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RTN 3-18126

Self-Implementing Polychlorinated Biphenyl Cleanup and Disposal Plan

Former Tombarello Property – Lot 1, Northwest Portion
207 Marston Street, Lawrence, Massachusetts

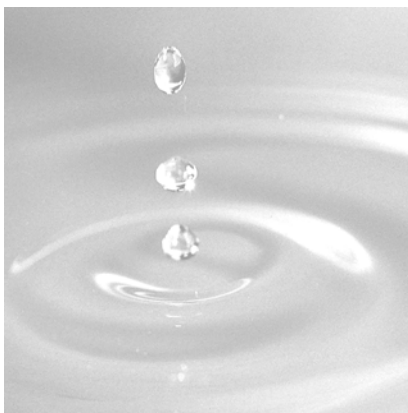
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Executive Summary

GEI Consultants, Inc., on behalf of the City of Lawrence, prepared this Self Implementing Polychlorinated Biphenyl (PCB) Cleanup and Disposal Plan (Cleanup Plan) for the removal and offsite disposal of PCB contaminated asphalt and soil on the northwest portion of Lot 1 (the Site) at 207 Marston Street in Lawrence, Massachusetts. The objective of the Cleanup Plan is to achieve ≤ 1 part per million (ppm) PCBs in soil and removal of PCB-contaminated asphalt pavement.

This Cleanup Plan has been prepared to meet the requirements for the notification of self-implementing onsite cleanup and disposal of PCB remediation waste under 40 CFR §761.61(a) of the Toxic Substances Control Act (TSCA; 40 CFR Part 761). We are also requesting approval under 40 CFR §761.61(c) for a deviation from the verification sampling frequency requirements of Subpart O of the TSCA regulations, and approval for the offsite disposal of excavated soil at an out-of-State lined landfill as non-hazardous waste (Subtitle D landfill) in accordance with 40 CFR §761.61(a)(5)(v)(A)(2).

Site Description

207 Marston Street, owned by the City of Lawrence, is subdivided into two lots, Lot 1, a 2.6-acre parcel, and Lot 2, an 11.4-acre parcel. Both lots are vacant. The Site that is the subject of this Cleanup Plan is an approximately 11,000 square foot area on the northwest portion of Lot 1. The Site is paved with asphalt and the only structure on the Site is a small shed.

The 207 Marston Street property is owned by the City of Lawrence, which acquired the property in May 2016 through foreclosure of tax title. A metals recycling facility operated at the property from about 1941 through 2001.

Site Characterization

The Site is a portion of a Massachusetts Department of Environmental Protection (MassDEP) disposal site assigned Release Tracking Number (RTN) 3-18126, which encompasses both Lots 1 and 2 (Disposal Site). Primary contaminants are PCBs, metals, and petroleum hydrocarbons in soil. PCBs greater than 100 ppm have been detected in soil on Lot 2 and up to 24 ppm PCBs have been detected in soil on the portion of Lot 1 south of the Site.

The highest PCB concentration detected in Site soil is 0.4 ppm and the highest PCB concentration in Site asphalt is 1.6 ppm. However, PCBs at 3 ppm were detected in soil about 5 ft south of the Site.

Contamination has been attributed to the historic use of the property as a metals recycling facility.

Cleanup Plan

The City's ultimate objective is to further subdivide Lot 1 to separate the Site from the remainder of Lot 1. The Site may be redeveloped for future use as a green space, mixed use (retail/residential), or commercial use; however, development plans have not yet been prepared.

Because of the proximity to the Site of PCBs in soil at 3 ppm; the presence of 1.6 ppm PCBs in a Site asphalt sample; and because the source of Site PCBs was historic activities on Lot 2 where PCBs are greater than 50 ppm, the removal of Site asphalt and soil at southern portion of the Site is subject to 40 CFR 761.61.

The City plans to clean up Site soil to PCB levels consistent with the TSCA cleanup level for a *high occupancy area* without restrictions, and to contaminant levels that pose No Significant Risk to a future receptor consistent with the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). The cleanup plan includes work that is subject to both TSCA and the MCP, as well as work that is subject only to the MCP. The work that is subject only to the MCP includes excavation of an area at the northeast corner of the Site where extractable petroleum hydrocarbons (EPH) and lead are elevated, but PCBs are less than 1 ppm. This work is not discussed in detail in this Cleanup Plan.

This Cleanup Plan addresses the removal of asphalt from the entire Site and soil at the southern portion of the Site. Key components of the cleanup plan include:

- Removal and offsite disposal of asphalt at a Subtitle D landfill.
- Excavation and offsite disposal of soil at a Subtitle D landfill.
- Soil verification sampling for PCBs at a frequency of one excavation sidewall sample (from each sidewall) and one excavation bottom sample every 10 linear feet.
- Placement of a geotextile separation layer, backfilling with clean imported fill, and seeding.
- Construction of a new fence along the subdivision boundary to separate the Site from the remainder of Lot 1.

The northwest portion of Lot 1 may be subdivided by the City in the future. Although a deed restriction will be recorded for the Site to meet MCP requirements to restrict access to other contaminants in soil at depth (primarily lead), a TSCA deed notice is not planned as the PCB cleanup objective is ≤ 1 ppm.

1. Introduction

GEI Consultants, Inc., on behalf of the City of Lawrence, prepared this Self Implementing Polychlorinated Biphenyl (PCB) Cleanup and Disposal Plan (Cleanup Plan) for the northwest portion of Lot 1 (the Site) at 207 Marston Street in Lawrence, Massachusetts. The objective of the Cleanup Plan is to achieve ≤ 1 part per million (ppm) PCBs in soil and removal of PCB-contaminated asphalt pavement.

1.1 Site Description

The Site that is the subject of this Cleanup Plan is an approximately 11,000-square foot portion of Lot 1, a 2.6-acre parcel at 207 Marston Street in Lawrence, Massachusetts (Fig. 1 and 2). Lot 1 is part of a larger Massachusetts Department of Environmental Protection (MassDEP)-listed disposal site identified by Release Tracking Number (RTN 3-18126) (the Disposal Site) that includes the adjacent 11.4-acre Lot 2, also identified by the address 207 Marston Street (Fig. 2). In 2016, the Disposal Site, which is owned by the City of Lawrence, was subdivided into two lots, Lot 1 and Lot 2.

The Site is in a mixed-use area of Lawrence, Massachusetts Lawrence and is abutted by Marston Street to the west; an elementary school across Marston Street; Hoffman Avenue to the north; a residential property to the east; and the remainder of Lot 1 to the south. Both Lots 1 (including the Site) and 2 are vacant and access is restricted by a gated and locked chain link fence.

The Site is paved, and a small shed is on the northeast portion of the Site. Current Site conditions are shown in Fig. 2. The City may sub-divide Lot 1 in the future to separate the Site from the remainder of Lot 1. The Site may be redeveloped for use as a green space, mixed use (retail/residential), or commercial use.

1.2 Site Use and Ownership History

The 207 Marston Street property (Lots 1 and 2) is owned by the City of Lawrence, which acquired the property in May 2016 through foreclosure of tax title. Since 2001, the property has been vacant, except for a truck driving school, which operated for a short time in 2006.

A metals recycling facility (John C. Tombarello & Sons followed by American Recycling of Massachusetts, Inc.), operated at the property from about 1941 through 2001. Structures associated with the metals recycling operations included a scale house, metals shop/garage, furnace building, baler/press building, small shear and large shear buildings, most of which are located on Lot 2. A mobile car crusher also operated on Lot 2. A residential structure on Lot 1 was the home of a member of the Tombarello family.

The only structure on the northwest portion of Lot 1 (the Site) was and is a small shed-like structure that was a small office space. Based on a review of historic aerial photographs obtained from the Massachusetts Department of Transportation (MassDOT), the Site was paved sometime between 1957 and 1973.

Prior to development as a metal recycling facility, the northern portion of the property was farmland.

1.3 Background

Site contamination was initially identified on Lot 2 in 1998 during subsurface investigations for an ASTM Environmental Site Assessment (ESA). Polychlorinated biphenyls (PCBs) were identified in surface soil on Lot 2 at concentrations representing a potential Imminent Hazard (IH) condition under the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). The Massachusetts Department of Environmental Protection (MassDEP) assigned RTN 3-18126 in March 1999 and required that an Immediate Response Action (IRA) be conducted to address the potential IH Condition. The IRA included installation of a fence at the Site perimeter, including Lot 1, to restrict access and eliminate the IH Condition; the fence remains in place.

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 the Site in 2020 by GEI on behalf of the City of Lawrence.

In 2017, the City of Lawrence received an EPA Brownfields Cleanup Grant (Grant # BF00A00375) for Lot 1, which expires at the end of September 2020. Based on the distribution of contaminants on Lots 1 and 2, the City has concluded that the best use of cleanup grant funds available for Lot 1 is to clean up the northwest portion of Lot 1 (the Site) to meet the Toxic Substances Control Act (TSCA; 40 CFR Part 761) cleanup levels consistent with a *high occupancy area* without restrictions for future use as a green space, mixed use (retail/residential), or commercial use. The City plans to subdivide Lot 1 to separate the Site from the remainder of Lot 1 (Fig. 2).

The City plans to include the remainder of Lot 1 and Lot 2 in a future TSCA Risk-Based PCB Cleanup Plan for 207 Marston Street, as the City envisions the remainder of Lot 1 and Lot 2 being developed together for future commercial/light industrial use.

Although PCBs have not been detected in Site soil greater than 1 part per million (ppm), we are submitting this Cleanup Plan to comply with TSCA because:

- The source of Site contamination is PCBs from Lot 2 of which some of the PCB concentrations in soil are greater than 50 ppm.
- PCBs at 3 ppm were detected in a soil sample collected about 5 ft south of the Site.
- PCBs were detected in a Site asphalt sample at greater than 1 ppm.

