENAL SOLID), 9, PGIII GALX 9597 ns and Additional Information 1.APPROVAL#408412AL OUT OF SERVICE DATE:06/19/2020 CWM Record Dept. please mail the facility to generate 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 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 Generator's/Offeror's Day 106 124 120 INT'L Export from U.S. Import to U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Signature 06 24 2020 Month 6 24 20 18a. Discrepancy Indication Space Residue Partial Rejection Full Rejection Dan Walsh 'orrected 18b. Alternate Facility (or Generator) U.S. FPAID Number 18c. Signature of Alternate Facility (or Generator) Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a vped Name EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number (Continuation Sheet)		22. Page	2 23. Mani	fest Tracking N		pproved. OMB No. 2050-
24. Generator's Name MAD010428238	+	- of	<u>al C</u>	10652	45/2	6BF
CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 01841						
25. Transporter Company Name CSX TRACNSPORTATION INC				U.S. EPA ID		008921340
26. Transporter	RAILWAY	 Y		U.S. EPA ID	Number	000921340
27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,	T	28. Conta	ainers	20.7		000040700
and Packing Group (if any))		No.	Туре	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
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CIBLEX 9597 2. Special Handling Instructions and Additional Information					-	
2. Special Handling Instructions and Additional Information						
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Transporter Acknowledgment of Receipt of Materials inted/Typed Name		-				
	Signature					Month Day Year
5. Discrepancy						
5. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, dispos	and s	na avete				
nous ion inazariorus wasie treatment, dispos	sar, and recycli	ng systems)			1	
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UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number (Continuation Sheet)	22. Page	3 23. Man	ifest Tracking N	umber	Approved. OMB No. 2050
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE		_{of 3} _ <u>/</u>	00657	4512	6BF
25. Transporter Company Name CHEMICAL WASTE MANAGEMEN	NT, INC.		U.S. EPA ID		000000454
26. Transporter Company Name			U.S. EPA ID	Number	000622464
27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Co No.	ntainers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
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Special Handling Instructions and Additional Information					
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Discrepancy					Month Day Year
Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, an	d recycling systems)				
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CWM, INC EMELLE	***** Receipt	# <u>556640</u> *****		Page -
Date/Time In 7/14/20 16:16				AN UPTOUR PROMARY
Load Type Dumps Fede	ral EPA ID ALD8006224	64		** WEIGHT SUMMARY * Gross 85460.0
Transporter CHENICAL WASTE NGHT INC				Tare 31480 .0
ENELLE				Het 520100 .0
Truck Number 3057 Trailer/Contar #1 77228	12 13			Met 53080 .0 Adj. 24485kg.0 Adj. Met 485kg.0
Ropt Doc Document Profile Profile Generator	Cnt Cnt Total	W DCS Sched F	ederal EPA	
Ln# Ln# Number Sales Invoicing Customer	# Code Quan.	V Units PCS Cat W	aste Status	ADEN #
1 1 006524512GBF 406412AL CITY OF LAWRENCE	1 DT 33261.00	K Kilogram Y PLFB KS	Undeterminable	053122-0031
LAVRENCE HA	SUBCC Valu	e - MA		
Doc Seq # 1 EME W L FRENCH EXCAVATING >51% OR <51% DERRIS (CIRCLE)	CORP P.O. Num			COD Reg'd
PREFILLED VAULT Y OR N (CIRCLE)				
>51% OR <51% MAC 10% IMSPECTION (CIRCLE)				
BULK MATERIAL ONLY:				
SANPLED/INSPECTED	FREE LIQUIDS	ETECTED?	YES / NO	
SELECT MATERIAL/NON-SELECT MATERIAL	WIND DISPERSAL	L MATERIAL?	YES / NO	
			163 / RU	
PHYSICAL DESCRIPTION OF WASTE:			SAMPLER/APPRO	VAL_
SPOT SAMPLE: B20- PHYS. I	DESCRIPTION			
RAD. SCREEN POS NEG				
IGN. SCREEN POS NEG				
H20 SOL. S F PT/SOL 1		阿里克尔 斯斯		
H20 RXH/TEMP. INITIAL NO RXH REACTS		BETTER STATE		
H20 RXN/TEMP. SHIN. NO RXN REACTS				
ph (PAPER)				
CN_SCREEN + - (PRUSSIAN BLUE)I				
CN SCREEN + - (CYANTESHO) SULFIDE SCREEN + -				
ADDITIONAL ANALYTICAL RED'D? Y N				
DESCRIBE:				
PCB CONC. (PPM) SULFIDE (9030)				
THE CYANIDE (9010C)	TAR WASTE Y			
PAINT FILTER TEST/ P F SPEC. GRAVITY	BHZ CONC.	PPN		
CONHENTS: (SAFETY/OPERATIONAL)				
COMPAT. TEST W/ORRXN				
ADD'L SPOT SAMPLE ATTACHED? Y N				
DISPOSAL NETHOD: 8 SP ST-3 ST-3/PT P-ST-3 P-ST-3/	PT ST-5 ST-5/PT P-ST-	5 SRI-PTA R-PIN OTHER		
P-ST-5/PT ST-8 ST-8/PT MIC MAC (MAC INSPECT) F				
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 T	O BE LESS THAN 51% MU	57		
BE RETURNED TO LAB AND PLACED ON HOLD.				
RELEASED FOR DISPOSAL BY:	DATE:			



Reprint

Volume

Gross

Ticket# 37691 Ph: 205-652-9721

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM

Ticket Date 07/14/2020 Payment Type Credit Account

Manual Ticket# Route

Hauling Ticket#

Destination

PO# In

Scale Time 07/14/2020 10:52:21 Out 07/14/2020 10:52:21

MANUAL WT

Vehicle# NA Container Driver Check# Billing# 0000688 Grid

Inbound Operator awalke13

Tare Net * Manual Weight Tons

81680 lb* 32320 lb* 49360 lb 24.68

Comments

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	24.68 1.00 24.68	Each				

awalke13

Total Tax Total Ticket

Ple	se pri	nt or type.				Form Approved. OMB No. 2050-0							
1		FORM HAZARDOUS	1. Generator ID Numl		2. Page 1 c	3. Eme	ergency Response		4. Manifest	Tracking N	245	15 _G	RF
	_	nerator's Name and Mailir		0019426238		General	(800)4: tor's Site Address		han mailing addres			0	
П		CITY OF L	AWRENCE	(ATTN:PEDRO	SOTO)								
П			TON STREET										7.
П	Gener	rator's Phone:	E (978)620-	A 01841									
П		nsporter 1 Company Nam	ne (BZO)	3.101					U.S. EPA ID N	Number			
Ш		GOULET	TRUCKING	INC.						MAG	C300066	3038	
Ш	7. Tra	nsporter 2 Company Nam	ie						U.S. EPA ID N	lumber			
П		PROVIDE	NCE & WOR	RCESTER RAILRO	DAD					MAI	0059020	1834	
П	8. Des	signated Facility Name an	d Site Address						U.S. EPA ID N	Number			
				CHEMICAL WAS HIGHWAY 17 N	IORTH, MILE					ALE	000622	464	
П	Facilit	ry's Phone(:205)652-	-9721	EMELLE AL 354	159		LL AL Sc						
П	9a.			nipping Name, Hazard Class, ID	Number,		10. Contain	ners	11. Total	12. Unit	12	Waste Code	
П	НМ	and Packing Group (if a	any))				No.	Туре	Quantity	Wt./Vol.	10.	waste code	•
2	١.,	1. RQ.UN307	7.ENVIOROI	NMENTALLY HAZ	ARDOUS		1 =		22390		LIAGO		
2	'			OS.(POLYCHLOR			001	DT	23488	K	MAD2		
ER			SOLID),9,P	GIII	4064	12AL			J				
GENERATOR		2.											
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		3.						ľ				lv -	
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		GALX 9	9597										11.2
	14. Sr	pecial Handling Instruction		nation		2.75		5.1	A				
П	1	1.APPRÖVAL#	406412AL (OUT OF SERVICE	DATE:06/19	2020	CWM Re	cord D	ept. please	mail f	he facili	ty to ge	nerator
П		OUT OF SERV Wei c ht is estin	ICE DATE:00	1/19/2020			mani	fest co	by to Attn:	Dan V	Valsh W.	L. Frei	nch I
П				C (CONTRACT C	CN24117)		CXCava	ing co	rp. 14 Ster	ınığır.	u. Dilleri	ica, iviz	.01804
П		Company of the second s		I hereby declare that the conte	The second secon	t are fully a	and accurately des	scribed abov	e by the proper shi	ipping nam	e, and are clas	ssified, packa	aged.
П	r	marked and labeled/placa	rded, and are in all resp	pects in proper condition for tran	nsport according to app	cable inte	ernational and natio						
	ľ	exporter, I certify that the control of the control of the control of the certify that the waste min	contents or this consigr imization statement ide	nment conform to the terms of the entified in 40 CFR 262.27(a) (if I	ne attached EPA ACKNO am a large quantity ge	wieagmen enerator) or	r (b) (if I am/a smal	Il quantity qu	enerator) is true.				
П		ator's/Offeror's/Printed/Ty		1000 C 10		gnature	1///	17 -	1		Мод	th Day	Year
1		Frede	Sot	ð	Ī	·	Mul	L N	1		10	6127	129
ب	16. Int	ternational Shipments	Import to U	9	Export from	119	Port of ent	ru/ovit					-
Ē	Trans	porter signature (for expo		O. 11	Export iron	0.0.	Date leavin						
ĸ	17. Tra	ansporter Acknowledgmen	t of Receipt of Materials	ŝ									T
RT	Transp	oorter 1 Printed/Typed Na			S	gnature					Mon	ith Day	Year
TRANSPORT		MATHOL	J TEAR	LSRIN	1		_				- 10	16/24	120Z
ANS	Transp	porter 2 Printed/Typed Na	me /	. ,	S	gnature	1	11	101-	1	Mor	nth Day	Year
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1	18. Dis	screpancy	1	~					2 0	79)			
	18a. D	Discrepancy Indication Spa	ace 🗹 Quantity	, a D.	Туре		Residue		Partial Reje	ection		Full Reje	ection
Ш	M.	1-1-1-00		wt. Per Du		1	115/21	1 12	1				
1	9	rected t		WHIE D	in male	n M	anifest Reference	Number	ω_{-}				_ L Ac.
Ę	18b. A	Iternate Facility (or Gener	ator)						U.S. EPA ID N	lumber			
ᅙ													
O F		y's Phone:	ity (or Consected								T at	-11-	
里	18C. S	ignature of Alternate Facil	ity (or Generator)								Mo	nth Day	Year
SNA			7, 200,000 300										
DESIGNATED FACILITY	19. Ha	azardous Waste Report M	anagement Method Co	des (i.e., codes for hazardous w	vaste treatment, dispos	al, and rec	cycling systems)		- 1.				
ă	-	1122	2		3.				4.				
1		1170											
			r Operator: Certificatio	n of receipt of hazardous materia			pt as noted in Item	18a		٠,,		oth D-	Vaca
		d/Typed Name	& GA	9	3	ignature	1.51		M	1	Mor عرا ر	nth Day	Year
*	4	Move		الم		1	well	1	VIII	1	ئلب	///	1 10
ᇆ	Form	8700-22 (Rev. 12-17)	Previous editions a	re opsolete.			DECL	CMATE	FACILITY T	TO EDA	C A MAM	ICCCT C	VETEM

CVVMI Pléase print or type. Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number 23. Manifest Tracking Number 2 (Continuation Sheet) 006 524515 GBF MAD010426238 24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA MA 01841 25. Transporter ______ Company Name U.S. EPA ID Number CSX TRACNSPORTATION INC FLD006921340 26. Transporter ______ Company Name U.S. EPA ID Number ALABAMA AND GULF COAST RAILWAY ALR000048708 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 27a. 28. Containers 29. Total 31. Waste Codes HM No. Туре Quantity Wt./Vol. GENERATOR 6ACX 9597 32. Special Handling Instructions and Additional Information 33. Transporter _____ Printed/Typed Name Acknowledgment of Receipt of Materials TRANSPORTER Signature Month Day 34. Transporter _ Acknowledgment of Receipt of Materials Printed/Typed Name Signature Month Day 35. Discrepancy 36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

The state of the s	21. Generator ID Number	22. Page 3	23. Mani	fest Tracking N	umber	pproved. OMB No. 2050-
(Continuation Sheet)	MAD010428238		2 0	0652	4513	-6BP
24. Generator's Name CITY OF LAWRE 207 MARSTON S LAWRENCE	NCE					
25. Transporter Company Name				U.S. EPA ID	Number	
	EMICAL WASTE MANAGEM	ENT, INC.		1		00622464
26. Transporter Company Name				U.S. EPA ID	Number	
27a. 27b. U.S. DOT Description (including Proper Sh HM and Packing Group (if any))	pping Name, Hazard Class, ID Number,	28. Conta	Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
		110.	Туре	Quantity	VVL/VOI.	
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6 Acx 9597						
32. Special Handling Instructions and Additional Inform	ation					
33. Transporter Acknowledgment of Receipt of Printed/Typed Name		Signature (9			Month Day Ye
MARKUS S	tur divart	Je	/() >	•	Month Day Ye
34. Transporter Acknowledgment of Receipt of Printed/Typed Name		Signature				Month Day Ye
35. Discrepancy						
36. Hazardous Waste Report Management Method Coo	les (i.e., codes for hazardous waste treatment, dispo	osal, and recycling systems)				
Form 9700 20A /D 40 473 F						
Form 8700-22A (Rev. 12-17) Previous editions a	are obsolete.	DES	IGNATED	FACILITY	TO EPA's	-MANIFEST SYST

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k2B

CWM, INC EMELLE	***** Receipt	#	Page - 1
Date/Time In 7/14/20 16:13 Load Type Dumps Federa Transporter CHENICAL WASTE NGNT INC EMELLE AL	I EPA ID ALDOGOS22	164	** WEIGHT SUNMARY ** Gross 81680.00 Tare 3)330 .00 Net 49360 .00
Truck Number 3058 Trailer/Contar #1 707227	12 13		Adj. Net 3646 .00
Rcpt Doc Document Profile Profile Generator Ln# Ln# Ln# Number Sales Invoicing Customer	Cat Cat Total	V Units PCB Cat Waste Status	22390 K
1 1 006524515GBF 406412AL CITY OF LAWRENCE LAWRENCE MA Doc Seq # 1 EME W L FRENCH EXCAVATING CO >51% OR <51% DEBRIS (CIRCLE) PREFILLED VAULT Y OR M (CIRCLE) >51% OR <51% MAC 10% IMSPECTION (CIRCLE) BULK MATERIAL ONLY:	1 DT 33488.88 SUBCC Valu	K Kilogram Y PLFB KS Undeterminable e - NA	053122-0031 COD Reg'd
SAMPLED/INSPECTED_	FREE LIQUIDS WIND DISPERSA	NETECTED? YES / NO NETECTED? YES / NO	
PHYSICAL DESCRIPTION OF WASTE:		SAMPLER/APPR	OVAL
SPOT SANPLE: B20- PHYS. DES RAD. SCREEN POS NEG IGN. SCREEN POS NEG H20 SOL. S F PT/SOL H20 RXM/TEMP. INITIAL NO RXM REACTS H20 RXM/TEMP. SMIN. NO RXM REACTS	CRIPTION		
ph (PAPER) CN_SCREEN + - (PRUSSIAN BLUE) 1 CN_SCREEN + - (CYANTESHO) SULFIDE SCREEN + - ADDITIONAL ANALYTICAL RED'D? Y_N DESCRIBE:			
PCB CONC. (PPH) SULFIDE (9030)			
XH20 BY KF CYANIDE (9010C)	TAB WASTE Y		
PAINT FILTER TEST/ P F SPEC. GRAVITY COMMENTS: (SAFETY/OPERATIONAL)	BNZ CONC.		
COMPAT. TEST W/ OK RXW			
ADD'L SPOT SAMPLE ATTACHED? Y M			
DISPOSAL NETHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT P-ST-5/PT ST-8 ST-8/PT NIC NAC (NAC INSPECT) F INC 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 I BE RETURNED TO LAB AND PLACED ON HOLD.	SP-VS PCB-NAC	P-MAC	
RELEASED FOR DISPOSAL BY:	DATE:		



Reprint Ticket# 37693

Ph: 205-652-9721

Customer Name WLFRENCHEXCAVATING 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

Scale Inbound 90440 lb* Time Operator Gross In 07/14/2020 10:53:38 Out 07/14/2020 10:53:38 Tare MANUAL WT awalke13 32320 lb* 58120 lb awalke13 Net * Manual Weight Tons 29.06

Comments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	29.06 1.00 29.06	Each				

Total Tax Total Ticket

Ple	Please print or type.					Form Approved. OMB No. 2050-0039						
1	W	FORM HAZARDOUS ASTE MANIFEST	1. Generator ID Number MAD019426238	2. Page 1 of		ergency Response (800)4		4. Manifest	Tracking N			BF
Ш	5. Ge	nerator's Name and Mailin	ng Address			tor's Site Address	(if different t	han mailing addre	ss)	104		101
\parallel		CITY OF LA	AWRENCE (ATTN:PEDRO SOT FON STREET	го)								
П		LAWRENCE	1. (75A) G. 17T 19T 17T 17T 1									
П		rator's Phone: Insporter 1 Company Name	(978)620-3501		-			U.S. EPA ID	Mumban			
\parallel			AL WASTE MANAGEMENT, INC.					U.S. EPAID		เกลดกลาว	18/	
\parallel	7. Tra	Insporter 2 Company Name			ALD000622484 U.S. EPA ID Number							
Ш	8. De	signated Facility Name and		~				U.S. EPA ID I	Number			
\parallel			CHEMICAL WASTE HIGHWAY 17 NORT									
П	Coolin	ty's Phone 205)852-1		n, Mile	VIAT.	NER 103		1	ALD	0006224	164	
\parallel	9a.		on (including Proper Shipping Name, Hazard Class, ID Numbe	ır	+	10. Contair	ore		T	Γ		
П	HM	and Packing Group (if a	iny))	.,		No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13.1	Naste Code	es
2	_	1. RQ,UN3077	7,ENVIORONMENTALLY HAZARD	OUS								
ATO	'		CE, SOLID, NOS. (POLYCHLORINA)			001	ÞΤ	26363	K	MA02		
GENERATOR		BIPHENAL 12.	SOLID),9,PGIII	40841	2AL							
GE		2.										
1												
\parallel		3.			1							
$\ $	i											-
11		4.				•						
		 *-										
\parallel			GA(X 959	7								
$\ $	14. Sp	pecial Handling Instructions	s and Additional Information	-								
	Č	OUT OF SERVI	408412AL OUT OF SERVICE DAT CE DATE:08/19/2020	IE:06/19/	<i>2</i> 020	CWM Re mani	cord De fest cor	ept. please ov to Attn:	e mail t Dan W	he facilil <i>(</i> alsh W	y to go	enerator n <i>c</i> h
	1	Weight is estim	ated in KG. R:CHEMTREC (CONTRACT CCN2	44471		Excaval	ing Co	by to Attn: rp. 14 Ster	ding Ro	J. Billeri	ca, MA	.01862
			R'S CERTIFICATION: I hereby declare that the contents of the		are fully :	and accurately des	crihed ahov	e hy the proper sh	inning name	and are class	sified nark	hane
	r	narked and labeled/placard	ded, and are in all respects in proper condition for transport according to the consignment conform to the terms of the attach	ccording to applic	able inte	mational and natio	onal governn	nental regulations.	If export sh	ipment and I	m the Prim	ary
	i	certify that the waste minir	mization statement identified in 40 CFR 262.27(a) (if I am a la	rge quantity gene	erator) o	(b) (if I am a smal	I quantity ge	nerator) is true.				
	Gener	ator's/Offeror's Printed/Typ	ped Name	Sigr	nature					Mon	th Day	Year
₩.	16 Int	emational Shipments			-							\perp
I.L		porter signature (for export	Import to U.S.	Export from U	.\$.	Port of ent Date leaving						
2	_	ansporter Acknowledgment			 	Date leavii	ig 0.5					
TRANSPORTE		oorter 1 Printed/Typed Nam	ne	Sign	ature	<i>,</i> .	٠ ٨	٨		Mon		Year
SPO	-	1.05:1.15	tric Walker			uc i	val	hen			14	20
SAN	Iransp	oorter 2 Printed/Typed Nam	ne	Sigr I	nature					Mon I	th Day	Year
E	18. Dis	screpancy			-						Щ.	
\prod	-	iscrepancy Indication Space	Ce		1	٦٠٠٠		Пакия		Г	75.5	
	1	1110.	Quantity Type		-	Residue		Partial Rej	ection	L	Full Rej	ection
ľ	1	iac Kac	CIEVEC WAYIT		М	anifest Reference	Number:					
15	18b. A	Iternate Facility (or Genera	ator)					U.S. EPA ID N	lumber			
FAC	Facilit	y's Phone:						I				
		ignature of Alternate Facilit	ity (or Generator)		-					Mor	nth Day	Year
NAT												
DESIGNATED FACILITY	19. Ha	zardous Waste Report Ma	anagement Method Codes (i.e., codes for hazardous waste tre		, and red	cycling systems)		Lot				
20	1.	17132	2.	3.				4.				
	20 De	v / I J U	r Operator: Certification of receipt of hazardous materials cove	ared by the monif	pet even	nt as noted in John	18a					
		d/Typed Name	O 4 1		nature	1	,,,,,	2 1		Mor	ith Day	Year
1	1	/1Cholas	(tilles	-	Th	CM	/1/	In	/	1	71/4	1/20
EPA	Form	8700-22 (Rev. 12-17)	Previous editions are obsolete.	/	7	DESI	GNATED	FACILITY '	TO EPA	's e-MAN	FEST S	YSTEM



NM, IHC EMELLE ***** Receipt *	Page - 1
Date/Time In 7/14/20 16:33 Load Type Dumps Federal EPA ID ALD000622464 Fransporter CHEMICAL WASTE NGMT INC EMELLE AL Fruck Number 1887 Trailer/Coatnr #1 707229 #2 #3	** WEIGHT SUMMARY ** Gross 90440.00 Tare 32320 .00 Met 58120 .00 Adj. 363636 .00 Adj. Net .00
Rcpt Doc Document Profile Profile Generator Cnt Cnt Total W DCS Sched Federal EPA Ln# Ln# Humber Sales Invoicing Customer # Code Quan. V Units PCB Cat Waste Status	ADEN #
1 1 006451049GBF 406412AL CITY OF LAWRENCE 1 DT 33261.00 K Kilogram Y PLFB KS Undeterminable LAWRENCE NA SUBCC Value - NA Doc Seq # 1 ENE W L FRENCH ENCAVATING CORP P.O. Num >51% OR <51% DEBRIS (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE) 51% OR <51% NAC 10% INSPECTION (CIRCLE) BULK NATERIAL ONLY: SAMPLED/INSPECTED FREE LIQUIDS DETECTED? YES / NO	053122-0031 COD Req'd
SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL MATERIAL? YES / NO	
PHYSICAL DESCRIPTION OF WASTE:	ROVAL
SPOT SAMPLE: B20- PHYS. DESCRIPTION RAD. SCREEN POS NEG IGN. SCREEN POS NEG H20 SUL. S F PT/SOL H20 RXM/TEMP. INITIAL NO RXM REACTS H20 RXM/TEMP. SMIN. NO RXM REACTS CM SCREEN + - (PRUSSIAN BLUE) CM SCREEN + - (CYANTESHO) SULFIDE SCREEN + - (CYANTESHO) SULFIDE SCREEN + - (CYANTESHO) SULFIDE SCREEN + - (CYANTESHO) XH20 BY NF CYANIDE (9030) XH20 BY NF CYANIDE (9010C) TAB WASTE PAINT FILTER TEST/ P F SPEC. GRAVITY BNZ CONC. PPM COMMENTS: (SAFETY/OPERATIONAL)	
COMPAT. TEST V/ OR RXM ADD'L SPOT SAMPLE ATTACHED? Y M 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-MAC 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 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD. RELEASED FOR DISPOSAL BY: DATE:	



CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Ph: 205-652-9721

Inbound

Reprint Ticket# 37694

Gross

62260 lb*

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Vehicle# NA Ticket Date 07/15/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination Grid

PO#

Operator 32280 lb* 07/15/2020 10:54:41 Tare MANUAL WT awalke13 In Out 07/15/2020 10:54:41 29980 lb awalke13 Net 14.99

* Manual Weight Tons

Scale

Comments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	14.99 1.00 14.99	Each				