1.4 Purpose

This document meets the requirements of 40 CFR §761.61(a) of TSCA for a Notification and Certification to the EPA Regional Administrator of a Self-Implementing On Site Cleanup and Disposal of PCB remediation waste. We are also requesting approval under 40 CFR §761.61(c) for a deviation from the verification sampling frequency requirements of Subpart O of the TSCA regulations. This deviation does not pose an unreasonable risk of injury to health or the environment because we understand the distribution of PCB contamination based on past site uses and areas of likely historic operations.

This Cleanup Plan summarizes the data collected to characterize PCB concentrations in Site soil and asphalt and documents a cleanup plan that will achieve residual concentrations of PCBs remaining in the soil at ≤ 1 ppm consistent with the TSCA cleanup level for use as a *high occupancy area* without restrictions. It also requests approval for disposal of asphalt and soil at a Subtitle D Non-Hazardous Waste Landfill (PCBs <50 ppm) in accordance with 40 CFR §761.61(a)(5)(v)(A)(2).

In accordance with 40 CFR 761.61(a)(3), this notification includes the following information:

- A discussion of the nature of the contamination.
- A summary of procedures used to sample contaminated materials including a figure showing sample locations and concentrations of PCBs in pre-cleanup characterization samples.
- A discussion of the extent of the identified contaminated area with a figure showing the location.
- A cleanup plan for the Site, including a schedule, description of technology, and approach.
- Written certification signed by the owner of the property (Appendix A).

1.5 Submittals

The written certification required under §761.61(a)(3)(E) signed by a representative of owner of the property where the cleanup will be conducted, The City of Lawrence, is in Appendix A.

In accordance with §761.61(a)(3), at least 30 days prior to the date that cleanup begins, written notification and certification must be made to the EPA Regional Administrator, the Massachusetts Department of Environmental Protection (MassDEP), and director of the county or local environmental protection agency where the cleanup will be conducted. In addition, because this plan is also subject to 40 CFR §761.61(c), we acknowledge that the cleanup cannot proceed until EPA issues a written decision.

A copy of this Cleanup Plan was submitted to MassDEP through eDEP, MassDEP's on-line filing system, using a BWSC126 Miscellaneous Document Transmittal form under RTN 3-18126. A copy of this Cleanup Plan was also submitted to the City of Lawrence Board of Health. Copies of the BWSC126 and letters transmitting the documents to MassDEP and the Lawrence Board of Health are in Appendix B. A Release Abatement Measure (RAM) Plan prepared to meet the requirements of the Massachusetts Contingency Plan (40 CFR 40.0000) will also be submitted to MassDEP, as required by the MCP, prior to beginning soil removal activities.

2. Site Characterization

Several investigations have been conducted at the Disposal Site since 1998. Below is a summary of investigations of PCBs in Site soil and adjacent to the southern portion of the Site. Investigations included collecting and testing soil, groundwater, and asphalt samples.

Investigation locations are shown in Fig. 3.

2.1 EPA Targeted Brownfields Assessment, Nobis (2016)

In 2016, Nobis, on behalf of EPA, completed a TBA at the Disposal Site to support the development of remedial alternatives. As part of the assessment one soil boring (NPA-01) was advanced on the Site and one soil boring (NPA-02) was advanced about 15 ft south of the Site. Soil boring logs are in Appendix C.

Soil samples were collected from depths of 0.5 to 2 ft and 2 to 3 ft. NPA-02 was also sampled at a depth of 6 to 7 ft. Samples were submitted to Eurofins/Spectrum Analytical in North Kingstown, Rhode Island for chemical testing. All samples, except for the sample from NPA-02 at 6 to 7 ft, were tested for PCBs. Some samples were also tested for extractable petroleum hydrocarbons (EPH) and/or metals. The sample from NPA-02 at 6 to 7 ft was tested for volatile organic compounds (VOCs).

The results of analysis of samples from NPA-01, which is on the Site, are in Table 1. The results of PCB testing of samples from NPA-02, which is south of the Site, are in Table 2. Lab data reports are in Appendix C.

Total PCB concentrations detected in Site soil samples (NPA-01) were 0.044 and 0.21 ppm.

Total PCB concentrations in the samples collected from NPA-02, south of the Site, were 0.13 and 7.1 ppm.

2.2 Supplemental Assessments, Credere (2019)

In September and December 2019, Credere, on behalf of the City of Lawrence, conducted investigations on Lot 1 to collect data to support a cleanup plan for the Site and the remainder of Lot 1.

2.2.1 September 2019 Investigations

Credere conducted the sampling and analysis in accordance with a Site-Specific Quality Assurance Project Plan (QAPP) Addendum to its Generic QAPP, dated August 26, 2019.

The September 2019 investigations included collecting asphalt and soil samples across Lot 1. Four soil borings (SB-1 through SB-4) were advanced on the Site and four asphalt samples (AS-1 through AS-4) were collected from the Site at the same locations as the soil borings. Asphalt samples were collected using an impact hammer drill from a depth of 0 to 0.5-inch and soil borings were advanced by a direct push drilling method (Geoprobe) to a depth of 10 ft. Boring logs are in Appendix D.

Soil samples were collected from depth intervals of 0 to 0.5 ft below the bottom of the asphalt surface, 1 to 2 ft, 3 to 5 ft, and 5 to 7 ft. The soil and asphalt samples were submitted to Alpha Analytical of Westborough, Massachusetts for chemical testing. Asphalt samples were tested for PCBs. All the soil samples, except for the samples collected from the 5 to 7 ft depth interval, were tested for PCBs. The 1 to 2 ft, 2 to 3 ft, and 5 to 7 ft samples were also tested for EPHs, VOCs, and Resource Conservation and Recovery Act (RCRA) 8 metals plus zinc. All PCBs were tested by EPA Method 8082A with manual Soxhlet extraction (EPA Method 3540C).

The soil sample chemical testing results are summarized in Table 1 and the asphalt sample chemical testing results are summarized in Table 3. Lab data reports are in Appendix D.

Total PCB concentrations detected in Site asphalt samples ranged from 0.184 to 1.61 ppm. Total PCB concentrations detected in Site soil samples ranged from 0.04 ppm to 0.4 ppm. The EPH fraction C₁₉-C₃₆ Aliphatics concentration of 56,800 milligram per kilogram (mg/kg) detected in SB-2 (5-7) exceeds the MCP Upper Concentration Limit (UCL).

2.2.2 December 2019 Investigations

In December 2019, Credere advanced an additional 10 borings, SB-5 through SB-15 to delineate known contamination. Soil boring logs are in Appendix C. The sampling and analysis was conducted in accordance with a November 27, 2019 Amendment to Credere's August 2019 SSQAP.

Soil borings SB-5 through SB-10 were advanced to delineate an EPH fraction UCL exceedance and elevated lead detected in soil samples from boring SB-2. Samples collected from these borings were tested for EPH and lead. None of the samples were tested for PCBs. Results of EPH and lead testing are in Table 1.

Borings SB-11 through SB-15 were advanced south of the Site to delineate a PCB concentration of 7 ppm in soil boring NPA-02 (collected by Nobis in 2016) at a depth of 2 to 3 ft. Soil boring NPA-02 was originally thought to be located on the Site. Therefore, samples were collected to delineate PCB concentrations greater than 1 ppm for future cleanup. However, based on field observations, soil boring NPA-02 is located about 15 ft south of the Site. Samples were collected from borings SB-11 through SB-15, locations surrounding NPA-02, at depth intervals of 1 to 1.5 ft, 2 to 3 ft, and 3 to 4 ft and submitted to

Alpha for PCB testing. Fifteen soil samples were tested for PCBs by EPA Method 8082A with manual Soxhlet Extraction (EPA Method 3540). Detected PCB concentrations in the samples ranged from 0.156 to 3.02 ppm; PCBs were greater than 1 ppm in only one sample, SB-12 at a depth of 1 to 1.5 ft (3.02 ppm). Results of PCB testing are summarized in Table 2 and the lab data report is in Appendix D.

2.3 Supplemental Assessment, GEI (2020)

The cleanup of the Site will be targeted excavation of EPH contaminated soil in excess of the UCLs and soil along the southern boundary of the Site, 5 ft wide and 3 ft deep, because PCBs are located near the southern boundary of the Site (SB-12). To characterize this soil for offsite disposal, on March 12, 2020, GEI collected soil samples from the planned excavation areas for offsite disposal characterization.

GEI conducted the sampling and testing in accordance with the Site-Specific Quality Assurance Project Plan Addendum No. 1, Revision 01 Former Tombarello Property, Lot 1 Cleanup, 207 Marston Street, Lawrence, Massachusetts,” dated March 11, 2020.

GEI retained Northern Drill Service, Inc. (NDI) of Northborough, Massachusetts to advance four soil borings at locations LOT1-DISP-01, LOT1-DISP-02A, LOT1-DISP-02B, and LOT1-DISP-02C. The borings were advanced using a direct push Geoprobe drilling method through a surface cover of about 3-inches of asphalt pavement. Boring logs are in Appendix C.

The soil boring LOT1-DISP-01 was in the area of the targeted EPH excavation and was advanced to a depth of 7 ft. A composite sample was collected from Lot1-Disp-01 by compositing soil collected from the boring across the 1 to 7-foot depth interval, which is representative of the soil planned for excavation.

The soil borings LOT1-DISP-02A, LOT1-DISP-02B, and LOT1-DISP-02C were advanced to a depth of 3 ft. Samples from Lot1-DISP-02A through C were collected across the depth interval 1 to 3 ft. Composite sample Lot1-Disp-02comp was collected by compositing soil from locations LOT1-DISP-02A, LOT1-DISP-02B, and LOT1-DISP-02C. A grab sample, Lot1-Disp02grab, was collected from Lot1-Disp-02B.