Total Tax Total Ticket

PI	ease print or type.						14.60			
1	UNIFORM HAZARDOUS 1. Generator ID Number	2. Page 1 of	3. Em	ergency Respons	e Phone	4. Manifes	For t Tracking I	m Approved	. OMB No	. 2050-003
	WASTE MANIFEST MAD019428238	2			124-930			1104	0 6	BF
	5. Generator's Name and Mailing Address		Genera	ator's Sile Addréss	(if different	than mailing addre	04.	TUA	. B C	IDF
	CITY OF LAWRENCE (ATTN:PEDRO SOT	D)			- N. C. V. S.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
П	207 MARSTON STREET									
П	Generators PANARENCE (978)820 3581									
\parallel	A SOCIAL STREET, CONTROL OF CONTR					U.S. EPA ID	Number			
	CHEMICAL WASTE MANAGEMENT, INC. 7. Transporter 2 Company Name						A! F	000622	181	
	Waliopolio 2 company realie					U.S. EPA ID	Number	ODODEL	404	
П	Designated Facility Name and Site Address									
		~				U.S. EPA ID	Number			
	CHEMICAL WASTE M	1ANAGE	MEN	IT, INC.						
П	HIGHWAY 17 NORTH Facility's Phon(205)852-9721	I, MILE P	VIAR	KER 163			ALD	000622	464	
П	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,									
11	HM and Packing Group (if any))			10. Contain		11. Total	12. Unit	13.	Waste Code	s
1	1. BO LINSOTT FADURADON IENTALIA			No.	. Type	Quantity	Wt./Vol.			
101	RQ,UN3077,ENVIORONMENTALLY HAZARDOI SUBSTANCE, SOLID,NOS.(POLYCHLORINATE	US -D		001	DТ		K	MANO		
ER	HPHENAL SOLID) 9 PGIII	40641	140		Ψ,	13,599	11			
GENERATOR	2.	4004	- Na							
0										
П	0									
П	3.									
П										
П	4.			*						
П										
	AACX 9597									
	14. Special Handling Instructions and Additional Information		-							
	1.AFPROVAL#408412AL OUT OF SERVICE DATE	:06/19/2	020	CWM Red	cord De	pt. please	mail th	ne facilit	v to de	nerator
	OUT OF SERVICE DATE:08/19/2020 Weight is estimated in KG.			manif	est cop	y to Attn: I p. 14 Ster	Dan W	alsh W.	L. Frer	ich]
	ERI PROVIDER : CHEMTREC (CONTRACT CCN241	117)								- 1
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this compared and labeled/placeded and an in all represents in a property of the contents of this compared and the contents of	onsignment ar	fully a	nd accurately desc	cribed above	by the proper shi	oping name,	and are class	sified, packa	ged,
	marked and labeled/placarded, and are in all respects in proper condition for transport accord Exporter, I certify that the contents of this consignment conform to the terms of the attached in	- PA Acknowled	amont	of Concept			If export ship	oment and I a	m the Prima	ry
	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large if Generator's/Offeror's Printed/Typed Name	quantity gener	Y							
	Control of a finite of types Name	Signa I	ture					Mont	h Day	Year
V	16. International Shipments									
F		xport from U.S		Port of entry						
00	17. Transporter Acknowledgment of Receipt of Materials			Date leaving	0.8.:					
RTE	Transporter 1 Printed/Typed Name	Signal	ure	\wedge	62			Month	n Day	Year
TRANSPORTE	MAIZICUS STURdivANT	1		Ju	1	02-		1-	7116	120
ANS	Transporter 2 Printed/Typed Name	Signa	ure	/				Monti	n Day	Year
F								- 1	1	
1	18. Discrepancy									
П	18a. Discrepancy Indication Space Quantity Type			Residue		Partial Rejec	rtion		Full Rejec	tion
	Add comed					· urdur rtojot	34011	_	_ i uli rejec	uon
<u>_</u>	18b. Alternate Facility (or Generator)		Mai	nifest Reference N	lumber:					
틸	Tob. Paternate Facility (of Generator)					U.S. EPA ID Nu	ımber			
FAC	Facility's Phone:					1				1
	18c. Signature of Alternate Facility (or Generator)					1		Mont	h Day	Year
DESIGNATED FACILITY	***************************************							WOR	Jay	Total
SIG	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatme	ent, disposal, a	nd recy	cling systems)						
B	1. 400 2	3.				4.				-
1	11:00									
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by	by the manifes	except	as noted in Item 1	8a	,				
11	Printed/Typed Name	Signat	-		4	1		Mont	Day	Year
♦	1amy mush	A	W	nmy	al	Mad	L	1/	115	do
EPA.	Form 8700-22 (Rev. 12-17) Previous editions are obsolete.	,		DESIG	NATED	FACILITY T	O EPA's	e-MANII	FEST SY	STEM

(3)

CWM, INC EMELLE *** Receipt *	Page -
Date/Time In 7/15/20 8:52 Load Type Dumps Federal EPA ID ALD000622464 Transporter CHENICAL WASTE NGNT INC EMELLE AL	** WEIGHT SUMMARY Gross 62268.
Truck Number 3058 Trailer/Conter #1 707227 #2 #3	Met 39,980. Adj. 112,599/40
Ropt Doc Document Profile Profile Generator Cnt Cnt Total W DCS Sched Federal EPA Ln# Ln# Humber Sales Invoicing Customer # Code Quan. W Units PCB Cat Waste Status	ADEN #
1 1 806451048GBF 406412AL CITY OF LAWRENCE 1 DT 1.00 K LAWRENCE NA SUBCC Value DOC Seq # 1 EME W L FRENCH EXCAVATING CORP P.O. Num >51% OR <51% DEBRIS (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE) BULK MATERIAL ONLY:	053122-0031 COD Req'd
SAMPLED/INSPECTED FREE LIQUIDS DETECTED? YES / NO	
SELECT MATERIAL/MON-SELECT MATERIAL WIND DISPERSAL MATERIAL? YES / NO	
PHYSICAL DESCRIPTION OF WASTE: SAMPLER/APP	ROVAL_
COMPANIES CONTRACTOR C	
SPOT SAMPLE: B20- PHYS. DESCRIPTION RAD. SCREEN POS NEG IGN. SCREEN POS NEG H20 SOL. S F PT/SOL H20 RXM/TEMP. INITIAL NO RXM REACTS H20 RXM/TEMP. SHIM. NO RXM REACTS DESCREEN + - (PRUSSIAN BLUE) CM SCREEN + - (CYANTESHO) SULFIDE SCREEN + - (CYANTESHO) SULFIDE SCREEN + - (CYANTESHO) DESCRIBE: PCB CONC. (PPM) SULFIDE (9030) TR20 BY KF CYANIDE (9010C) TAB WASTE Y M PAINT FILTER TEST/ P F SPEC. GRAVITY BMZ CONC. PPM COMMENTS: (SAFETY/OPERATIONAL) COMPAT. TEST W/ OK RXM	
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 SQ1-PTA B-PIN OTHER P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC IMSPECT) F INC SP-VS PCB-MAC P-MAC P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8 INDICATOR PARAMETER VILL 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:	



Reprint

Ticket# 37696

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM

Ticket Date 07/15/2020 Payment Type Credit Account Manual Ticket# Route

Container Driver Check#

Vehicle# NA

Volume

Hauling Ticket# Destination

Billing# 0000688

Grid

PO#

Scale Time 07/15/2020 10:56:04 MANUAL WT In Out 07/15/2020 10:56:04

Operator awalke13 awalke13 * Manual Weight

86920 lb* Gross Tare 36320 lb* 50600 lb 25.30 Net Tons

Comments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
2	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	25.30 1.00 25.30	Each				

Total Tax Total Ticket

Ph: 205-652-9721

Inbound

Ple	ase print or type.						For	m Approved.	OMB No.	2050-003	
1	UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST MAD019426238	3		ergency Response (800)4	24-930	4. Manifest	Tracking N			BF	
П	5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN:PEDRO SOT)	O)	enera	tor's Site Address	(if different	than mailing addre	ss)		-		
П	207 MARSTON STREET	-,									
\parallel	LAWRENCE MA 01841 Generator's Phone: (978)820-3501	1									
	6. Transporter 1 Company Name		U.S. EPA ID Number								
Ш	7. Transporter 2 Company Name	CHEMICAL WASTE MANAGEMENT, INC.			ALD000822464						
	The special 2 company manual	Hullspotter 2 company Name			U.S. EPA ID Number						
11	Designated Facility Name and Site Address			U.S. EPA ID Number							
	CHEMICAL WASTE MANAGEM HIGHWAY 17 NORTH, MILE M			MENT, INC. IARKER 163 ALD000622464							
	Facility's Phon(205)852-9721 EMELLE AL 35459	_	/ Was 0 10 0 2 2 4 0 4								
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Contair No.	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes				
ENERATOR	RQ,UN3077,ENVIORONMENTALLY HAZARDO SUBSTANCE, SOLID,NOS.(POLYCHLORINATI	ED		001	DŢ	20,952	К	MA02			
NER	EIPHENAL SOLID), 8, PGIII	406412	AL		-	941104					
- GE											
	3										
	3.										
	4.		П								
	CIGX 803533										
	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 gener OUT OF SERVICE DATE:06/19/2020 manifest copy to Attn: Dan Walsh W. L. French Weight is estimated in KG. ERI PROVIDER :CHEMTREC (CONTRACT CCN24117)						nerato nch .01862				
	5. 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								iged,		
	exported, it earlies 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.									iry	
+	Generator's/Oiferor's Printed/Typed Name	Signat	ture					Month	Day	Year	
LLN	16. International Shipments Import to U.S.	Export from U.S.		Port of entr	ry/exit:					_	
-	Transporter signature (for exports only): 17. Transporter Acknowledoment of Receipt of Materials	*		Date leaving U.S.:							
TE	Transporter 1 Printed/Typed Name	Signatu	ure	1				Month	Day	Year	
TRANSPORTE	Galen Mast	LÌ.	1	Ele-	272	est		17	1/5	20	
SAN	Transporter 2 Printéd/Typed Name	Signati I	ure					Month	Day	Year	
F	18. Discrepancy		-							4	
	18a. Discrepancy Indication Space Quantity Type		F	Residue		Domini Daio		Г]		
	Add recved Int.		Ma	nifest Reference i	Number:	Partial Reje	cuon	<u></u>	Full Reje	ction	
LI	. Alternate Facility (or Generator)			U.S. EPA ID Number							
FACILITY	bility's Phone:										
9	18c. Signature of Alternate Facility (or Generator)		-					Month	n Day	Year	
SNA											
DESIGNATED	Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and			d recycling systems)							
1	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered		DVOOR	ge noted in lies	192	# N					
	Printed/Typed Name	Signate	-	A HURSUINI ILEM	108	NT -	7	Month	Day	Year	
↓ EPA	Form 8700-22 (Rev. 12-17) Previous editions are obsolete.	-Q	2/	MMU	1 A	FACILITY T	A DEDAL	17	15	120	
				DESIL	IVAIEL	PACILITY	U EPA	s e-MANIF	E313	OIEM	

	(*/	
CWH, INC ENELLE **** Receipt # 556664	Page - 1	
Date/Time In 7/15/20 10:02 Load Type Dumps Federal EPA ID ALD000622454 Transporter CHENICAL WASTE HGHT INC ENELLE AL	** WEIGHT SURMARY ** Gross -856920.00 Tare86,990.00 Net 24,990.00	
Truck Number 653473 Trailer/Conter #1 707066 #2 #3	Adj. 20, 500.00 Adj. Netech /00/200	
Ln# Ln# Number Sales Invoicing Customer # Code Quan. V Units PC	Sched Federal EPA 20,95	akg
1 1 006451047GBF 486412AL CITY OF LAWRENCE 1 DT 1.00 K LAWRENCE MA SUBCC Value Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP P.O. Num >51X OR <51X DEBRIS (CIRCLE) PREFILLED VAULT Y OR M (CIRCLE) >51X OR <51X MAC 10X INSPECTION (CIRCLE) BULK MATERIAL ONLY:	PLF8 KS Undeterminable 053122-0031 COD Req'd	
SAMPLED/INSPECTED FREE LIQUIDS DETECTED?	YRS / 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 R20 SOL. S F PT/SOL R20 RXM/TEMP. INITIAL NO RXM REACTS R20 RXM/TEMP. SMIN. HO RXM REACTS Ph (PAPER) CN SCREEN + - (CYANTESHO) SULFIDE SCREEN + - (CYANTESHO) SULFIDE SCREEN + - ADDITIONAL ANALYTICAL RED'D! Y N DESCRIRE: PCB CONC. (PPM) SULFIDE (9030) XH20 BY RF CYANIDE (9010C) TAB WASTE Y N PAINT FILTER TEST/ P F SPEC. GRAVITY BNZ CONC. PPM COMMENTS: (SAFETY/OPERATIONAL)		
COMPAT. TEST W/OKREN		
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-P P-ST-5/PT ST-8 ST-8/PT MIC 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:	PIN OTHER	
RELEASED FOR DISPOSAL BY: DATE:		



Ph: 205-652-9721

Reprint

Volume

Ticket# 37697

82160 lb*

32260 lb*

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Carrier CWM Vehicle# NA Ticket Date 07/15/2020 Payment Type Credit Account Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688

Destination Grid

PO# Operator Inbound Gross Time Scale

Tare 07/15/2020 10:57:14 MANUAL WT awalke13 In Out 07/15/2020 10:57:14

Net Tons awalke13 49900 lb * Manual Weight 24.95

Comments

Rate Tax Amount Origin Product LD% Qty UOM ______ TSCA DSP/TON - PCB REMED 100 24.95 Tons
MFE-e-Manifest (Landfill 100 1.00 Each
TTN-TRANSPORTATION PER T 100 24.95 Tons

> Total Tax Total Ticket

CWMI Please print or type. Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 4. Manifest Tracking Number 006524506 2. Page 1 of 3. Emergency Response Phone WASTE MANIFEST (800) 24-9300 UU Generator's Site Address (if different than mailing address) MAD019428238 5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN:PEDRO SOTO) 207 MARSTON STREET Generator SPHONE RENCE (978)820 3501841 U.S. EPA ID Number **GOULET TRUCKING INC** MAC300066038 7. Transporter 2 Company Name U.S. EPA ID Number MAD059020834
U.S. EPAID Number 8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 183 ALD000822464 EMELLE AL 35459 Facility's Phone: 2051652-9721 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit and Packing Group (if any)) 13. Waste Codes Quantity No. Туре Wt./Vol. RQ,UN3077,ENVIORONMENTALLY HAZARDOUS MAD 001 DT SUBSTANCE, SOLID, NOS. (POLYCHLORINATED K 24018 SIPHENAL SOLIDA 9 PGIII O CT6x 803533 1.APPROVAL#408412AL OUT OF SERVICE DATE:06/19/2020 CWM Record Dept. please mail the facility to generate OUT OF SERVICE DATE:08/19/2020 manifest copy to Attn: Dan Walsh W. L. French 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, niarked 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 any a small quantity gene Generator's/Offeror's Printed/Typed Name Month Day Year 5.7 rdro 106 124 120 Export from U.S. Import to U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials Day 106124120 6 24 20 18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection Manifest Reference Number 18b. Alternate Facility (or Generator) U.S. EPA ID Number 18c. Signature of Alternate Facility (or Generator) Day Year 19. Hazardous Wastel Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Hern 18a

DESIGNATED FACILITY TO EPA'S e-MANIFEST SYSTEM

ammi

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number	Form Approved. OMB No. 2050-
(Continuation Sheet)	22. Page 3 23. Manifest Tracking Number 006 524506 654
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 81841	of 3 U C C S & 7 3 UE C S S F
25. TransporterSCompany Name CHEMICAL WASTE MANAGEMEN	U.S. EPA ID Number IT, INC. ALD000822484
26. Transporter Company Name	U.S. EPA ID Number
27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, HM and Packing Group (if any))	28. Containers 29. Total 30. Unit 31. Waste Codes No. Type Quantity Wt./vol. 31. Waste Codes
	-
2. Special Handling Instructions and Additional Information	
2. Operati renning instructions and Additional Information	
3. Transporter Acknowledgment of Receipt of Materials rinted Typed Name Signa	
4. TransporterAcknowledgment of Receipt of Materials	Ryan Buchanan 17/15/20
rinted/Typed Name Signa	ture Month Day Yea
5. Discrepancy	
6. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal,	nd recycling systems)
orm 8700-22A (Rev. 12-17) Previous editions are obsolete.	DESIGNATED FACILITY TO EPA'S e-MANIFEST SYSTE

CWH, INC EMELLE	***** Receipt # *****	Page -
Transporter CHENICAL WASTE MONT INC ENELLE AL	eral EPA ID ALD000622464	Gross 82160.9 Tare 30,000.9 Het 49,968 Adj. New 163440
Truck Number 3057 Trailer/Contor #1 707230	12 8 13	MJ. 7034KJ
Rcpt Doc Document Profile Profile Generator Ln# Ln# Number Sales Invoicing Customer	# Code Quan. V Units PCB Cat 1	Federal EPA faste Status ADEN #
1 1 006524506GBF 406412AL CITY OF LAWRENCE	1 DT 24018.00 K Kilogram Y PLFB KS	
Doc Seq # 1 EME W L FRENCH EXCAVATING >51% OR <51% DEBRIS (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE) >51% OR <51% MAC 10% INSPECTION (CIRCLE) BULK MATERIAL ONLY:	G CORP P.O. Num	COD Req*d
SAMPLED/INSPECTED	FREE LIQUIDS DETECTED?	YES / NO
SELECT NATERIAL/NON-SELECT NATERIAL	NIND DISPERSAL MATERIAL?	YES / NO
PHYSICAL DESCRIPTION OF WASTE:		SAMPLER/APPROVAL_
SPOT SAMPLE: B20- RAD. SCREEN POS NEG IGN. SCREEN POS NEG IGN. SCREEN POS NEG H20 SOL. S F PT/SOL. H20 RXN/TEMP. INITIAL NO RXN REACTS PA (PAPER) CN SCREEN + (PRUSSIAN BLUE) CN SCREEN + (CYANTESHO) SULFIDE SCREEN + (CYANTESHO) SULFIDE SCREEN + CYANTESHO) SULFIDE SCREEN + CYANTESHO) DESCRIBE: PCB CONC. (PPM) SULFIDE (9030) RH20 BY NF CYANIDE (9010C) PAINT FILTER TEST/ P F SPEC. GRAVITY COMPAT. TEST W/ OR RXN	TAB WASTE Y B RNZ CONC. PPN	
ADD'L SPOT SAMPLE ATTACHED? Y N DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3 P-ST-5/PT ST-8 ST-8/PT MIC MAC (MAC INSPECT) F 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 BE RETURNED TO LAB AND PLACED ON HOLD.	TO BE LESS THAN 51% MUST	
RELEASED FOR DISPOSAL BY:	DATE:	



Ph: 205-652-9721

Reprint Ticket# 37698

81600 lb*

Customer Name WLFRENCHEXCAVATING 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
In 07/15/2020 10:58:29 MANUAL WT awalke13 Tare

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

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	22.86 1.00 22.86	Each				

Total Tax Total Ticket

Form Approved. OMB No. 2050-0039

	_	t or type.	1. Generator ID Number	2. Page 1 of	3. Emerg	ency Response P	hone	4. Manifest 7	racking Nu	57 51	10	00
11		ORM HAZARDOUS		2		(800)42	4-9300			.401	- - G E	
11		nerator's Name and Mailir	MAD019426238	3	Generator	's Site Address (if	different than	mailing addres	s)			
П	5. Gen	CITY OF L		TO								
Ш				/	-							-
Ш		207 MARS	TON STREET									
Ш	Gener	ator's Phone: RENC	E (978)620-3501		-			U.S. EPAID N	Number			
11	6. Tran	nsporter 1 Company Nam	me ,					ĺ			020	
Ш		GOULET	TRUCKING INC.			-		U.S. EPA ID N		300066	U30	
Ш	7. Trai	nsporter 2 Company Nan	me					1	tumbor			
Ш		DDOMDE	ENCE & WORCESTER RAILROAD)		15. L., L.	15	===1.10.1		1059020	1834	
Ш	8. Des	signated Facility Name ar	nd Site Address					U.S. EPA ID N	Number			
Ш		0. To	CHEMICAL WASTE	MANAGE	MEN	T, INC.						
Ш			HIGHWAY 17 NOR	TH, MILE	MARK	(ER 163			ALD	0006224	464	1
Ш	_		CUCLLE AL SEASO									
	Facilit	ty's Phone(:205)652	-8/21	ner		10. Contain	ers	11. Total	12. Unit	12	Wasta Cadar	
Ш	9a.	9b. U.S. DOT Descript and Packing Group (if	otion (including Proper Shipping Name, Hazard Class, ID Numb	, , , , , , , , , , , , , , , , , , ,		No.	Туре	Quantity	Wt./Vol.	13.	Waste Codes	
П	HM	The second second				1,01	.776-5	10020				
å		1. RO UN307	77,ENVIORONMENTALLY HAZARI	DOUS	a 11	001	DT (<i>צבן עד</i>	к	MAD2	- 925	Litela
2	7	SUBSTAN	ICE, SOLID, NOS. (POLYCHLORIN)	ATED		001	D1	3170	ļ ''		1 1 1	2.5
S	1	BIPHENA	L SOLID),9,PGIII	4064	12AL	N 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2000	-		6. TH.	7/1
ENERATOR		2.					, a					he Ne
5		Villa in the control									1 4 1/2 = 1	1.15
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	64	3.	×2 1 7		i a						3	1 E 10 1
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П		CE6X8	202533							1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
П	44.0	COKO	ons and Additional Information								100-00-0	
11	14. 5		#408412AL OUT OF SERVICE D	ATE:08/19	/2020	CWM Re	cord De	ot. pleas	e mail t	he facil	ity to ge	enerator
		OUT OF SER	VICE DATE:06/19/2020	,, _,,,,,		mani	feet con	u ta Attn	Dan V	AISH W	L -re	ומח
П	2	Weight is esti	imated in KG.	1544450		Excava	ting Cor	p. 14 Ste	rling R	d. Biller	ica, MA	.01882
П	Y.	ERI PROVIDE	R :CHEMTREC (CONTRACT CCN	124117)				- 104 6	<u> </u>		· (C. 17 - 1	-
П	15.	GENERATOR'S/OFFER	ROR'S CERTIFICATION: I hereby declare that the contents o carded, and are in all respects in proper condition for transport	f this consignmen	are fully a	ind accurately des	scribed above	by the proper si	nipping nam	e, and are cia ninment and I	am the Prim	aged,
П		Exporter I certify that the	e contents of this consignment conform to the terms of the atta	ached EPA Ackno	wledgment	of Consent.			s. II Oxport of	iipitioik and i		
П		I certify that the waste m	ninimization statement identified in 40 CFR 262.27(a) (if I am a	a large quantity ge	nerator) or	(b) (if I am a sma	Il quantity ger	erator) is trae.			V	
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I.L	7.5		Import to U.S.	Export from	U.S.	Port of ent						
_	_	nsporter signature (for exp		C 1 1 1	-	Date leavi	7	_				
TER			ent of Receipt of Materials	- 0	gnature	X		1	7	Mo	nth Day	Year
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>	18h	Alternate Facility (or Ger	nerator)		- IVI	armest recording	- Hullison /	U.S. EPAID	Number			
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O.	Faci	lity's Phone:	acility (or Generator)							IM	lonth Da	y Year
H	18C.	Signature of Alternate Fa	acility (of Generator)							"	ı	
N	L											1 -
DESIGNATED FACILITY	19.1	Hazardous Waste Report	t Management Method Codes (i.e., codes for hazardous waste	treatment, dispo	sal, and red	cycling systems)		- 1.				-
B	1.	1474	2.	3.)	4.				
li		4110	/\				ļ					
$\ $	20. [Designated Facility Qwne	er or Operator: Certification of receipt of hazardous materials of	covered by the ma	nifest exce	pt as noted in Iter	n 18/a			8.		
		ted/Typed Name	vallaid Alit		gnature	11/	11-			М	lonth Day	Year
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L	A For	m 8700-22 (Rev. 12-1	7) Previous editions are obsolete.		-	/ 250	ICNATE:	FACILITY	TO ED	N'o o MA	NIEEST	SVSTEM
	VI.OU	111 0100-22 (Nev. 12-1	וון ו ופיוטעט בעונוטווט מוב טטטטובנב.		1 3	ne2	ICHAIL	/ FAUILII T	IU Er/	A D C'ITA	ALL POLI	PIOIEIN

Form Approved. OMB No. 2050-0039

e print of type.	21. Generator ID Number		22. Page 2	23. Manife	st Tracking Nu	mber			
UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	MAD040426239		nf3	00	0652	431	14 GBF		
24. Generator's Name	1110 22 15 15 15 15 15 15 15 15 15 15 15 15 15								
CITY OF LAWRE 207 MARSTON S	NCE								
LAVADENCE	MA 01841	_			U.S. EPA ID	Number			
25. Transporter 3 Company Name CS	X TRACNSPORTATION INC.	NC. FLD00692134			0006921340				
L2	ABAMA AND GULF COAST RA	U.S. EPA ID Number			2000046706				
		П	28. Contain	ners	29. Total	30. Unit	it 31. Waste Codes		
27a. 27b. U.S. DOT Description (including Proper Sh HM and Packing Group (if any))	pping runne, rissant state, and a		No.	Туре	Quantity	Wt./Vol.	0		
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33. TransporterAcknowledgment of Receip	of Materials			.0	11		0 a 5 V		
Printed/Typed Name		Signature		A C	<i>‡ </i>		Month Day Year		
Jerov Fitch		de	win]	Un	en		17 115 120		
Printed/Typed Name 34. Transporter Acknowledgment of Receip Printed/Typed Name	t of Materials	Cignatur	/				Month Day Year		
Printed/Typed Name		Signature					1 1 1		
		-							
35. Discrepancy									
36. Hazardous Waste Report Management Method	Codes (i.e., codes for hazardous waste treatment, dis	posal, and	recycling systems	s)					
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PA Form 8700-22A (Rev. 12-17) Previous edition	ns are obsolete.		DE	SIGNATI	ED FACILI	TY TO EP	A's e-MANIFEST SYSTE		



k26

CWM, INC EMELLE	***** Receipt #556665 *****	Page - 1
Date/Time In 7/15/20 10:07 Load Type Dumps Transporter CHEMICAL WASTE MGMT INC EMELLE A Truck Number 653475 Trailer/Contar 81		** WEIGHT SUMMARY ** Gross 81600.00 Tare 55 86 00 Het 145 730 00 Adj. Het 738 400
Laf Laf Number Sales Invoicing Cust		ste Status ADEN #
	E 1 DT 31256.00 K Kilogram Y PLFB KS U SURCC Value - NA	
BULK MATERIAL OBLY:		
CANDI DO (PRODUCIDO	FREE LIQUIDS DETECTED? WIND DISPERSAL MATERIAL?	YES / NO YES / NO
PHYSICAL DESCRIPTION OF WASTE:		SAMPLER/APPROVAL_
SPOT SAMPLE: B20- RAD. SCREEN POS NEG IGN. SCREEN POS NEG H20 SOL. S F PT/SOL H20 RXM/TEMP. INITIAL NO RXM REACTS H20 RXM/TEMP. SMIM. NO RXM REACTS h(PAPER) CM_SCREEN + - (PRUSSIAN BLUE) CM_SCREEN + - (CYANTESHO) SULFIDE SCREEN + - ADDITIONAL ANALYTICAL REG'D? Y M DESCRIBE: PCB COMC. (PPM) SULFIDE (903) LH20 BY NF CYANIDE (901) PAINT FILTER TEST/ P F SPEC. GRAVITY COMMENTS: (SAFETY/OPERATIONAL)) C) TAB WASTE Y H	
COMPAT, TEST W/OK	AXII_	
ADD'L SPOT SAMPLE ATTACHED? Y M DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-5/PT ST-8 ST-8/PT NIC NAC (NAC INSI 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 BE RETURNED TO LAB AND PLACED ON HOLD.		
RELEASED FOR DISPOSAL BY:	DATE:	
"我们是我们的人,我们就是我们		



Ph: 205-652-9721

Gross

Ticket# 37699

83340 lb*

Reprint

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Vehicle# NA Ticket Date 07/15/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination Grid

PO# Scale Inbound Time Operator

07/15/2020 10:59:40 Tare MANUAL WT awalke13 32260 lb* In Out 07/15/2020 10:59:40 51080 lb 25.54 awalke13 Net * Manual Weight Tons

Comments

Prod	uct	LD%	Qty	MOU	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	25.54 1.00 25.54	Each				