The samples were submitted to ESS laboratories of Cranston, Rhode Island for chemical testing. Lot1-DISP-01 was tested for VOCs, semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), PCBs, RCRA 8 metals, TCLP lead, ignitability, corrosivity, reactive cyanide and sulfide. Lot1-DISP-02comp was tested for SVOCs, PCBs, TPH, RCRA 8 metals, TCLP lead, ignitability, corrosivity, reactive cyanide and sulfide and Lot1-Disp02grab was tested for VOCs. All PCBs were tested by EPA Method 8082A with manual soxhlet extraction (EPA Method 3540).

The results of chemical testing are summarized in Table 4 and the laboratory data report is in Appendix D.

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.

3. Nature and Extent of PCB Contamination

Results of chemical testing of Site soil for VOCs, petroleum hydrocarbons, PCBs, and metals are in Table 1. Results of PCB testing of soil samples collected adjacent to the southern limit of the Site and asphalt samples collected from the Site are in Tables 2 and 3, respectively. Soil boring logs are in Appendix C and laboratory data reports are in Appendix D.

PCB concentrations in soil by depth intervals of 0 to 1 foot, 1 to 2 ft, 2 to 3 ft, and greater than 3 ft, are illustrated in Figs. 4 through 7. PCB concentrations in asphalt samples are shown in Fig. 8.

Site soil is fill consisting of sand with varying amounts of coal, ash, brick, and glass is present beneath the asphalt to a depth of about 7 ft. The primary contaminants in Site soil are PCBs, metals, and petroleum hydrocarbons. PCB aroclors detected are aroclors 1248, 1254, 1260, and 1268, with aroclor 1260 the most prevalent.

The maximum PCB concentration in Site soil is 0.44 ppm. PCBs at 3.02 ppm are at a depth of about 1 to 1 ½ ft about 5 ft south of the Site (SB-12) and at 7 ppm at a depth of 2 to 3 ft about 15 ft south of the Site (NPA-02).

The Site is covered with asphalt ranging in thickness from 3 to 10-inches. PCBs in Site asphalt range from 0.18 to 1.6 ppm (Fig. 8).

4. Cleanup Plan

The cleanup plan described in this Section applies only to the Site, the northwest portion of Lot 1, and will be conducted under an EPA Brownfields Cleanup Grant issued to the City of Lawrence for Lot 1. No cleanup is planned for the remainder of Lot 1. The contaminant conditions on the remainder of Lot 1 will be included in a future Risk-Based PCB Cleanup Plan (40 CFR 761.61(c)) that will be prepared for Lot 2.

4.1 Selected Cleanup Level

The City plans to develop the Site for use as a green space, or for mixed use including retail, multi-family residential, and/or commercial. Under these uses, the Site will meet the definition of a *high occupancy area*, as defined in 40 CFR 761.3. Therefore, a cleanup level of ≤ 1 ppm PCBs remaining in Site soil has been selected in accordance with §761.61(a)(4).

4.2 Key Cleanup Plan Elements

The objectives of the cleanup plan are to remove asphalt and Site soil with PCBs > 1 ppm (Fig. 9). Key elements of the cleanup plan include:

- Removal and offsite disposal of the asphalt surface cover.
- Removal and offsite disposal of soil from a limited area along the southern boundary of the Site.
- Collection of soil verification samples from the limits of the excavation along the southern boundary for PCB testing.
- Backfill of excavated areas with clean imported fill.
- Restoration of the Site including placement of topsoil and seed across the Site.
- Subdivision of Lot 1 to separate the Site from the larger portion of Lot 1.
- Installation of a fence at the southern boundary of the Site to separate the Site from the remainder of Lot 1. There is a fence on the northern, eastern and western limits of the Site.

In addition to the excavation and offsite disposal of soil along the southern boundary of the Site, an area at the northeast portion of the Site will be excavated to remove EPH contaminated soil that exceed the MCP UCL. This work is not subject to TSCA because PCBs in this area of the Site are less than 1 ppm. Therefore, the excavation and offsite disposal of soil from this area is not further addressed in this Cleanup Plan.

Because the Site is within the limits of a MassDEP-listed disposal site, the excavation and offsite disposal of soil from both excavation areas will also be documented in a Release Abatement Measure (RAM) Plan and RAM Completion Report submitted to MassDEP.

The City will select a contractor to perform the cleanup work. The City has retained GEI to document the cleanup and to collect verification samples to confirm that the selected cleanup levels in remaining soil have been achieved.

4.2.1 Work Area Preparation

Prior to beginning the work, the contractor will construct and maintain a Materials Management Area (MMA), temporary decontamination pad/wheel wash, and a privacy screen on portions of the existing perimeter fence. The MMA and temporary decontamination pad/wheel wash will be located within a paved area on the larger portion of Lot 1.

4.2.2 Exclusion Zone

The Site is currently enclosed by a gated and locked chain link fence. This fence line will serve as the Exclusion Zone.

4.2.3 Health and Safety

The contractor will be required to prepare a Health and Safety Plan (HASP) to meet Occupational Safety and Health Administration (OSHA) requirements for the remediation activities. GEI will prepare a HASP for the protection of its employees during the remediation activities.

4.2.4 Inspections and Air Monitoring

GEI will provide an on-site field engineer to observe the removal of PCB-impacted materials and to conduct verification sampling, where necessary.

GEI will conduct monitoring for airborne dust at the perimeter of the Site throughout the day when PCB removal work is being performed. If dust action levels exceed 150 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) or visible dust is observed leaving the Site, then the contractor will be required to implement additional dust control measures.

4.2.5 Asphalt Removal

The Contractor will remove the asphalt to the existing fence line to the north, east and west, and to the southern limit of the Site as shown in Fig. 9. The existing fence will remain in place. Removal of asphalt beyond the fence line is not planned.

Removed asphalt will be direct loaded into trucks for offsite disposal..

4.2.6 Soil Excavation

Following removal of asphalt, soil along the southern boundary of the Site will be excavated to a depth of 3 ft to the limits shown in Fig. 9. The excavation will be a minimum of 5 ft wide (north to south) and will extend to within about 5 ft of the fence lines to the east and west. The final limits of the excavation will be surveyed by the Contractor.

Excavated soil will either be placed into lined and covered containers or direct loaded into trucks for offsite disposal.

4.2.7 Management and Disposal of Generated Waste Materials

Excavated soil and removed asphalt will be disposed of at out of state Subtitle D Non-Hazardous Waste Landfill (PCBs <50 ppm) in accordance with 40 CFR §761.61(a)(5)(v)(A)(2).

Other waste materials requiring offsite disposal that will be generated as a result of the excavation work will include used PPE, tools and equipment that cannot be decontaminated, and decontamination wastes. These waste materials will also be managed and disposed of at an out-of-State lined landfill as non-hazardous waste (Subtitle D landfill) in accordance with 40 CFR §761.61(a)(5)(v)(A)(2). Decontamination water may be recharged to the ground if no other contaminants were introduced to the water and if PCB concentrations in the water are <0.5 micrograms per liter ($\mu\text{g/L}$).

4.2.8 Verification Sampling and Analysis

Soil verification samples will be collected as described in the Site-Specific Quality Assurance Project Plan (QAPP) Addendum No. 1, Revision 01, dated March 11, 2020, which was prepared for Lot 1 cleanup activities. Samples will be collected from the bottom and the north and south sidewalls of the excavation to verify that PCBs remaining are ≤ 1 ppm. Samples will be collected at a frequency of one sample from the bottom and one sample from each sidewall per 10 linear feet. Samples will be collected using hand tools such as a trowel. The samples will be submitted to ESS for PCB testing by Method 8082 (manual Soxhlet extraction).

If the PCB concentration in either a bottom or north sidewall verification sample exceeds the cleanup level of 1 ppm, an additional one foot of soil will be excavated between the adjacent samples that meet the cleanup level and a re-verification sample will be collected. If a PCB concentration in a south sidewall sample exceeds the cleanup level of 1 ppm, no additional excavation will be performed to the south and the Lot 1 subdivision line will be surveyed one-foot north of the southern limit of excavation. Plans for Lot 1 subdivision are further discussed in Section 4.3.

Field quality control (QC) samples will include field duplicate samples and equipment blanks. One field duplicate per 20 samples and one equipment blank per day will be collected. The field duplicates will be split samples collected from a single homogenized sample, submitted in separate containers, labeled differently, and analyzed separately. Information from the analysis of field duplicate samples will be used to evaluate the precision and representativeness of sampling procedures

4.2.9 Data Review and Validation

GEI will perform data validation on all laboratory data collected during the project as described in GEI's Brownfields Program Generic Quality Assurance Project Plan for Projects in Massachusetts, Rev. 01, dated May 6, 2019.

4.3 Site Restoration and Lot 1 Subdivision

At the completion of excavation, a geotextile separation layer will be placed at the base of the excavation and will extend up the south sidewall. The excavation will be backfilled with clean imported fill and the entire Site will be seeded.

The City may subdivide Lot 1 in the future to separate the Site from the remainder of Lot 1. The approximate proposed subdivision boundary is shown in Fig. 9. However, if PCBs are detected at greater than 1 ppm in the southern sidewall of the excavation, the proposed subdivision line will be surveyed a minimum of one-foot north of the southern boundary of the excavation.

A chain-link fence will be installed along the southern border of the Site at the approximate location shown in Fig. 9.

4.4 Equipment Decontamination

At the completion of the excavation work, the Contractor will decontaminate the excavator bucket in accordance with the self-implementing decontamination procedures for moveable equipment (§761.79[c]). All vehicles and equipment used to handle excavated soil will pass through the vehicle decontamination/wheel wash to remove solids from wheels prior to exiting the Site.

4.5 Documentation

GEI, on behalf of the City, will prepare a completion report documenting the cleanup activities. The completion report will include the following items:

- A summary of PCB cleanup activities.
- A photographic log.

- A description of any deviations from this Cleanup Plan.
- Contaminated materials shipping documents and manifests.
- Verification sampling analytical results.