Total Tax Total Ticket

Ple	ase print or type.		Form Approved, OMB No. 2050-0039							
1	WASTE MANIFEST 1. Generator ID Number MAD019426238	2. Page 1 o	3	ergency Response	24-93nr	4. Manifest	Tracking N	2450	07 G	BF
*	5. Generator's Name and Mailing Address CITY OF LAWRENCE (ATTN:PEDRO SOT) 207 MARSTON STREET	0)	Genera	tor's Site Address	(if different th	an mailing addre	ss)			-
$\ $	Generator's Phone: (978)820-3501				-	U.S. EPA ID N	Number			
Ш	GOULET TRUCKING INC. 7. Transporter 2 Company Name							300066	3038	
	PROVIDENCE & WORCESTER RAILROAD					U.S. EPA ID N		0059020	1024	
	8. Designated Facility Name and Site Address CHEMICAL WASTE N HIGHWAY 17 NORTH	/ANAG	EMEN MAR	IT, INC. KER 163		U.S. EPA ID N	lumber			
	Facility's Phone (205) 852-9721 EMELLE AL 35459		130000 1710		- A		ALD	000822	464	
Ш	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Contain No.	ers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Codes	
GENERATOR -	RQ,UN3077,ENVIORONMENTALLY HAZARDO SUBSTANCE, SOLID,NOS.(POLYCHLORINATE BIPHENAL SOLID),9,PGIII	US ED 4064	12AL	001	тα	23/10 <i>32154</i>	_ĸ	MA02		
- GENE	2.				:					
	3,									
	4.									
	CZ6x 403533 14. Special Handling Instructions and Additional Information					:				i e
	14. Special Handling Instructions and Additional Information 1. APPROVAL# 406412AL OUT OF SERVICE DATE OUT OF SERVICE DATE:08/19/2020 Weight is estimated in KG. ERI PROVIDER : CHEMTREC (CONTRACT CCN24)	.	2020	manıı	PST COD	pt. please y to Attn: I p. 14 Ster	lan W	bich W	From	ann I
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this of marked and labeled/placarded, and are in all respects in proper condition for transport accord Exporter, I certify that the contents of this consignment conform to the terms of the attached I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large	consignment	cable inter	national and natio	nal governme	ntal regulations. I	oping name If export shi	, and are class pment and I a	sified, packaç ım the Primar	ged, y
+	Generator's/Offeror's Printed/Typed/Name		nature	Ven	l n	1		Mont	Day 2	Year
INLI	16. International Shipments Import to U.S. Transporter signature (for exports only):	Export from L	J.S.	Port of entry Date leaving	1030000	V V		1		
TER	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name	Sign	nature							
SPOR	MATHEW REARL STEIN	J	iature	1			-	Mont	6 Z4	7020
TRANSPORTE	Transporter 2 Pinted Typed Name Laure Grand	Sig	nature	ful	8h	40		Mont		Year 20
1	18. Discrepancy Indication Space Quantity Type			Residue		Partial Rejec	etion		Full Rejec	ion
\ \	Corrected to verv'd wt. Per Da 18b. Alternate Facility (or Generator)	n Wa	US/	nifest Reference	20 (L	36				
ACILIT						U.S. EPA ID Nu	mber			
DESIGNATED FACILITY	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)				8			Mon	th Day	Year
DESIG	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatm 1. 1	nent, disposal	, and recy	cling systems)		4.				
	H132			, , , , , , , , , , , , , , , , , , , ,	# (1.				
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered Printed/Typed Name		est except	as noted in Item 1	18a	/	1	Mont	h Day	Year
↓ PA	Form 8700-22 (Rev. 12-17) Previous editions are obsolete.	9	M	MMV DESKG	A A	Las ACILITY TO	C EPA's	e-MANII	1/5	20 STEM

ee print or type. UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number	22. Page 3	23. Manifest	Tracking Nu	mber		. OMB No. 2050-	
(Continuation Sheet) MAD019426238	22. Page 2 23. Manifest Tracking Number OO6S2 4507 GBF						
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 01841							
25. Transporter CSX TRACNSPORTATION INC.		1	U.S. EPA ID I		00692	1340	
Towards 4 Community			U.S. EPA ID I	Number			
ALABAMA AND GULF COAST RAI	28. Contain				000041	8708	
27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	No.	Туре	29. Total Quantity	30. Unit Wt./Vol.	31. \	Waste Codes	
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1201 012-22							
CZ6X 803533 32. Special Handling Instructions and Additional Information							
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3. TransporterAcknowledgment of Receipt of Materials							
Printed/Typed Name Sign	ature				Moi 	nth Day Ye	
4. Transporter Acknowledgment of Receipt of Materials							
Printed/Typed Name Sign	ature				Moi	nth Day Ye	
5. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal,	and recycling systems)			ı			
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UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number	22. Page	3 23. Manr	est Tracking N	1111ber 12 <i>4 5</i> 7	07 6BF
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 81841	- ' of	31 0			
25. Transporter	NIT INIC		U.S. EPA ID		222224
26. Transporter Company Name	NI, INC.		U.S. EPA ID		000622464
				SOCIOLI PRINCIPI	
27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Cont		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
	140.	Туре	Quantity	VVL/VOI.	
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CI6X 883533				-	
32. Special Handling Instructions and Additional Information					
		90			
33. Transporter Acknowledgment of Receipt of Materials					
Printed/Typed Name Eric Walker	Eur	1,200	Λ.,		Month Day Yea
34. TransporterAcknowledgment of Receipt of Materials	CHIC	wa			1 13 2
Printed/Typed Name Sign	nature				Month Day Yea
35. Discrepancy			-		
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposa	and recycling systems)				
	Ĩ			1	
Form 8700-22A (Rev. 12-17) Previous editions are obsolete.	DES	IGNATED	FACILITY 1	O FDA's	-MANIFEST SYSTE

over weight (

***** Receipt # 556657 ***** Page - 1 CWM, INC. - EMELLE ** WEIGHT SUMMARY ** Date/Time In 7/15/20 9:00 Gross 83340.00 Federal EPA ID ALD000622464 Load Type Dumps Tare 32260.00 Transporter CHENICAL WASTE NGMT INC Net 5/080 .00 ENELLE AL Adj. Net Truck Number 1887 Trailer/Contar #1 707229 #2 #3 Ropt Doc Document Profile Profile Generator Cot Cot Total W DCS Sched Federal EPA Lof Lof Number Sales Invoicing Customer & Code Quan. V Units PCB Cat Vaste Status ADEN # ----------1 1 0065245076BF 406412AL CITY OF LAWRENCE 1 DT 1.00 K Kilogram Y PLFB KS Undeterminable 053122-0031 LAWRENCE NA SUBCC Value - NA Dog Seg # 1 EME W L FRENCH EXCAVATING CORP P.O. Num COD Reg'd >51% OR <51% DEBRIS (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE) >51% OR <51% MAC 10% INSPECTION (CIRCLE) BULK MATERIAL ONLY: PREE LIQUIDS DETECTED?
WIND DISPERSAL MATERIAL? YES / NO SAMPLED/INSPECTED_ SELECT NATERIAL/HON-SELECT NATERIAL YES / NO SAMPLER/APPROVAL PHYSICAL DESCRIPTION OF WASTE: SPUT SAMPLE: _____B20-I PHYS. DESCRIPTION RAD, SCREEN PUS NEG
1GH. SCREEN POS NEG
S F PT/SOL
DWN REAC H20 EXH/TEMP, INITIAL NO RXN REACTS 1 H20 RXM/TEMP. SHIM. NO RXM REACTS ph (PAPER) CH SCREEN + - (PRUSSIAN BLUE) CM SCREEN + - (CYARTESHO) SULFIDE SCREEN + -ADDITIONAL ANALYTICAL REG'D? Y N DESCRIBE: PCB CONC. (PPN) SULFIDE (9030) THE RY RF CYANIDE (9010C) TAB WASTE Y R
PAINT FILTER TEST/ P F SPEC. GRAVITY BNZ CONC. PPH BNZ CONC. PPH COMMENTS: (SAFETY/OPERATIONAL) COMPAT. TEST W/ OR RXM ADD'L SPOT SAMPLE ATTACHED? Y N DISPOSAL NETHOD: 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 MIC 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 VILL 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:



Ticket# 37700

Reprint

Volume

Ph: 205-652-9721

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier
Ticket Date 07/17/2020 Vehicle#
Payment Type Credit Account Containe
Manual Ticket# Driver
Route Check#
Hauling Ticket# Billing#

Vehicle# NA
Container
Driver
Check#
Billing# 0000688

CWM

Grid

Destination

PO#

Time
In 07/17/2020 11:01:01 P
Out 07/17/2020 11:01:01

Scale MANUAL WT Operator awalke13 awalke13 * Manual Weight Inbound Gross 78380 lb*
Tare 36120 lb*
Net 42260 lb
Tons 21.13

Comments

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	21.13 1.00 21.13	Each				

Total Tax Total Ticket

216329

NOT VALID UNLESS IMPRINTED

Gross

10:53 am 06/23/20

Card ID: 8033

102120 lb

34200 lb Tare

Gross

67920 1b Net

Net

Tare

Date Truck No.

1-27-7020 18-1

Consignee

006524502

Weigher

CZ6x803764

Weighed on the Scales

Providence & Worcester Railroad Co.

382 Southbridge St. Worcester, Mass 01610 (508) 755-4000

ease print or type.	1 (3.15.11)	-				1			CW
The State In Land Books	Generator ID Number	2. Page 1 of 3	. Emergency Respons	se Phone	4 Manifee	F. Tracking	orm Approve	ed. OMB No	. 2050-0
5. Generator's Name and Mailing A	MAD019426238	3	(800)	124_020	n """	065	245	020	RF
CITY OF LAW 207 MARSTO	WRENCE (ATTN:PEDRO	SOTO)	nerator's Site Address	s (if different	than mailing addre	ess)			וטו
Generator's Phone: 6. Transporter 1 Company Name	(978)620-3501841					2	11,3	129	
2 3 31 120	RUCKING INC.				U.S. EPA ID		C30006	Rnoo	
PROVIDENC	CE & WORCESTER RAILRO	AD			U.S. EPA ID	Number			
8. Designated Facility Name and Sit Facility's Phone (205) 652-97	CHEMICAL WAS HIGHWAY 17 NO	STE MANAGEM	ENT, INC. ARKER 163	1	U.S. EPA ID I	Number	D05902		
9a. HM 9b. U.S. DOT Description (in and Packing Group (if any))	ncluding Proper Shipping Name, Hazard Class, ID N	Number,	10. Contair	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	s
RQ,UN3077,E SUBSTANCE,	NVIORONMENTALLY HAZA SOLID,NOS.(POLYCHLORI	RDOUS NATED	001	DT	19/69	_K	MA02		
RQ,UN3077,E SUBSTANCE, BIPHENAL S	OLID),9,PGIII	4084124	L		دمهمد				
3		= = =							
		1 28			*		1 1		
4.									
CZG+ 80	3764		4				11		
1.APPROVAL#408 OUT OF SERVICE Weight is estimate	3412AL OUT OF SERVICE [EDATE:06/19/2020 ed in KG.		0 CWM Re mani Excavat	cord De fest cop ing Cor	pt. please by to Attn; I p. 14 Ster	mail to Dan Willing Ro	he facilit /alsh W. d. Billeri	ty to ge L. Fren ca, MA	nerati nch .0186:
1.APPROVAL#408 OUT OF SERVICE Weight is estimate ERI PROVIDER: C 15. GENERATOR'S/OFFEROR'S marked and labeled/placarded, a Exporter, I certify that the conten	8412AL OUT OF SERVICE IS DATE: 08/19/2020 and in KG. CHEMTREC (CONTRACT CONTRACT CON	CN24117) s of this consignment are ful ort according to applicable i	Excavat ly and accurately desinternational and national and national and national and national accurate of Consent.	rest cop	p. 14 Ster by the proper ship ental regulations.	Jan W ling Ro	alsh W. J. Billeri	L. Frenca, MA	1ch .0186:
1.APPROVAL#408 OUT OF SERVICE Weight is estimate ERI PROVIDER: C 15. GENERATOR'S/OFFEROR'S marked and labeled/placarded, a Exporter, I certify that the conten	3412AL OUT OF SERVICE IS DATE: 08/19/2020 at in KG. CHEMTREC (CONTRACT CONTRACT CONT	CN24117) s of this consignment are ful ort according to applicable i	ly and accurately desinternational and natioent of Consent or (b) (if Lan a small	rest cop	p. 14 Ster by the proper ship ental regulations.	Jan W ling Ro	alsh W. J. Billeri	L. Frenca, MA sified, packa am the Prima	ged, ry
1.APPROVAL# 408 OUT OF SERVICE Weight is estimate ERI PROVIDER: 15. GENERATOR'S/OFFEROR'S C marked and labeled/placarded, a Exporter, I certify that the conten I certify that the waste minimizati	B412AL OUT OF SERVICE IS DATE:08/19/2020 and in KG. CHEMTREC (CONTRACT CO EXTRIBUTION: I hereby declare that the contents and are in all respects in proper condition for transpis of this consignment conform to the terms of the atom statement identified in 40 CFR 262.27(a) (if I are a meaning to the content of the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identified in 40 CFR 262.27(a) (if I are a meaning to the content identif	N24117) s of this consignment are ful ort according to applicable i attached EPA Acknowledgm n a large quantity generator	ly and accurately desinternational and nationent of Consent, or (b) (iff and a small	cribed above nal government quantity gen	p. 14 Ster by the proper ship ental regulations.	Jan W ling Ro	Alsh W. d. Billeri d. and are clas ipment and I a	L. Frenca, MA	ged, ry
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CWMI Please print or type. UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number Form Approved. OMB No. 2050-0039 22. Page 2 23. Manifest Tracking Number (Continuation Sheet) 006574502 6BF MAD010428238 24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE M/ MA 01841 Company Name U.S. EPA ID Number CSX TRACNSPORTATION INC. FLD006921340 **9** Company Name U.S. EPA ID Number ALABAMA AND GULF COAST RAILWAY ALR000046706 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 28. Containers and Packing Group (if any)) НМ 29. Total 30. Unit Wt./Vol. 31. Waste Codes No. Quantity Туре GENERATOR CTAX 803764 33. Transporter 33. Transporter
Printed/Typed Name

34. Transporter
Printed/Typed Name Acknowledgment of Receipt of Materials Signature Day Year Acknowledgment of Receipt of Materials Signature Month Day 35. Discrepancy DESIGNATED FACILITY 36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

se print or type. UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number	22. Page 3	23. Manif	fest Tracking N	Form /	Approved. OMB No. 2050-
(Continuation Sheet)	nf.				2 GBF
CITY OF LAWRENCE 207 MARSTON STREET	· 01	8'			92.
25. Transporter 5 Company Name CHEMICAL WASTE MANAGEMEN	IT, INC.		U.S. EPA ID		000622464
26. Transporter Company Name			U.S. EPA ID		
27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,	28. Conta	iners	29. Total	30. Unit	
HM and Packing Group (if any))	No.	Туре	Quantity	Wt./Vol.	31. Waste Codes
- A				-	
			4	= -	
CELX 803764					7
2. Special Handling Instructions and Additional Information					
3. Transporter Acknowledgment of Receipt of Materials rinted/Typed Name Signa	ture	177	ask		Month Day Yea
I. TransporterAcknowledgment of Receipt of Materials inted/Typed Name Signa		1/4			Month Day Year
5. Discrepancy	,	7 4.52			
i. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, a	nd recycling systems)				
ì					

CWM, INC EMELLE	**** Receipt #	Page -
Date/Time In 7/17/20 10:13 Load Type Dumps Federal EPA Transporter CHEMICAL WASTE MGMT INC EMELLE AL	ID ALD0008522454	** WEIGHT SUMMARY ** Gross 78380.00 Tare 36/20.00 Net 1/22/60.00
Truck Number 653473	63	Net 42260.00 Adj. Net .00
Rcpt Doc Document Profile Profile Generator Cat C Ln# Ln# Number Sales Invoicing Customer # C	nt Total W DCS Sched Federal El ode Quan. W Units PCB Cat Waste Stat	19169 Kg
1 1 006524502GRF 406412AL CITY OF LAWRENCE 1 LAWRENCE MA Doc Seq # 1 ENE .M L FRENCH EXCAVATING CORP >51% OR <51% DEBRIS (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE) >51% OR <51% NAC 10% INSPECTION (CIRCLE) BULK MATERIAL ONLY:	DT 38803.00 K SUBCC Value P.Q. Num	inable 053122-0031 COD Reg'd
SAMPLED/INSPECTED SELECT MATERIAL/MON-SELECT MATERIAL	FREE LIQUIDS DETECTED? YES / WIND DISPERSAL MATERIAL? YES /	
PHYSICAL DESCRIPTION OF WASTE:		ER/APPROVAL
COMPAT, TEST W/ OR RXB		
ADD'L SPOT SAMPLE ATTACHED? Y M DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 P-ST-5/PT ST-8 ST-8/PT MIC MAC (MAC INSPECT) F INC P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8 INDICATOR PARAMETER VILL BE CIRCLED B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LE BE RETURNED TO LAB AND PLACED ON HOLD.	SP-VS PCB-NAC P-NAC	
RELEASED FOR DISPOSAL BY:	ATE:	



Time

CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Reprint Ticket# 37701

76880 lb*

Ph: 205-652-9721

Gross

Inbound

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Vehicle# NA Ticket Date 07/17/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination Grid PO#

Scale

In 07/17/2020 11:02:20 Out 07/17/2020 11:02:20 32020 lb* Tare MANUAL WT awalke13 44860 lb awalke13 Net 22.43

Operator

* Manual Weight Tons

Comments

Prod	uct 	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	22.43 1.00 22.43	Each				

Total Tax Total Ticket

WEIGH SLIP

NOT VALID UNLESS IMPRINTED

Gross

02:14 pm 06/23/20

Card ID: 8033

102900 lb Gross 34000 lb Tare

68900 lb Net

Net

Tare

Date

Truck No.

6-23-20

18-11

Consignee

006524508

Weigher

CE6x 803764

Weighed on the Scales

of

Providence & Worcester Railroad Co.

382 Southbridge St. Worcester, Mass 01610 (508) 755-4000

	1		1. Generator ID Number	2. Page 1 of	1 2 E-	nergency Respon			Fo	rm Approve	d. OMB No.	2050-003
,	11-	WASTE MANIFEST Generator's Name and Mailing	MAD019426238	Jan ago i o	J 0. L			4. Manife	165	7775	08 _G	DE
1	\prod	CITY OF LA	g Address		Gener	ator's Sife Addres	124_930 is (if different	than mailing addr	ress)		o o G	BF
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1	G	enerator's Phone RENCE	MA 01841						. 3	307	En a	, -
	6.	Transporter 1 Company Name			_			II C EDAID	4	3	221	633
	7	GOULET 7 Transporter 2 Company Name	TRUCKING INC.					U.S. EPA ID			W-10-2-11-2-1	
	1							U.S. EPA ID	MA(Number	230006	6038	-
	8.	Designated Facility Name and	NCE & WORCESTER RAILROAD Site Address						MAG	0059020	3004	
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П	1		CHEMICAL WASTE HIGHWAY 17 NORT	MANAGE H MILE	MEN	NT, INC.						
	Fa	cility's Phone(:205)652-9	1721 EMELLE AL 35459		VIA.	VEL 103		1	ALD	000622	464	
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	15.	ERI PROVIDER :	CHEMTREC (CONTRACT CCN24	1117)								
	15.	marked and labeled/placarded	CERTIFICATION: I hereby declare that the contents of this, and are in all respects in proper condition for transport accounts of this consignment conform to the terms of the other parts of the consignment conform to the large of the content	consignment are ording to applicat	fully an	d accurately desc	cribed above	by the proper ship	ping name,	and are class	ified, package	ed,
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	18b. <i>F</i>	Alternate Facility (or Generator)) a		Hidi	illoct Notor Grice 14	uniper	U.S. EPA ID Nu	mber			
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DESIGNATED FACILITY	19. Ha	zardous Waste Report Manage	ement Method Codes (i.e., codes for hazardous waste treatr	nent, disposal, an	d recyc	ing systems)						
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1	rinte	signated Facility Owner or Ope d/Typed Name	erator: Certification of receipt of hazardous materials covered	by the manifest Signati	_	as noted in Item 1	Ва	1	,	17 .	-	V
	_	Jammu	Thrash		21	min	, 1	1,0	1	Month 1	Day	Year
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se print or type. LINIFORM HAZARDOUS WASTE MANIEEST 21. Generator ID Number	100.5			Form	Approved. OMB No. 2050-0
(Continuation Sheet)	22. Page	2 ^{23. Mani}	ifest Tracking N	umber フレイス	8 BBF
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET	- 01	rgi C		700	
25. Transporter Z Company Name CSX TRACNSPORTATION INC.			U.S. EPA ID		
26. Transporter Company Name ALABAMA AND GULF COAST RAIL	AMY		U.S. EPA ID	Number	006921340
27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,	28. Cont	ainere	L	T	000046706
HM and Packing Group (if any))	No.	Туре	29, Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
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CZGX 80376Y					
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Discrepancy					
Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and	recycling systems)				
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UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number	22. Page 3	23. Manifest Tracking I	lumber	pproved. OMB No. 2050
24. Generator's Name MAD019426238	of (0065	14508	6BF
CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE MA 01841				l In
25. TransporterCompany Name CHEMICAL WASTE MANAGEME	NT, INC.	U.S. EPA II		000622464
26. Transporter Company Name		U.S. EPA II) Number	700022404
7a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Contair No.	ers 29. Total Type Quantity	30. Unit Wt./Vol.	31. Waste Codes
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liscrepancy				Month Day Yea
azardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal,	and recycling systems)	3	1	
8700-22A (Rev. 12-17) Previous editions are obsolete.	DESIG	NATED FACILITY T	O EDA's s.	MANIFEST SYSTE

(3)

CMM, INC EMELLE	556765 *****	Page - 1
Date/Time In 7/17/20 10:26 Load Type Dumps Federal EPA ID ALD00062240 Transporter CHENICAL WASTE NGHT INC EMELLE AL		** WEIGHT SURMARY ** Gross 76888.00 Tare 32 02 0.00 Net 44 45 60.00
Truck Number 3058 Trailer/Contar #1 707227 #2 #3		Net 44860.00 Adj. Net .00
Rcpt Doc Document Profile Profile Generator Cnt Cnt Total to Ln# Ln# Kumber Sales Invoicing Customer # Code Quan.	Units PCB Cat Waste Status	20348 kg
1 1 006524508GBF 406412AL CITY OF LAWRENCE 1 DT 31247.00 H LAWRENCE MA SUBCC Value	Kilogram Y PLF8 KS Undeterminable	053122-0031
Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP P.O. Num >51% OR <51% DEBRIS (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE) >51% OR <51% NAC 10% INSPECTION (CIRCLE)		COO Req'd
BULK HATERIAL ONLY:		
SAMPLED/INSPECTED FREE LIQUIDS D SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL	RTECTED? YES / NO MATERIAL? YES / NO	
PHYSICAL DESCRIPTION OF WASTE:	SAMPLER/APPRO	VAL
THE RESIDENCE OF THE PROPERTY		
SPOT SAMPLE: B20- PHYS. DESCRIPTION RAD. SCREEN POS NEG IGM. SCREEN POS NEG H20 SOL. S F PT/SOL H20 RXM/TEMP. INITIAL NO RXM REACTS H20 RXM/TEMP. SNIN. NO RXM REACTS CM SCREEN + - (PRUSSIAN BLUE) CN SCREEN + - (CYANTESHO) SULFIDE SCREEN 4 - ADDITIONAL ANALYTICAL REO'D? Y N DESCRIBE: PCB CONC. (PPM) SULFIDE (9030)		
	The second second	
PAINT FILTER TEST/ P F SPEC. GRAVITY BN2 CONC. CONNENTS: (SAFETY/OPERATIONAL)	PPH	
COMPAT. TEST W/OKRXW		
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 P-ST-5/PT ST-8 ST-8/PT HIC HAC (HAC INSPECT) F INC SP-VS PCB-MAC F 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% HUS BE RETURNED TO LAB AND PLACED ON HOLD.	HAC	
RELEASED FOR DISPOSAL BY: DATE:		
DATE:		



Time

CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Ph: 205-652-9721

Inbound

Reprint Ticket# 37702

73020 lb*

Volume

Gross

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM

Vehicle# NA Ticket Date 07/17/2020 Payment Type Credit Account Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination

Scale

Grid

PO#

Operator In 07/17/2020 11:03:33 Out 07/17/2020 11:03:33 Tare MANUAL WT awalke13 31980 lb* 41040 lb awalke13 Net 20.52

* Manual Weight Tons

Comments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	20.52 1.00 20.52	Each				

Total Tax Total Ticket

WEIGH SLIP

NOT VALID UNLESS IMPRINTED

Gross

01:59 pm 06/23/20

Card ID: 8033

108520 16

Gross

37200 lb

Tare

Tare

71320 lb Net

Net

Date

6/23/20

Truck No.

20-13

Consignee

006524509

Weigher

CE6x 803764

Weighed on the Scales

Providence & Worcester Railroad Co.