4.6 Schedule

The cleanup work is planned to start in mid-May 2020, pending approval of the plan by EPA.

5. Limitations

This report was prepared for the use of the City of Lawrence, exclusively. The findings provided by GEI in this report are based solely on the information reported in this document. Future investigations or information that was not available to GEI at the time of this investigation may result in a modification of the conclusions stated above. This report has been prepared in accordance with generally accepted engineering and geohydrological practices. No warranty, expressed or implied, is made.

Tables

Table 1. Chemical Testing Results - Soil Samples
Former Tombarello Property - Lot 1, Northwest Portion
Lawrence, Massachusetts

Location Name		AS/SB-4	NPA-01	NPA-01	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10
Sample Name		SB-4 (5-7)-2	NPA-01	NPA-01	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10
Start Depth		5	0.5	2	7	8	6	7	6	8
End Depth		7	2	3	8	9	7	8	7	9
Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date		9/4/2019	6/10/2016	6/10/2016	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019
Parent Sample										
Analyte	Units	CAS No.								
Volatile Organic Compounds										
Acetone	mg/kg	67-64-1	0.48 J	NT	NT	NT	NT	NT	NT	NT
Total 1,2-Dichloroethene		540-59-0	< 0.0012							
cis-1,2-Dichloroethene		156-59-2	< 0.0012							
Methyl ethyl ketone (2-Butanone)		78-93-3	< 0.012							
Naphthalene		91-20-3	< 0.005							
Tetrachloroethene (PCE)		127-18-4	0.061							
Trichloroethene (TCE)		79-01-6	< 0.00062							
EPH Compounds										
C9-C18 Aliphatics	mg/kg	EPH918	ND	NT	NT	ND	ND	ND	ND	ND
C19-C36 Aliphatics		EPH1936	18.1	NT		< 10.5	16.4	26.1	340	40.4
C11-C22 Aromatics (Adjusted)		AROM11-22	21.9	NT		< 10.5	156	256	15.4	16
Acenaphthene		83-32-9	< 0.427	0.37 J		< 0.526	0.794	< 0.538	< 0.494	< 0.485
Anthracene		120-12-7	< 0.427	1.2 J		< 0.526	1.49	< 0.538	< 0.494	< 0.485
Benzo(a)anthracene		56-55-3	< 0.427	3.4 J		< 0.526	4.32	< 0.538	< 0.494	< 0.485
Benzo(b)fluoranthene		205-99-2	< 0.427	4.4 J		< 0.526	2.49	< 0.538	< 0.494	< 0.485
Benzo(k)fluoranthene		207-08-9	< 0.427	1.8 J		< 0.526	2.82	< 0.538	< 0.494	< 0.485
Benzo(g,h,i)perylene		191-24-2	< 0.427	1.7 J		< 0.526	2.01	< 0.538	< 0.494	< 0.485
Benzo(a)pyrene		50-32-8	< 0.427	3.3 J		< 0.526	3.58	< 0.538	< 0.494	< 0.485
Chrysene		218-01-9	< 0.427	3 J		< 0.526	4.8	< 0.538	< 0.494	< 0.485
Dibenz(a,h)anthracene		53-70-3	< 0.427	0.48 J		< 0.526	< 0.511	< 0.538	< 0.494	< 0.485
Fluoranthene		206-44-0	< 0.427	8 J		< 0.526	7.3	0.62	< 0.494	< 0.485
Fluorene		86-73-7	< 0.427	0.41 J		< 0.526	0.645	< 0.538	< 0.494	< 0.485
Indeno(1,2,3-cd)pyrene		193-39-5	< 0.427	1.9 J		< 0.526	1.98	< 0.538	< 0.494	< 0.485
Naphthalene		91-20-3	< 0.427	< 1.4		< 0.526	< 0.511	< 0.538	< 0.494	< 0.485
Phenanthrene		85-01-8	< 0.427	4.3 J		< 0.526	8.95	< 0.538	< 0.494	< 0.485
Pyrene		129-00-0	< 0.427	4.9 J		< 0.526	9.88	0.641	< 0.494	< 0.485
Polychlorinated Biphenyls (PCBs)										
Aroclor 1248	mg/kg	12672-29-6	< 0.104	0.21	< 0.037	NT	NT	NT	NT	NT
Aroclor 1254		11097-69-1	< 0.104	< 0.071	< 0.037					
Aroclor 1260		11096-82-5	< 0.104	< 0.071	0.044					
Aroclor 1268		11100-14-4	< 0.104	< 0.071	< 0.037					
Total PCBs		1336-36-3	< 0.104	0.21	0.044					
Metals										
Arsenic	mg/kg	7440-38-2	9.82	5.1	8.9	NT	NT	NT	NT	NT
Barium		7440-39-3	170	87	32	NT	NT	NT	NT	NT
Cadmium		7440-43-9	0.733	0.61	0.2	NT	NT	NT	NT	NT
Chromium		7440-47-3	11.9	18	13	NT	NT	NT	NT	NT
Hexavalent Chromium (Cr VI)		18540-29-9	< 1.06	NT	NT	NT	NT	NT	NT	NT
Lead		7439-92-1	96.0	350	100	110	1100	2800	240	25
Mercury		7439-97-6	< 0.097	0.83	0.27	NT	NT	NT	NT	NT
Selenium		7782-49-2	NT	0.83 J	0.73 J	NT	NT	NT	NT	NT
Silver		7440-22-4	< 0.527	< 1.2	< 1	NT	NT	NT	NT	NT
Zinc		7440-66-6	109	NT	NT	NT	NT	NT	NT	NT
Other										
Percent Solids	%	SOLIDS	75.3							
Oxidation Reduction Potential	millivolts	ORP	140							
pH	s.u.	pH	7.5							

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.

**Table 2. Chemical Testing Results - NPA-02 and Delineation Samples
Former Tombarello Property - Lot 1, Northwest Portion
Lawrence, Massachusetts**

Location Name			NPA-02	NPA-02	SB-11	SB-11	SB-11	SB-12	SB-12	SB-12	SB-13	SB-13	SB-13	SB-14	SB-14	SB-14	SB-15	SB-15	SB-15
Sample Name			NPA-02	NPA-02	SB-11 1'-1.5'	SB-11 2'-3'	SB-11 3'-4'	SB-12 1'-1.5'	SB-12 2'-3'	SB-12 3'-4'	SB-13 1'-1.5'	SB-13 2'-3'	SB-13 3'-4'	SB-14 1'-1.5'	SB-14 2'-3'	SB-14 3'-4'	SB-15 1'-1.5'	SB-15 2'-3'	SB-15 3'-4'
Start Depth			0.5	2	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
End Depth			2	3	1.5	3	4	1.5	3	4	1.5	3	4	1.5	3	4	1.5	3	4
Depth Unit			ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date			6/10/2016	6/10/2016	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019
Analyte	Units	CAS No.																	
Polychlorinated Biphenyls (PCBs)																			
Aroclor 1242	mg/kg	53469-21-9									0.0654	< 0.0408	< 0.0362	< 0.0354	< 0.0351	< 0.034	< 0.0364	< 0.0376	< 0.0361
Aroclor 1248		12672-29-6	0.13	7.1 J	< 0.036	< 0.0359	< 0.0362	< 0.398	< 0.0388	< 0.0403	< 0.0365	< 0.0408	< 0.0362	< 0.0354	< 0.0351	< 0.034	< 0.0364	< 0.0376	< 0.0361
Aroclor 1254		11097-69-1	< 0.037	< 7.2	< 0.036	< 0.0359	< 0.0362	< 0.398	< 0.0388	< 0.0403	< 0.0365	< 0.0408	< 0.0362	0.102	< 0.0351	< 0.034	< 0.0364	< 0.0376	< 0.0361
Aroclor 1260		11096-82-5	< 0.037	< 7.2	< 0.036	< 0.0359	< 0.0362	3.02	0.0775	< 0.0403	0.531	< 0.0408	< 0.0362	0.054	< 0.0351	< 0.034	0.132	< 0.0376	< 0.0361
Aroclor 1268		11100-14-4	< 0.037	< 7.2	< 0.036	< 0.0359	< 0.0362	< 0.398	< 0.0388	< 0.0403	< 0.0365	< 0.0408	< 0.0362	< 0.0354	< 0.0351	< 0.034	< 0.0364	< 0.0376	< 0.0361
Total PCBs		1336-36-3	0.13	7.1 J	< 0.036	< 0.0359	< 0.0362	3.02	< 0.0388	< 0.0403	< 0.0365	< 0.0408	< 0.0362	0.156	< 0.0351	< 0.034	0.132	< 0.0376	< 0.0361

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. Bolding indicates a result greater than 1 mg/kg.
4. mg/kg = milligrams/kilogram or parts per million (ppm)
5. CAS No. = Chemical Abstracts Service Number

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

**Table 3. Chemical Testing Results - Asphalt Samples
Former Tombarello Property - Lot 1, Northwest Portion
Lawrence, Massachusetts**

			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Location Name			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Sample Name			AS-1	AS-2	AS-2	AS-3	AS-4
Start Depth			0	0	0	0	0
End Depth			0.5	0.5	0.5	0.5	0.5
Depth Unit			in	in	in	in	in
Sample Date			9/3/2019	9/3/2019	9/3/2019	9/3/2019	9/3/2019
Parent Sample					AS-2		
Analyte	Units	CAS No.					
Polychlorinated Biphenyls (PCBs)	mg/kg						
Aroclor 1248		12672-29-6	< 0.0373	<0.0343	< 0.0381	< 0.0343	< 0.038
Aroclor 1254		11097-69-1	< 0.056	< 0.0515	< 0.0572	< 0.0514	< 0.057
Aroclor 1260		11096-82-5	0.986	0.508	1.61	0.184	0.354
Aroclor 1268		11100-14-4	< 0.0187	< 0.0172	< 0.019	< 0.0172	< 0.019
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.