382 Southbridge St. Worcester, Mass 01610 (508) 755-4000

- 10	ase print or type.	Fr 2				For	m Approved. OMB	No. 2050-0039
	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MAD019426238	2. Page 1 of 8. E	Emergency Response (800)4	Phone 24-9300	4. Manifest Tracking 0065	^{Number} 24509	GBF
	5. Generator's Name and Mailin CITY OF LA	•• : : : : : : : : : : : : : : : : : :		erator's Site Address	(if different than n	nailing address)		
	207 MARST LAWRENCE Generator's Phone:	TON STREET E MA 01841 (978)620-3501						
Ш	6. Transporter 1 Company Nam	ne (Corrigination Corrigination Corriginatio			1	J.S. EPA ID Number	-	
П	7. Transporter 2 Company Name	TRUCKING INC.				J.S. EPA ID Number	C300066038	
	PROVIDE 8. Designated Facility Name and	ENCE & WORCESTER RAILE	OAD			J.S. EPA ID Number	D059020834	
	Facility's Phone (205) 652-	CHEMICAL W HIGHWAY 17	ASTE MANAGEMI NORTH, MILE MA 3459		, ,		0000822464	
	9a. 9b. U.S. DOT Description and Packing Group (if a	on (including Proper Shipping Name, Hazard Class, any))	ID Number,	10. Contain		11. Total 12. Unit Quantity Wt./Vol.	13. Waste (Codes
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	Weight is estim	s and additional information 408412AL OUT OF SERVIC ICE DATE:08/19/2020 nated in KG. R:CHEMTREC (CONTRACT)		0 CWM Re mani Excaval	cord Dept fest copy t ting Corp.	. please mail f o Attn: Dan V 14 Sterling R	the facility to Valsh W. L. F d. Billerica, I	generator rench VA.01862
	15. GENERATOR'S/OFFEROR marked and labeled/placard Exporter, I certify that the co	R'S CERTIFICATION: I hereby declare that the cor ded, and are in all respects in proper condition for tr contents of this consignment conform to the terms of mization statement identified in 40 CFR 262.27(a) (i)	ansport according to applicable in the attached EPA Acknowledgm	international and nation international and inter	onal governmental	regulations. If export sh	e, and are classified, phipment and I am the I	packaged, Primary
	Generator's/Offeror's Printed/Typ		Signature		la	*	7 . 7	Day Year
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ER	17. Transporter Acknowledgment	t of Receipt of Materials	0:1		ig 0.5			
POR	Transporter 1 Printed/Tipped Name	ichardson	Signature	IRA			Month	23 20
TRANSPORT	Transporter 2 Printed/Typed Nam	The section of the se	Signature 	the	1 Ca	MA		Day Year
1	18. Discrepancy 18a. Discrepancy Indication Space		1					
	Corrected	to record wt. Per	- Pan Wal	Residue Manifest Reference	OLDO (Partial Rejection	L Full	Rejection
ACILITY	18b. Alternate Facility (or General	ator)		- 1	U	.S. EPA ID Number		
DESIGNATED FACILITY	Facility's Phone: 18c. Signature of Alternate Facilit	ity (or Generator)					Month	Day Year
SIGN	19. Hazardous Waste Report Ma	anagement Method Codes (i.e., codes for hazardous		recycling systems)				
1	H132	2.	3.			4.		
	20. Designated Facility Owner or Printed/Typed Name	r Operator: Certification of receipt of hazardous mate	erials covered by the manifest ex	ccept as noted in Item	18a	/	Month	Day Year
EP/	A Form 8700-22 (Rev. 12-17)	Previous editions are obsolete.	40	DESI	GNATED FA	CILITY TO EPA	's e-MANIFES	T SYSTEM

CWMI Please print or type. UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number Form Approved. OMB No. 2050-0039 22. Page **2** 23. Manifest Tracking Number (Continuation Sheet) 006524509 GBF MAD010428238 24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET LAWRENCE M/ MA 01041 3 Company Name U.S. EPA ID Number CSX TRACNSPORTATION INC. FLD008921340 Company Name 26. Transporter _ U.S. EPA ID Numbe ALABAMA AND GULF COAST RAILWAY ALR000046706 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 27a. 28. Containers and Packing Group (if any)) 29. Total 30. Unit 31. Waste Codes No. Quantity Wt./Vol. Туре CECX 603764 32. Special 33. Transporter 33. Transporter Printed/Typed Name

34. Transporter
Printed/Typed Name

34. Transporter
Printed/Typed Name Acknowledgment of Receipt of Materials Printed/Typed Name Signature Day Year Acknowledgment of Receipt of Materials Signature Month Day 35. Discrepancy FACILITY 36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number (Continuation Sheet)	22. Page	23. Manife	est Tracking N	umber	oproved. OMB No. 20
24. Generator's Name CITY OF LAWRENCE 207 MARSTON STREET	of	<u>ی</u> ا	063	מצובי	1 GBF
25. TransporterCompany Name CHEMICAL WASTE MANAGEMEN	IT, INC.		U.S. EPA ID		00822464
6. Transporter Company Name			U.S. EPA ID	Number	
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azardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, an	d recycling systems)				

***** Receipt # 556767 ***** CWM, INC. - EMELLE Page -Date/Time In 7/17/20 10:39 ** WEIGHT SUMMARY ** Load Type Dunps Federal EPA ID ALD000622464 Gross 73020.00 Tare 3/980 .00 Transporter CHEMICAL WASTE MEMT INC EMELLE Net 4/040 .00 Truck Number 1887 Trailer/Contnr #1 707229 #2 Rcpt Doc Document Profile Profile Generator Cat Cat Total W DCS Sched Federal EPA Ln# Ln# Number Sales Invoicing Customer # Code Quan. V Units PCB Cat Waste Status ADEN # 1 1 006524509GBF 406412AL CITY OF LAWRENCE 1 DT 32345.00 K Kilogram Y PLFB KS Undeterminable LAWRENCE NA SUBCC Value - NA 053122-0031 Doc Seq # 1 EME 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: FREE LIQUIDS DETECTED? SAMPLED/INSPECTED YES / NO SELECT NATERIAL/NON-SELECT NATERIAL WIND DISPERSAL MATERIAL? YES / NO SAMPLER/APPROVAL PHYSICAL DESCRIPTION OF WASTE: 1 PHYS. DESCRIPTION SPOT SAMPLE: B20-RAD. SCREEN POS NEB IGN. SCREEN POS NES H20 SOL. S F PT/SOL H20 RXH/TEMP. INITIAL NO RXH REACTS H20 RXM/TEMP, 5MIN. NO RXM REACTS ph (PAPER) CH SCREEN + - (PRUSSIAN BLUE)_ CH SCREEN + - (CYANTESHO) SULFIDE SCREEN + -ADDITIONAL ANALYTICAL REO'D? Y_N_ DESCRIBE: PCB CONC. (PPN) SULFIDE (9030) CYANIDE (9010C) TAB WASTE Y W XH20 BY KF_ 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 SB1-PTA B-PIN OTHER P-ST-5/PT ST-8 ST-8/PT MIC 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:



Time

CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Ph: 205-652-9721

Reprint Ticket# 37703

Inbound Gross 75800 lb*

Customer Name WLFRENCHEXCAVATING 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

Scale

PO#

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

Operator

* Manual Weight

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

Ple	ase print or ty	ype.				Form Approved. OMB No. 2050						050-0039	
1		HAZAKDOUS	Generator ID Number		2. Page 1 o	f 3. Eme	rgency Response	Phone	4. Manifes	t Tracking N			
Ш	WASTE	MANIFEST	MAD01	9426238	1 3	3	(800)42	24-9300	: L 00	Gl	3F		
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Ш			ON STREET	4014									
П		AWRENCE hone:		1841									
Ш	6. Transporte	er 1 Company Name	*						U.S. EPA ID	Number			
Ш				AGEMENT, INC.							00062240	34	
Ш	7. Transporte	er 2 Company Name	•						U.S. EPA ID	Number			
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Н	o. Designated	u i aumty ivaine and		UELDON NAME			T 1515		U.S. EPA ID	Number			
П				HEMICAL WASTE I IGHWAY 17 NORTI							ANNE CONTRACTOR AND THE ANNE CONTRACTOR		
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GENERATOR]			ENTALLY HAZARDO (POLYCHLORINAT			001	DT		K	MA02		
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П	14 Special H	andling Instructions	and Additional Information	5/04									
П	1.AP	PROVAL#	406412AL OUT	OF SERVICE DAT	E:06/19	/2020	CWM Re	cord De	pt. pleas	e mail t	he facility	to ger	nerator
Ш	I OUT	OF SERVI	CE DATE:06/19 ated in KG.	/2020			mani	fest con	v to Attn	Dan W	Valsh W. [d. Billeric	Fren	ch I
Ш	ERIF	ROVIDER	:CHEMTREC (CONTRACT CCN24	1117)		Exces at	ung cor	p. 14 Die	mig ici	u. Dinerio	a, IVIA.	01002
П				eby declare that the contents of this									
Ш				n proper condition for transport acc conform to the terms of the attache				onal governm	ental regulation	s. If export sh	nipment and I am	the Primar	У
П	I certify	that the waste minir	mization statement identified	in 40 CFR 262.27(a) (if I am a larg	ge quantity ge	nerator) or		I quantity gen	nerator) is true.				
П	Generator's/C	Offeror's Printed/Typ	ed Name		Si I	gnature					Month	Day	Year
*	16 Internation	nal Shipments								~~~			Щ
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=		signature (for export	of Receipt of Materials				Date leavir	ig U.S.:		_			
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TRANSPORTE	,				- 1								
1	18. Discrepan	ncy											
П	18a. Discrepa	ancy Indication Spa	ce Quantity	Туре			Residue		Partial R	ejection		Full Rejec	tion
П	11	100	, 11							*.00-1.00-0			eases
Ľ	H4C	recv	eo wi	1		Ma	anifest Reference	Number:	ILC EDAID	Mumhar			
15	18b. Alternate	Facility (or Genera	itor)						U.S. EPA ID	Number			
ACI	Facility's Dha								ī				
	Facility's Photo 18c. Signature	ne. e of Alternate Facili	ty (or Generator)								Mont	n Day	Year
M			**	22								1	
DESIGNATED FACILITY	19. Hazardou	is Waste Report Ma	nagement Method Codes (i	e., codes for hazardous waste trea	atment, dispos	al, and rec	ycling systems)		******				
DES	1.	177	2.		3.				4.				
1	$\perp HI$	52						iti					
			Operator: Certification of re	ceipt of hazardous materials cover			ot as noted in Item	18a					
	Printed/Typec	Name	1 -t	20/	Si	gnature		11		/	Month	Day	Year
4	IG	unn	y //Iro	ish		<i>per</i>	nny	An	las	<u></u>	/	1//	20
EP.	4 Form 8700-	-22 (Rev. 12-17)	revious editions are of	solete.			1295	GNATED	FACILITY	TO EPA	's e-MANIF	ESTS)	SIEM

CWH, INC EMELLE	***** Receipt # *****	Page + 1
Date/Time In 7/17/20 10:52 Load Type Dumps Feder: Transporter CHEMICAL WASTE MGHT INC ENELLE AL Fruck Number 653475 Trailer/Contnr \$1 707045	al EPA ID ALD000622454 #2 #3	** WEIGHT SUMMARY ** Gross 75800.00 Tare 35700.00 Het 40100.00 Adj. Het 1818,9 RG
Rcpt Doc Document Profile Profile Generator Ln# Ln# Mumber Sales Invoicing Customer	Cnt Cnt Total W DCS Sched Federal # Code Quan. W Units PCB Cat Waste S	EPA tatus ADEN #
1 1 006451301GBF 406412AL CITY OF LAWRENCE LAWRENCE NA Doc Seq # 1 EME W L FRENCH EXCAVATING (>51% OR <51% DEBRIS (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE) >51% OR <51% NAC 10% INSPECTION (CIRCLE) BULK MATERIAL ONLY:	1 DT 1.00 K Kilogram Y PLFB ES Undeter SUBCC Value CORP P.O. Num	rminable 053122-0031 COD Reg'd
SAMPLED/INSPECTED_ SELECT MATERIAL/MON-SELECT MATERIAL_	FREE LIQUIDS DETECTED? YES	5 / NO 5 / NO
PHYSICAL DESCRIPTION OF WASTE:		MPLER/APPROVAL
SPOT SAMPLE: B20- RAD. SCREEN POS MEG IGM. SCREEN POS MEG H20 SOL. S F PT/SOL H20 RXM/TEMP. INITIAL NO RXM REACTS H20 RXM/TEMP. SMIN. NO RXM REACTS ICM SCREEN + - (PRUSSIAN BLUE) CM SCREEN + - (CYANTESMO) SULFIDE SCREEN + - ADDITIONAL AMALYTICAL RED'D! Y N DESCRIBE: PCB CONC. (PPM) SULFIDE (9030)		
XH20 BY RF CYANIDE (9010C) PAINT FILTER TEST/ P F SPEC. GRAVITY COMMENTS: (SAFETY/OPERATIONAL)	TAB WASTE Y N	
COMPAT. TEST W/ OK RXM		
ADD'L SPOT SAMPLE ATTACHED? Y N DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/P P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F I 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 RETURNED TO LAB AND PLACED ON HOLD.	NC SP-YS PCB-HAC P-HAC	
RELEASED FOR DISPOSAL BY:	DATE:	



Ph: 205-652-9721

Reprint Ticket# 37704

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Vehicle# NA Ticket Date 07/17/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination Grid PO#

Scale Inbound 73440 lb* Time Operator Gross In 07/17/2020 11:06:13 Out 07/17/2020 11:06:13 32000 lb* Tare MANUAL WT awalke13 awalke13 Net

41440 lb 20.72 * Manual Weight Tons

Comments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	TSCA DSP/TON - PCB REMED MFE-e-Manifest (Landfill TTN-TRANSPORTATION PER T	100	20.72 1.00 20.72	Each				

Total Tax Total Ticket

Р	ease	e print or type.									
,	l	JNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST	1	3. Em	ergency Respons		4. Manifes	Fo t Tracking	rm Approved. Number	OMB No	. 2050-0039
	5.	Generator's Name and Mailing Address	3		(800)4	24-930		645	1129	g (:	BF
		CITY OF LAWRENCE (ATTN:PEDRO SOT	3 (800)424-9300 006 451298 GBF Generator's Site Address (if different than mailing address)								
		207 MARSTON STREET	- /								
Ш	Ge	LAWRENCE MA 01841 enerator's Phone: (978)620-3501	1								
П	6.	Transporter 1 Company Name									
Ш		CHEMICAL WASTE MANAGEMENT, INC.					U.S. EPA ID	92FN 127577			
Ш	7.	Transporter 2 Company Name		-			II.C EDAID		00006224	64	
Ш	L						U.S. EPA ID I	Number			
Ш	8.	Designated Facility Name and Site Address		II C EDAID Montes							
Ш		CHEMICAL WASTE N	/ANAGE	U.S. EPA ID Number							
П		HIGHWAY 17 NORTH	H, MILE N	ARKER 163							
Ш	Fac	cility's Phon(:205)652-9721 EMELLE AL 35459		ALD000622464							
П	9a			10. Containers 11 Total 40 U.S.							
П	HM	1						13. W	Waste Codes		
18		RQ,UN3077,ENVIORONMENTALLY HAZARDO	US								
Z		SUBSTANCE, SOLID, NOS. (POLYCHLORINATE	ED		001	DT	12:707	K	MA02		
GENERATOR	H	BIPHENAL SOLID), 9, PGIII	408412	PAL			BI MI				
빙		, and the second									3
П											
П		3.		Н							
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П											
П		4.			-						
Ш											
Ш	44	Special Handling Instructions and Additional Information									
П	14.	1.APPROVAL# 406412AL OUT OF SERVICE DATE	-08/4D/D	200	CHAID-	I D-					
П			2.00/18/2	U2U	manif	cora De est con	pt. please iv to Attn: l	mail ti Dan W	ne facility falsh W T	to ge	nerator
П		Weight is estimated in KG. ERI PROVIDER :CHEMTREC (CONTRACT CCN24:	117)		Excavat	ing Cor	y to Attn: I p. 14 Ster	ling Ro	. Billeric	a, MA	01862
Ш		GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this of	consignment are	fully a	nd accurately desc	ovode hadre	by the proper chi	nning nama	and are alcouit	ad saaka	
П		marked and labeled/placarded, and are in all respects in proper condition for transport accor Exporter, I certify that the contents of this consignment conform to the terms of the attached	rding to applicat	de inter	national and nation	nal governm	ental regulations.	lf export shi	pment and I am	the Prima	ry
		I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large	quantity genera	gment tor) or	of Consent. (b) (if I am a small	quantity ger	erator) is true.				
Ш	Gen	erator's/Offeror's Printed/Typed Name	Signal						Month	Day	Year
+	40.1								- 1		
NT.			Export from U.S		Port of entry	y/exit:					
≝	_	nsporter signature (for exports only):			Date leaving U.S.:						
臣		Transporter Acknowledgment of Receipt of Materials sporter 1 Printed/Typed Name	Signat	uro					14. 11	-	
TRANSPORTE	/	D. RI.	Signat	T)	R	1		Month	Day	Year
NSI	Tran	isporter 2 Printed/Typed Name	Signat	ure	yan	2			Month	Day	Year
R			١		£.				1	1	1
<u>†</u>	18. E	Discrepancy		+				-			
	18a.	Discrepancy Indication Space Quantity Type		Г	Residue		Dodiel Dete	otion		E-II D-1	
	1	1 / coa · I · J		-	T L/GRINNE		Partial Reje	CUOTI		Full Reje	cuon
1	1	tad recved wi.		Ma	nifest Reference N	lumber:					
5	18b.	Alternate Facility (or Generator)					U.S. EPA ID No	ımber			
AC.	- "	7. J. D.					1				
		lity's Phone: Signature of Alternate Facility (or Generator)							Tuest	D	
ATE									Month	Day I	Year
DESIGNATED FACILITY	19. H	lazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatm	nent disnosal a	nd recy	clina systeme)			****			
	1.	[I N N 2.	3.	- 100y	and observed		4.				
		411'50									
		Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered	by the manifest	except	as noted in Item 1	18a		-			
	Printe	ed/Typed Name	Signat	yt.			91	/	Month	Day	Year
+		Januny Mrash	0	a	mm	40	Ma	S		117	10
EPA	Form	n 8700-22 (Rev. 12-17) Frevious editions are obsolete.	-1		DESIG	NATED	FACILITY T	O EPA'	s e-MANIF	EST S	STEM



CWM, THC EMELLE ***** Receipt #	Page -
Date/Time In 7/17/20 11:15 Load Type Dumps Federal EPA ID ALDRO0622464 Transporter CHENICAL WASTE MGHT INC EMELLE AL Truck Number 3057 Trailer/Contnr #1 707230 #2 #3	** WEIGHT SUMMARY ** Gross 73440.00 Tare 20 000 00 Net 41,440.00 Adj. 8,797,690 Adj. Net .00
Rcpt Doc Document Profile Profile Generator Cnt Cnt Total W DCS Sched Federal EPA Ln# Ln# Humber Sales Invoicing Customer # Code Quan. V Units PCB Cat Waste Status	ADEN #
1 1 006451290GBF 406412AL CITY OF LAWRENCE 1 DT 1.00 K LAWRENCE NA SUBCC Value Doc Seq # 1 ENE W L FRENCH EXCAVATING CORP P.O. Num >51% OR <51% DERRIS (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE) PREFILLED VAULT Y OR N (CIRCLE)	053122-0031 COD Req'd
SAMPLED/INSPECTED FREE LIQUIDS DETECTED? SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL MATERIAL? PHYSICAL DESCRIPTION OF WASTE: SAMPLER/APPR	OVAL_
SPOT SAMPLE: B20- PMYS. DESCRIPTION RAD. SCREEN POS NEG IGN. SCREEN POS NEG H20 SOL. S F PT/SOL H20 RXM/TEMP. INITIAL NO RXM REACTS H20 RXM/TEMP. 5MIN. NO RXM REACTS H20 RXM/TEMP. 5MIN. NO RXM REACTS CN_SCREEN + - (PRUSSIAN BLUE) CN_SCREEN + - (CYANTESNO) SULFIDE SCREEN + - ADDITIONAL AMALYTICAL REQ'D? Y N DESCRIBE:	
PCB CONC. (PPN) SULFIDE (9030) ER20 BY KF CYANIDE (9010C) TAB WASTE Y N PAINT FILTER TEST/ P F SPEC. GRAVITY BNZ CONC. PPN CONNENTS: (SAFETY/OPERATIONAL.)	
COMPAT. TEST W/ OK RXN	
ADD'L SPOT SAMPLE ATTACHEDY Y N DISPOSAL NETHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 SO1-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 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD. RELEASED FOR DISPOSAL BY: DATE:	



Time

CWM - Emelle 36964 Alabama Highway 17 Emelle, AL, 35459

Ph: 205-652-9721

Inbound

Gross

Reprint Ticket# 37707

1 lb*

Customer Name WLFRENCHEXCAVATING WL FRENCH Carrier CWM Vehicle# NA Ticket Date 07/17/2020 Payment Type Credit Account Volume Container Manual Ticket# Driver Route Check# Hauling Ticket# Billing# 0000688 Destination Grid

PO#

Scale

Operator In 07/17/2020 11:14:10 Out 07/17/2020 11:14:10 MANUAL WT awalke13 Tare awalke13 Net 1 lb

* Manual Weight Tons

Comments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	TSCA DSP/TON - PCB REMED TTN-TRANSPORTATION PER T		0.00					

Total Tax Total Ticket

Driver`s Signature

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 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 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 document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

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

Page 1 of 1 Manifest: 006524516GBF-1

Chemical Waste Management P.O. Box 55 36964 Alabama Hwy 17 Emelle, AL 35459-0055 (205)652-9721

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 14 STERLING ROAD

CITY OF LAWRENCE 207 MARSTON STREET

BILLERICA, MA 01862

LAWRENCE, MA 01841

Attn: DAN WALSH

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Al Talbott, Safety Manager

July 22, 2020

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 Description

 6/19/20
 006524515GBF-01
 1
 406412AL
 7/14/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006524515GBF-1

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 14 STERLING ROAD

CITY OF LAWRENCE 207 MARSTON STREET

BILLERICA, MA 01862

LAWRENCE, MA 01841

Attn: DAN WALSH

CERTIFICATE OF DISPOSAL

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Al Talbott, Safety Manager

July 22, 2020

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 Description

 6/19/20
 006524514GBF-01
 1
 406412AL
 7/15/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006524514GBF-1

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 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

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Al Talbott, Safety Manager

July 22, 2020

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 Description

 6/19/20
 006524513GBF-01
 1
 406412AL
 7/14/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006524513GBF-1

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

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Al Talbott, Safety Manager

July 22, 2020

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 6/19/20
 006524512GBF-01
 1
 406412AL
 7/14/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1

Manifest: 006524512GBF-1

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 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 006524509GBF-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, Safety Manager

July 22, 2020

 OSD
 Unique ID
 Cont #
 Profile
 Disposed
 Description

 6/19/20
 006524509GBF-01
 1
 406412AL
 7/17/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006524509GBF-1

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 14 STERLING ROAD

CITY OF LAWRENCE 207 MARSTON STREET

BILLERICA, MA 01862

LAWRENCE, MA 01841

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Al Talbott, Safety Manager

July 22, 2020

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 006524508GBF-01
 1
 406412AL
 7/17/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006524508GBF-1

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 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 006524507GBF-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, Safety Manager

July 22, 2020

 OSD
 Unique ID
 Cont #
 Profile
 Disposed
 Description

 6/19/20
 006524507GBF-01
 1
 406412AL
 7/15/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006524507GBF-1

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 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 006524506GBF-1

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Al Talbott, Safety Manager

July 22, 2020

 OSD
 Unique ID
 Cont #
 Profile
 Disposed
 Description

 6/19/20
 006524506GBF-01
 1
 406412AL
 7/15/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006524506GBF-1

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 14 STERLING ROAD CITY OF LAWRENCE 207 MARSTON STREET

BILLERICA, MA 01862

LAWRENCE, MA 01841

245

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 006524504GBF-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, Safety Manager

July 22, 2020

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 Profile
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 Description

 6/19/20
 006524504GBF-01
 I
 406412AL
 7/14/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006524504GBF-1

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 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 006524503GBF-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 document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Al Talbott, Safety Manager

July 22, 2020

 OSD
 Unique ID
 Cont #
 Profile
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 6/19/20
 006524503GBF-01
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 406412AL
 7/14/20
 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006524503GBF-1

Chemical Waste Management P.O. Box 55 36964 Alabama Hwy 17 Emelle, AL 35459-0055 (205)652-9721

Manifest Document Number:

Site Information

W.L. FRENCH EXCAVATING CORP 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 006524502GBF-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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Page I of I Manifest: 006524502GBF-I

Chemical Waste Management P.O. Box 55 36964 Alabama Hwy 17 Emelle, AL 35459-0055 (205)652-9721

Manifest Document Number:

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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

landfilled on the dates shown below, in compliance with State and Federal Regulations.

as described on Hazardous Waste Manifest Number 006451301GBF-1 Waste Management, Inc. hereby certifies that the above described material (excluding PCB liquids, if applicable) was

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Page 1 of 1 Manifest: 006451301GBF-1

Chemical Waste Management P.O. Box 55 36964 Alabama Hwy 17 Emelle, AL 35459-0055 (205)652-9721

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BILLERICA, MA 01862

LAWRENCE, MA 01841

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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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Page 1 of 1 Manifest: 006451298GBF-1

Manifest Document Number:

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BILLERICA, MA 01862

LAWRENCE, MA 01841

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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 006451049GBF-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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Page 1 of 1 Manifest: 006451049GBF-1

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LAWRENCE, MA 01841

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as described on Hazardous Waste Manifest Number 006451048GBF-1

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Page 1 of 1 Manifest: 006451048GBF-1

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Chemical Waste Management, Inc. (ALD000622464) has received PCB material from CITY OF LAWRENCE

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Al Talbott, Safety Manager

July 22, 2020

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 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006451047GBF-1

Chemical Waste Management P.O. Box 55 36964 Alabama Hwy 17 Emelle, AL 35459-0055 (205)652-9721

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BILLERICA, MA 01862

LAWRENCE, MA 01841

Attn: DAN WALSH

CERTIFICATE OF DISPOSAL

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as described on Hazardous Waste Manifest Number 006451046GBF-1
Waste Management, Inc. hereby certifies that the above described material (excluding PCB li

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 PCB REMEDIATION WASTE SOIL

Page 1 of 1 Manifest: 006451046GBF-1

Form Approved. OMB No. 2050-0039 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone Please print or type. 006360548 1. Generator ID Number UNIFORM HAZARDOUS 800 899-4672 MAD018426238 Generator's Site Address (if different than mailing address)
City of Lawrence WASTE MANIFEST Att Pedro Soto 5. Generator's Name and Mailing Address City of Lewrence 207 Marston Street Lawrence MA 01840 12 Methuen Street Lawrence MA 01840 U.S. EPA ID Number Generator's Phone: MAC300098399 6. Transporter 1 Company Name NRC East Environmental Services, Inc. U.S. EPA ID Number 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 VTR000517052 WILLISTON VT 06496 Facility's Phone: 802 860-1200 10. Containers 11. Total 13. Waste Codes 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, Wt./Vol. Quantity No. Type and Packing Group (if any)) **VT01** MAO2 UN3432, Polychlorinated biphenyls, solid K GENERATOR 9, PGII DM 1)(S,T) Profile# 83982 VT-0820-37763 ERG#171 14. Special Handling Instructions and Additional Information 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. Year Signature Generator's/Offeror's Printed/Typed Name Port of entry/exit: __ Export from U.S. Import to U.S. Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Signature Transporter 1 Printed **TRANSPOR** Month Signatu Transporter 2 Printed/Typed Name 18. Discrepancy __ Full Rejection Partial Rejection Residue Туре 18a. Discrepancy Indication Space Quantity Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Day Year Month Facility's Phone: 18c. Signature of Alternate Facility (or Generator) DESIGNATED 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H141 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Month Signature