Table 4. Chemical Testing Results - Soil Disposal Characterization Samples
Former Tombarello Property - Lot 1, Northwest Portion
Lawrence, Massachusetts

					Sample ID:	1802441-Lot1-DISP01	1802441-Lot1-DISP02-Grab	1802441-Lot1-DISP02-Comp
					Sample Location:	Lot1-DISP01	Lot1-DISP02B	Lot1-DISP02A, B, C (Composite)
					Sampling Date:	03/12/2020	03/12/2020	03/12/2020
					Sample Depth (ft):	1 - 7	1 - 3	1 - 3
					Lab Sample ID:	20C0466-01	20C0466-02	20C0466-03
Analyte	Method	Units	Reuse Levels for In-State Unlined Landfill	Reuse Levels for In-State Lined Landfill				
Volatile Organic Compounds (VOCs)	8260	mg/kg						NT
1,1,2,2-Tetrachloroethane			NS	NS	0.0059	< 0.0013		
Acetone			NS	NS	< 0.0068	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
Total SVOCs			100	100	26.425			68.194
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
Petroleum Hydrocarbons	8100M	mg/kg						NT
Total petroleum hydrocarbons			2,500	5,000	352			876

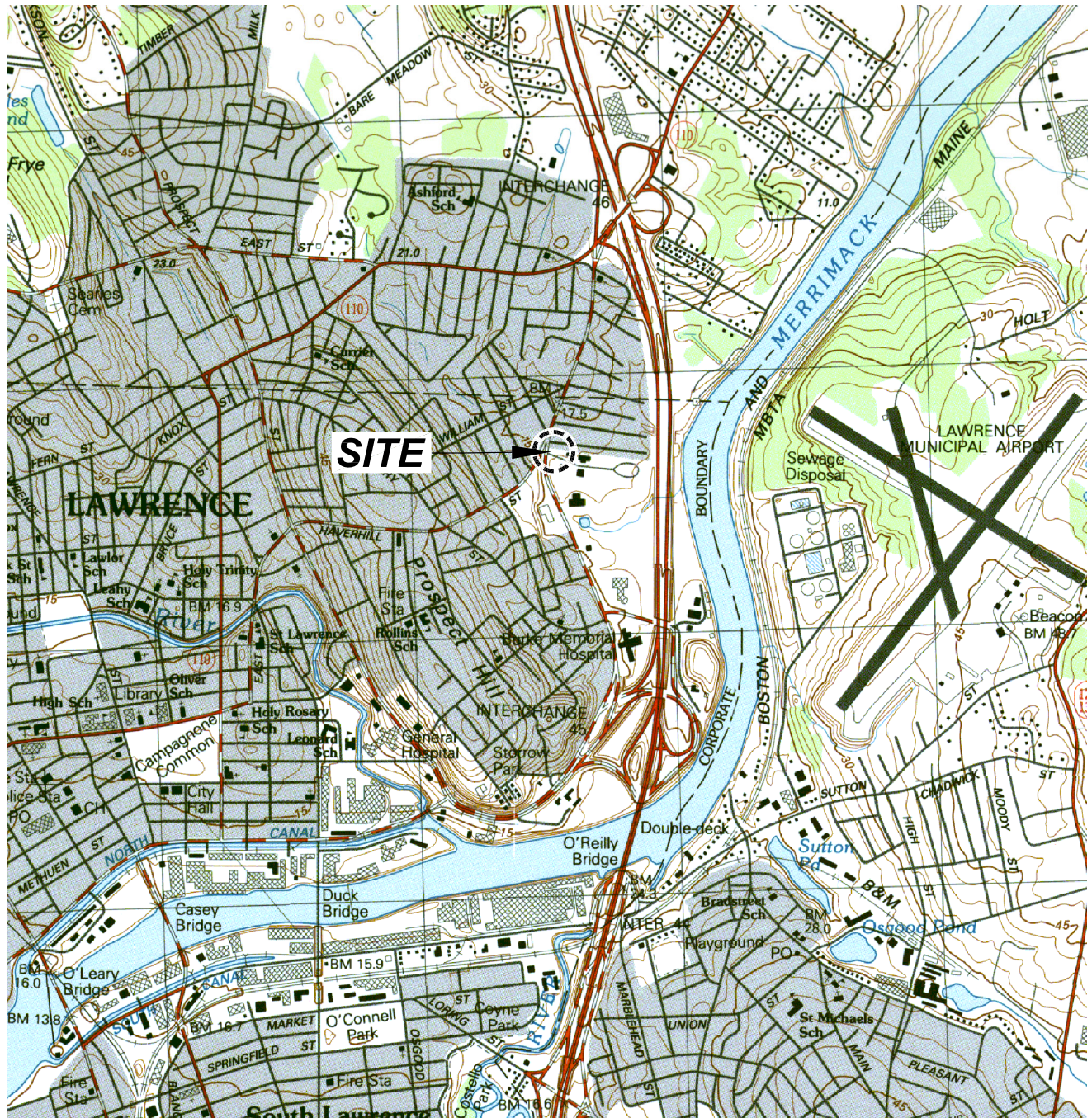
Table 4. Chemical Testing Results - Soil Disposal Characterization Samples
Former Tombarello Property - Lot 1, Northwest Portion
Lawrence, Massachusetts

					Sample ID:	1802441-Lot1-DISP01	1802441-Lot1-DISP02-Grab	1802441-Lot1-DISP02-Comp
					Sample Location:	Lot1-DISP01	Lot1-DISP02B	Lot1-DISP02A, B, C (Composite)
					Sampling Date:	03/12/2020	03/12/2020	03/12/2020
					Sample Depth (ft):	1 - 7	1 - 3	1 - 3
					Lab Sample ID:	20C0466-01	20C0466-02	20C0466-03
Analyte	Method	Units	Reuse Levels for In-State Unlined Landfill	Reuse Levels for In-State Lined Landfill				
Total Metals		mg/kg					NT	
Arsenic	7010/6010/6020		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	7010/6010/6020		NS	NS	< 0.44			< 0.45
TCLP Metals	1311	mg/L					NT	
Lead			5	5	0.281			1.26
Chemistry								
pH	9045	S.U.	NS	NS	7.75		NT	7.15
Flashpoint	1010	°F	NS	NS	> 200		NT	> 200
Reactive Cyanide	7.3.3.2	mg/kg	NS	NS	< 2.0		NT	< 2.0
Reactive Sulfide	7.3.4.1	mg/kg	NS	NS	< 2.0		NT	< 2.0
Solids, Percent	2540G	%	NS	NS	88		93	93

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
3. Unlined and lined landfill disposal criteria are from MassDEP Policy #COMM-97-001, dated August 15, 1997.
4. NT = The sample was not tested for this analyte.
5. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
6. NS = No disposal facility criteria has been established for this analyte.
- 7 mg/kg = milligrams per kilogram
8. S.U. = standard units.
9. deg F = degrees Fahrenheit.
10. Soil samples for VOC analysis were preserved in the field with methanol.

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.



Self-Implementing PCB Cleanup and Disposal Plan
 Former Tombarello Property - Lot 1, Northwest Portion
 Lawrence, Massachusetts

City of Lawrence
 Lawrence, Massachusetts

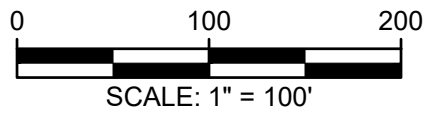
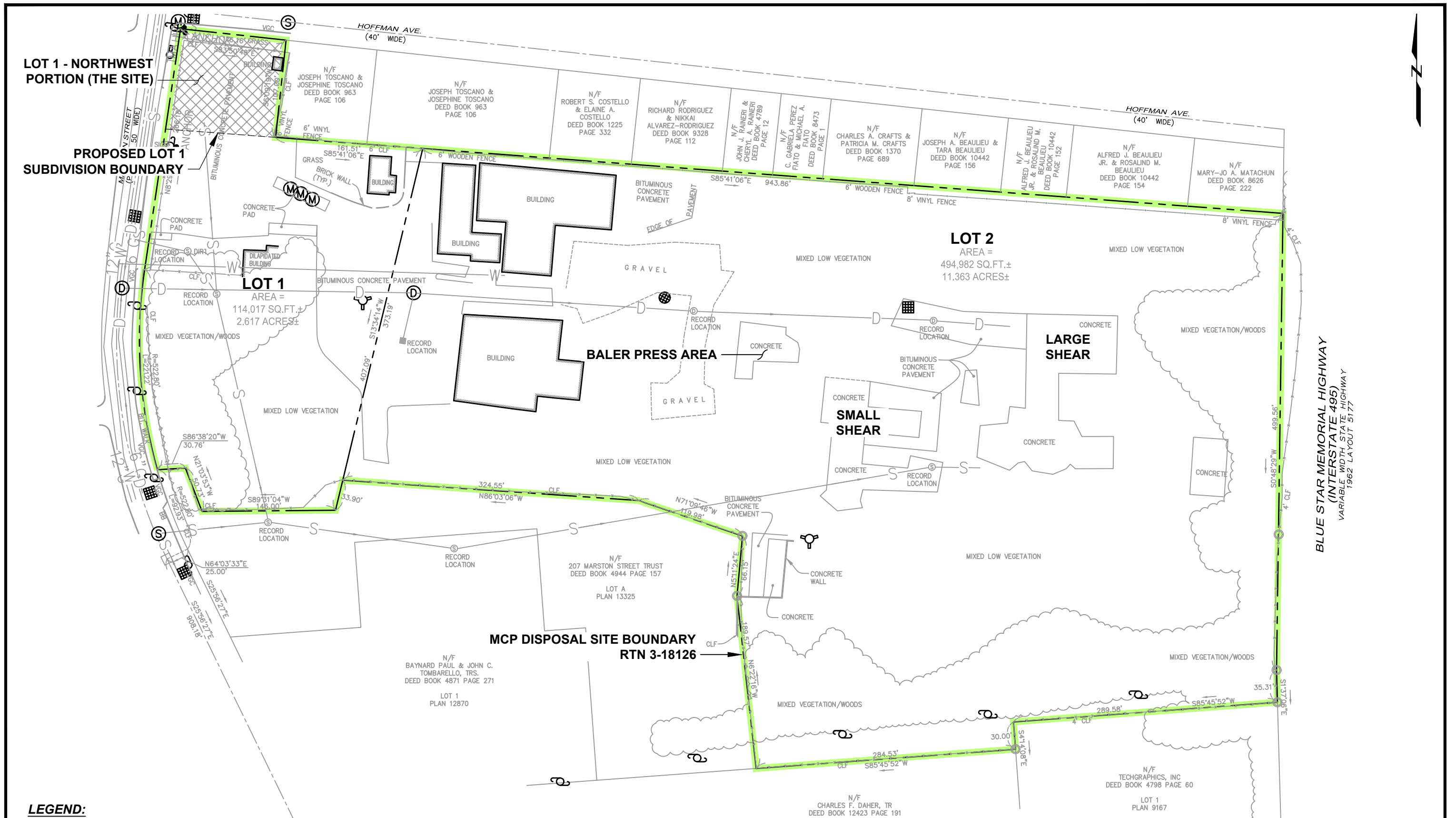


Project 1802441

SITE LOCATION MAP

April 2020

Fig. 1



Self-Implementing PCB Cleanup and Disposal Plan
 Former Tombarello Property - Lot 1, Northwest Portion
 Lawrence, Massachusetts

City of Lawrence
 Lawrence, Massachusetts



PROPERTY LAYOUT

April 2020

Fig. 2



SOURCE:

1. AERIAL IMAGE OBTAINED FROM GOOGLE EARTH PRO.

Self-Implementing PCB Cleanup and Disposal Plan
Former Tombarello Property – Lot 1, Northwest Portion
Lawrence, Massachusetts

City of Lawrence
Lawrence, Massachusetts



Project 1802441

INVESTIGATION LOCATIONS

April 2020

Fig. 3



SOURCE:
 1. AERIAL IMAGE OBTAINED FROM GOOGLE EARTH PRO.

LEGEND:

PCB Concentrations

- Non-Detect
- ≤ 1 mg/kg
- > 1 mg/kg - < 50 mg/kg
- ≥ 50 mg/kg - < 100 mg/kg
- ≥ 100 mg/kg
- Sample Location (no data at this depth interval)
- - - Proposed Lot 1 Subdivision Boundary
- Property Line

Self-Implementing PCB Cleanup and Disposal Plan
 Former Tombarello Property – Lot 1, Northwest Portion
 Lawrence, Massachusetts



PCB CONCENTRATIONS IN SOIL (0-1 FT)

City of Lawrence
 Lawrence, Massachusetts

Project 1802441

April 2020

Fig. 4



SOURCE:
 1. AERIAL IMAGE OBTAINED FROM GOOGLE EARTH PRO.

LEGEND:

PCB Concentrations

- Non-Detect
- ≤ 1 mg/kg
- > 1 mg/kg - < 50 mg/kg
- ≥ 50 mg/kg - < 100 mg/kg
- ≥ 100 mg/kg
- Sample Location (no data at this depth interval)
- - - Proposed Lot 1 Subdivision Boundary
- Property Line

Self-Implementing PCB Cleanup and Disposal Plan
 Former Tombarello Property – Lot 1, Northwest Portion
 Lawrence, Massachusetts



PCB CONCENTRATIONS IN SOIL (1-2 FT)

City of Lawrence
 Lawrence, Massachusetts

Project 1802441

April 2020 Fig. 5



SOURCE:

1. AERIAL IMAGE OBTAINED FROM GOOGLE EARTH PRO.

Self-Implementing PCB Cleanup and Disposal Plan
Former Tombarello Property – Lot 1, Northwest Portion
Lawrence, Massachusetts



PCB CONCENTRATIONS IN
SOIL (2-3 FT)

City of Lawrence
Lawrence, Massachusetts

Project 1802441

April 2020

Fig. 6



SOURCE:
 1. AERIAL IMAGE OBTAINED FROM GOOGLE EARTH PRO.

LEGEND:

PCB Concentrations

- Non-Detect
- ≤ 1 mg/kg
- > 1 mg/kg - < 50 mg/kg
- ≥ 50 mg/kg - < 100 mg/kg
- ≥ 100 mg/kg
- Sample Location (no data at this depth interval)
- - - Proposed Lot 1 Subdivision Boundary
- Property Line

Self-Implementing PCB Cleanup and Disposal Plan
 Former Tombarello Property – Lot 1, Northwest Portion
 Lawrence, Massachusetts



PCB CONCENTRATIONS IN SOIL (>3 FT)

City of Lawrence
 Lawrence, Massachusetts

Project 1802441

April 2020

Fig. 7



SOURCE:
 1. AERIAL IMAGE OBTAINED FROM GOOGLE EARTH PRO.

LEGEND:

PCB Concentrations

▲ ≤ 1 mg/kg

▲ > 1 mg/kg - < 50 mg/kg

--- Proposed Lot 1 Subdivision Boundary

— Property Line

Self-Implementing PCB Cleanup and Disposal Plan
 Former Tombarello Property – Lot 1, Northwest Portion
 Lawrence, Massachusetts



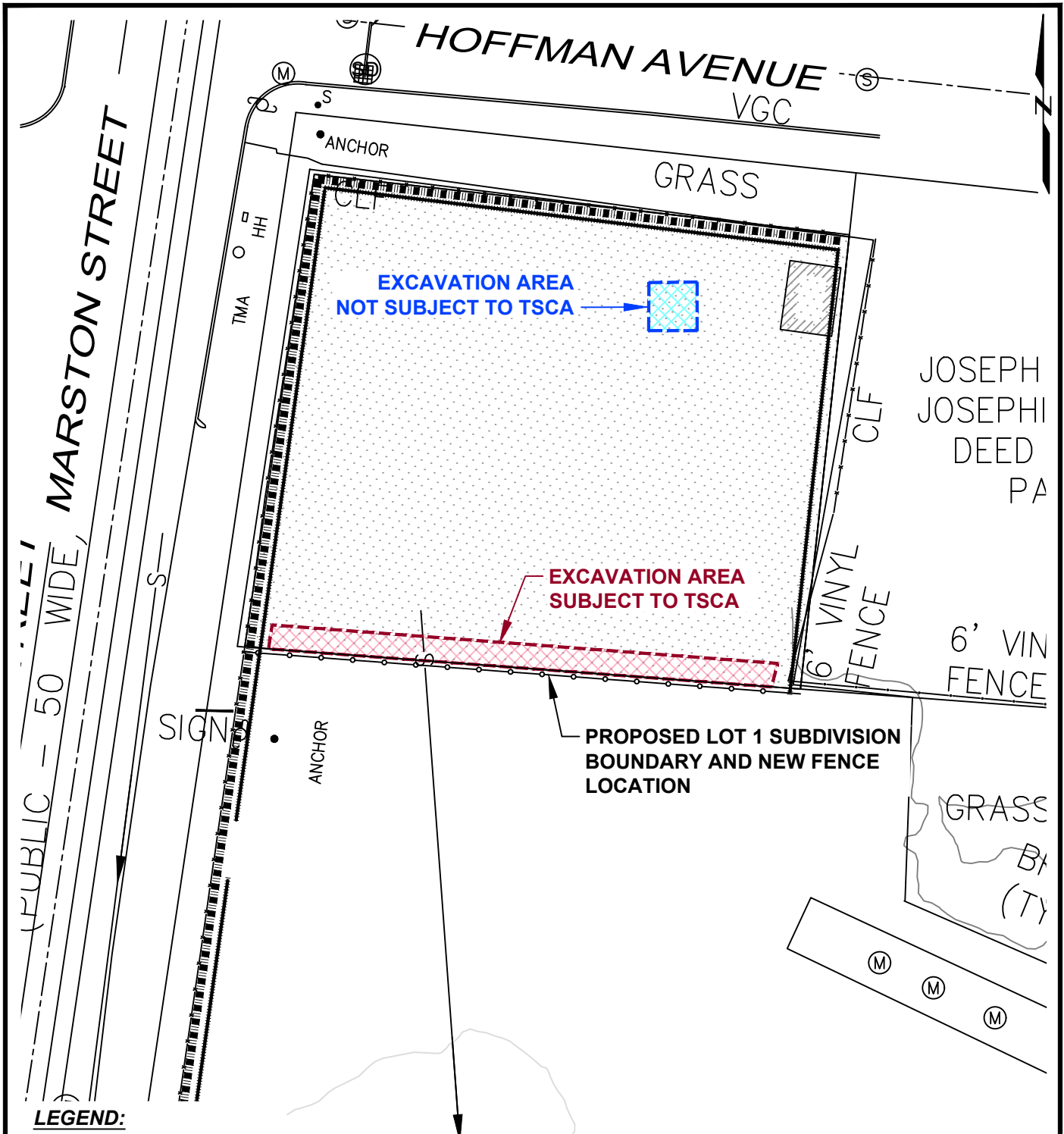
PCB CONCENTRATIONS IN ASPHALT

City of Lawrence
 Lawrence, Massachusetts





Project 1802441

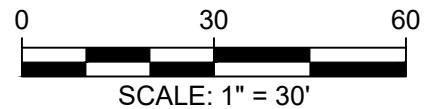
April 2020


Fig. 8



LEGEND:

-  EXCAVATION AREA SUBJECT TO TSCA
-  EXCAVATION AREA NOT SUBJECT TO TSCA
-  EXTENT OF ASPHALT SURFACE COVER REMOVAL, LOAM, AND SEED
-  PRIVACY SCREEN INSTALLED ON EXISTING FENCING



<p>Self-Implementing PCB Cleanup and Disposal Plan Former Tombarello Property - Lot 1, Northwest Portion Lawrence, Massachusetts</p>		<p>CLEANUP PLAN</p>
<p>City of Lawrence Lawrence, Massachusetts</p>	<p>Project 1802441</p>	<p>April 2020 Fig. 9</p>

Appendix A

Certification

CERTIFICATION IN ACCORDANCE WITH 40 CFR Part 761.61

All sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site that is the subject of this document are on file at the following location:

Location: Former Tombarello Property – Lot 1, Northwest Portion
Address: 207 Marston Street, Lawrence, Massachusetts 01841

Contact: Pedro Soto, Office of Planning and Development
Phone: (978) 620-3501

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (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 sections 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.



Pedro Soto
Office of Planning and Development
The City of Lawrence

Appendix B

Copies of MassDEP and City of Lawrence Board of Health Transmittals



Consulting
Engineers and
Scientists

April 14, 2020
Project 1802441

Massachusetts Department of Environmental Protection
MassDEP Northeast Region
205B Lowell Street
Wilmington, MA 01887

To Whom It May Concern:

**Re: Self-Implementing Polychlorinated Biphenyl Cleanup and Disposal Plan
Former Tombarello Property – Lot 1, Northwest Portion
207 Marston Street
Lawrence, Massachusetts
MassDEP RTN 3-18126**

GEI Consultants, Inc., on behalf of the City of Lawrence, is submitting the attached Self-Implementing Polychlorinated Biphenyl Cleanup and Disposal Plan (PCB Cleanup Plan) for a portion of the property located at 207 Marston Street in Lawrence, Massachusetts. A copy of the MassDEP Miscellaneous Document Transmittal Form (BWSC 126) used to transmit the PCB Cleanup Plan to MassDEP is attached.

The PCB Cleanup Plan documents the plans for the removal of the asphalt surface cover and the excavation and offsite disposal of PCB-contaminated soil. The PCB Cleanup Plan was prepared to meet the requirements of Section 761.61(a) of the Toxic Substances Control Act regulations (TSCA; 40 CFR Part 761) and was submitted concurrently to the United States Environmental Protection Agency (EPA) Region I for approval.

This submittal is being made in fulfillment of the requirements of Section 761.61(a)(3) of the TSCA regulations.

Please contact me at 781.721.4012 or igladstone@geiconsultants.com, if you have any questions.

Very truly yours,

GEI CONSULTANTS, INC.

A handwritten signature in blue ink, appearing to read "Heen S. Gladstone".

Heen S. Gladstone, LEED AP, P.E., LSP
Senior Vice President

SMT/LAL:jam

cc: Joanne Fagan, MassDEP (joanne.fagan@state.ma.us)
Enclosure

B:\Working\LAWRENCE, CITY OF\1802441 Former Tombarello\01_ADMIN\LOT 1 SIP\App B Notice Ltrs\App B1 Notice Ltr DEP.docx



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

5. Submit Public Involvement Petition documents. (check all that apply). (Section C is not required).

- a. Submit a Public Involvement Petition
- b. Submit a Public Involvement Petition Retraction
- c. Submit a Positive Public Involvement Petition Designation Letter
- d. Submit a Negative Public Involvement Designation Letter
- e. Submit a Draft Public Involvement Petition Plan
- f. Submit a Revised Public Involvement Petition Plan
- g. Submit a Final Public Involvement Petition Plan
- h. Submit a Notice of Public Comment Period

Date of Close of Comment Period : _____
(mm/dd/yyyy)

- i. Submit a copy of a Public Involvement Petition legal notice
- j. Submit a Notice of Public Meeting

Meeting Date: _____
(mm/dd/yyyy)

k. Submit other Public Involvement Petition related documents not specified above:

Describe: _____

6. Submit a RCRA Contained-In-Determination to document that soil and/or groundwater is no longer considered a hazardous waste pursuant to state (310 CMR 30.00) and federal (Title 40, Chapter I, Part 261 of the Code of Federal Regulations) hazardous waste regulations.

7. Submit notification and documentation of Reclamation Soil Reuse pursuant to 310 CMR 40.0031(2).

C. LSP SIGNATURE:

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

1. LSP #: _____

2. First Name: _____ 3. Last Name: _____

4. Telephone: _____ 5. Ext.: _____ 6. Email: _____

7. Signature: _____

8. Date: _____
(mm/dd/yyyy)



Miscellaneous Document Transmittal Form

Release Tracking Number

3 - 18126

D. PERSON MAKING A SUBMITTAL:

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

2. Name of Organization: CITY OF LAWRENCE

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

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

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

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

13. Check here if the person is a Public Involvement Petitioner

E. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL:

Check here to change relationship

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

e. Other RP or PRP Specify: _____

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

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

4. Any Other Person Undertaking Response Actions Specify Relationship: MUNICIPAL PROPERTY TAKEN FOR TAX FORECLOSURE

F. CERTIFICATION OF PERSON MAKING SUBMITTAL:

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

2. By: _____ 3. Title: _____
Signature

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

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

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. Email: _____



Check here if any non-updatable information provided on this form is incorrect, e. g. property address. Send corrections to BWSC.eDEP@state.ma.us

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY):



Consulting
Engineers and
Scientists

April 14, 2020
Project 1802441

Dr. Joel Gorn M.D.
Chairman, Board of Health
200 Common Street
Lawrence, MA 01840

Dear Dr. Gorn:

**Re: Self-Implementing Polychlorinated Biphenyl Cleanup and Disposal Plan
Former Tombarello Property – Lot 1, Northwest Portion
207 Marston Street
Lawrence, Massachusetts
MassDEP RTN 3-18126**

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The PCB Cleanup Plan was prepared to meet the requirements of Section 761.61(a) of the Toxic Substances Control Act regulations (TSCA; 40 CFR Part 761) and was submitted concurrently to the United States Environmental Protection Agency (EPA) Region I for approval.

This submittal is being made in fulfillment of the requirements of Section 761.61(a)(3) of the TSCA regulations.

Please contact me at 781.721.4012 or igladstone@geiconsultants.com, if you have any questions.

Very truly yours,

GEI CONSULTANTS, INC.

A blue ink handwritten signature of Heen S. Gladstone.

Heen S. Gladstone, LEED AP, P.E., LSP
Senior Vice President

SMT/LAL:jam

B:\Working\LAWRENCE, CITY OF\1802441 Former Tombarello\01_ADMIN\LOT 1 SIP\App B Notice Ltrs\App B2 Notice Ltr BOH.docx

Appendix C

Boring Logs



BORING LOG

Project: Former Tombarello Facility TBA
 Location: 207 Marston Street, Lawrence, MA
 Nobis Project No.: 80108.04

Boring No.: NPA-01
 Boring Location: See Site Plan
 Checked by: _____
 Date Start: June 10, 2016
 Date Finish: June 10, 2016

Contractor: Technical Drilling Services
 Driller: T. Newton
 Nobis Rep.: E. Johnson

Rig Type / Model: Geoprobe 6620DT
 Hammer Type: N/A
 Hammer Hoist: N/A

Ground Surface Elev.: _____
 Datum: _____

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 88/16 10:51 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\LAWRENCE\BORING LOGS\80108.04 BORING LOGS.GPJ

Type	Drilling Method	Sampler	Groundwater Observations					
			Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
Geoprobe	Geoprobe	Macro-Core Liners						
Size ID (in.)		1.75 x 60						
Advancement	Direct Push	Push						

Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	Graphic	LITHOLOGY Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.						
1	S-1	20	0-2		1.5		ASPHALT / 0.5	S-1A (6"): Asphalt.		
							FILL	S-1B (14"): Brown to black, fine to coarse SAND, some Gravel, trace Silt, trace coal, trace brick, trace glass. dry.		
3	S-2	12	2-3		0.1		/ 3.0	S-2: Dark brown, fine to medium SAND, little Gravel, trace coal fragments. moist.		
								Boring terminated at 3 feet.		
4										
5										
6										
7										
8										
9										
10										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES: _____



BORING LOG

Project: Former Tombarello Facility TBA
 Location: 207 Marston Street, Lawrence, MA
 Nobis Project No.: 80108.04

Boring No.: NPA-02 / MW-15
 Boring Location: See Site Plan
 Checked by: _____
 Date Start: June 10, 2016
 Date Finish: June 10, 2016

Contractor: Technical Drilling Services
 Driller: T. Newton
 Nobis Rep.: E. Johnson

Rig Type / Model: Geoprobe 6620DT
 Hammer Type: N/A
 Hammer Hoist: N/A

Ground Surface Elev.: _____
 Datum: _____

Type	Drilling Method	Sampler	Groundwater Observations					
			Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
Geoprobe	Geoprobe	Macro-Core Liners						
Size ID (in.)		1.75 x 60						
Advancement	Direct Push	Push						

Depth (ft.)	SAMPLE INFORMATION				Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
	Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.		Graphic	Stratum Elev. / Depth (ft.)			
1	S-1	18	0-2			ASPHALT / 0.5	S-1A (6"): Asphalt.			
							S-1B (12"): Dark brown to black, fine to coarse SAND, little Gravel, little coal, trace Silt, trace slag. dry.			
2									S-2: Brown to black, medium to coarse SAND, little Gravel, trace ash, trace coal, trace brick fragments. moist.	
	S-2	12	2-3							
3									S-3A (6"): Beige to brown, fine to coarse SAND, trace concrete. moist.	
	S-3	31	3-8						S-3B (25"): Brown to black, fine SAND, little Silt, little Gravel, trace slag, trace coal. wet. Water encountered at approximately 6.5 feet.	
4										
5										
6										
7										
8						/ 8.0				
	S-4	48	8-13				S-4A (24"): Black to tan, fine to coarse SAND, trace Gravel. wet.			
9										
10										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES: _____

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 88/16 10:51 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\LAURENCE\BORING LOGS\80108.04 BORING LOGS.GPJ



Credere Associates, LLC
 776 Main Street
 Westbrook, Maine 04092
 Phone: 207-828-1272
 Fax: 207-887-1051

Boring Log

SB-1
 PAGE 1 OF 1

CLIENT MVPC PROJECT NAME Tombarello
 PROJECT # 17001426 PROJECT LOCATION Lawrence, MA
 DATE STARTED 9/5/19 LOGGED BY Samantha Foote
 CONTRACTOR Geosearch, Inc./Brian Houle DEPTH TO WATER 6.5
 DRILLING METHOD Direct Push SAMPLER TYPE, DIAMETER NA, 1.5"
 DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig HAMMER WEIGHT _____
 NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 6.5 feet bgs.

CREDERE ENV. 2015 - GINT STD. US LAB. GDT. - 3/23/20 16:01 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/38		0.35			0-7" ASPHALT.	
				SB-1 (0-0.5)		7-11" Brown, fine to coarse SAND. Dry.	
			0.09			11-26" Dark brown/gray, fine to coarse SAND, some Silt. Moist.	
				SB-1 (1-2)			
			0.09			26-38" Black/orange/brown, fine to coarse SAND, some Fibrous Material, some Glass (fill). Moist. Coal and Coal Ash observed in sample.	
2.5				SB-1 (2-3)			
			0.09				
			0.06				
				SB-1 (3-5)			
5.0	60/32		0.07			0-24" SAA. Wet at 18".	
				SB-1 (5-7)-1			
			0.06				
				SB-1 (5-7)-2			
			0.06			24-28" Dark gray, fine to coarse SAND, trace fine Gravel. Wet.	
7.5						28-32" Dark gray, very fine to medium SAND. Wet.	
			0.06				
			0.08				
10.0						End of boring at 10 feet bgs (no refusal).	
						Note: The 0-0.5 foot sample was collected immediately beneath the asphalt surface. The reported depth of any subsequent samples was measured from the surface.	
12.5							



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 Westbrook, Maine 04092
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 Fax: 207-887-1051

Boring Log

SB-2
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 9/4/19 **LOGGED BY** Samantha Foote
CONTRACTOR Geosearch, Inc./Brian Houle **DEPTH TO WATER** 7.5
DRILLING METHOD Direct Push **SAMPLER TYPE, DIAMETER** NA, 1.5"
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **HAMMER WEIGHT** _____
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 7.5 feet bgs.

CREDERE ENV. 2015 - GINT STD US LAB.GDT - 3/23/20 16:01 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/44		0.09	SB-2 (0-0.5)		0-10" ASPHALT.	
			0.10	SB-2 (1-2)		10-12" Light brown, very fine to fine SAND, trace fine Gravel. Moist. 12-32" Dark brown, fine to coarse SAND, little Silt, trace Glass, trace Brick, layer of brick from 21-22" (fill). Dry.	
2.5			0.04	SB-2 (2-3)		32-39" Brown, very fine to fine SAND. Moist.	
			0.00	SB-2 (3-5)		39-44" Dark brown, fine to coarse SAND, little Silt, trace Glass, trace Brick (fill). Moist.	
5.0	60/40		0.07	SB-2 (5-7)-1		0-30" SAA.	
			0.08	SB-2 (5-7)-2			
			0.31				
7.5			0.03			30-40" Light brown, very fine to fine SAND, little Silt. Wet.	
			0.07				
10.0						End of boring at 10 feet bgs (no refusal)	
						Note: The 0-0.5 foot sample was collected immediately beneath the asphalt surface. The reported depth of any subsequent samples was measured from the surface.	
12.5							



Credere Associates, LLC
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 Westbrook, Maine 04092
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Boring Log

SB-3
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 9/4/19 **LOGGED BY** Samantha Foote
CONTRACTOR Geosearch, Inc./Brian Houle **DEPTH TO WATER** 7
DRILLING METHOD Direct Push **SAMPLER TYPE, DIAMETER** NA, 1.5"
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **HAMMER WEIGHT** _____
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 7 feet bgs.

CREDERE ENV. 2015 - GINT STD US LAB.GDT - 3/23/20 16:01 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/48		0.21	SB-3 (0-0.5)		0-10" ASPHALT.	
			0.00	SB-3 (1-2)		10-44" Brown, very fine to medium SAND, trace Silt, brick observed at 20". Moist.	
2.5			0.03	SB-3 (2-3)			
			0.02				
			0.01	SB-3 (3-5)		44-48" Dark brown/black, fine to coarse SAND, little Silt, trace Glass, trace Brick (fill). Moist.	
5.0	60/53		0.07	SB-3 (5-7)-1		0-14" SAA.	
			0.25	SB-3 (5-7)-2		14-53" Brown, very fine to fine SAND, some Silt. Moist (wet at 7' bgs).	
			0.44				
7.5			0.91				
			0.12				
10.0						End of boring at 10 feet bgs (no refusal)	
						Note: The 0-0.5 foot sample was collected immediately beneath the asphalt surface. The reported depth of any subsequent samples was measured from the surface.	
12.5							



Credere Associates, LLC
 776 Main Street
 Westbrook, Maine 04092
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 Fax: 207-887-1051

Boring Log

SB-4
 PAGE 1 OF 1

CLIENT MVPC PROJECT NAME Tombarello
 PROJECT # 17001426 PROJECT LOCATION Lawrence, MA
 DATE STARTED 9/4/19 LOGGED BY Samantha Foote
 CONTRACTOR Geosearch, Inc./Brian Houle DEPTH TO WATER 7.08
 DRILLING METHOD Direct Push SAMPLER TYPE, DIAMETER NA, 1.5"
 DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig HAMMER WEIGHT _____
 NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 7.08 feet bgs.

CREDERE ENV. 2015 - GINT STD US LAB.GDT - 3/23/20 16:01 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/36		0.00	SB-4 (0-0.5)		0-10" ASPHALT.	
			0.00			10-12" Brown/dark brown, very fine to medium SAND, little Silt. Moist.	
				SB-4 (1-2)		12-20" Gray, crushed fine to coarse GRAVEL/CONCRETE. Dry.	
			0.03			20-28" Dark brown/black, fine to coarse SAND, trace Silt. Moist.	
2.5				SB-4 (2-3)		28-32" Blue/black fine GRAVEL, some crushed fine to coarse Gravel. Dry.	
			0.00			32-36" Light gray/tan, fine to coarse SAND, little Silt, fill materials throughout including glass/brick. Moist.	
			0.00	SB-4 (3-5)			
5.0	60/45		0.00			0-25" Same as above.	
			0.00	SB-4 (5-7)-1			
			0.00	SB-4 (5-7)-2			
			0.00			25-30" Brown with orange staining, very fine to medium SAND, trace Silt. Wet at 7.08 feet bgs.	
7.5						30-33" Light brown, fine to coarse SAND. Wet.	
			0.00			33-45" Dark gray very fine to fine SAND, some Silt. Wet.	
			0.00				
10.0						End of boring at 10 feet bgs (no refusal)	
						Note: The 0-0.5 foot sample was collected immediately beneath the asphalt surface. The reported depth of any subsequent samples was measured from the surface.	
12.5							



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 776 Main Street
 Westbrook, Maine 04092
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 Fax: 207-887-1051

Boring Log

SB-5
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 12/23/19 **LOGGED BY** Christopher Beahm **DEPTH TO WATER** 6.58 **DIAMETER** 2
CONTRACTOR Technical Drilling Services/Darwin Neuton **WELL MATERIALS** PVC, 0.010" slotted screen, solid riser
DRILLING METHOD Direct Push **ANNULUS MATERIALS** #2 Silica Sand Bentonite Grout
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** NA
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 6.58 feet bgs.

CREDERE ENV. 2015 - GINT STD US LAB.GDT - 2/4/20, 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/48		<1.0			0-11" ASPHALT.	Well Finish: Road Box (Flush) Concrete
						11-30" Dark Brown/gray, fine to coarse SAND, some Silt, trace fine Gravel. Moist.	Backfill (#2 Sand)
2.5						30-37" BRICK (fill). Dry.	Bentonite Seal
						37-48" Dark brown very fine to fine SAND, some Silt, trace fine Gravel (fill). Moist.	
5.0	36/27		<1.0			0-19" SAA.	Backfill (#2 Sand)
						19-27" Light brown, very fine to fine SAND, some Silt, little fine Gravel. Wet.	
7.5							Screen (3-13' bgs) 2" Schedule 40 PVC
10.0						0-36" SAA.	
12.5							
						End of boring at 13 feet bgs (no refusal)	



Credere Associates, LLC
 776 Main Street
 Westbrook, Maine 04092
 Phone: 207-828-1272
 Fax: 207-887-1051

Boring Log

SB-6
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 12/23/19 **LOGGED BY** Christopher Beahm **DEPTH TO WATER** 5.58 **DIAMETER** NA
CONTRACTOR Technical Drilling Services/Darwin Neuton **WELL MATERIALS** NA
DRILLING METHOD Direct Push **ANNULUS MATERIALS** NA
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** NA
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 5.58 feet bgs.

CREDERE ENV 2015 - GINT STD US LAB.GDT - 2/4/20 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/37		<1.0			0-4" ASPHALT.	
2.5						4-19" Dark brown, very fine to fine SAND, some Silt, trace fine Gravel (fill). Moist. Coal observed in sample. 19-29" Black, very fine to fine SAND, some Silt. Dry. Coal observed in sample. 29-37" Light brown, fine SAND and SILT.	
5.0	48/40		<1.0	SB-6		0-9" Dark brown, very fine to fine SAND, some Silt, trace fine Gravel, trace Brick (fill). Moist. Coal Ash observed in sample. 9-30" Light brown, very fine to fine SAND, some Silt, trace fine Gravel (fill). Wet. Coal and Coal Ash observed in sample.	
7.5						30-40" Dark brown, very fine to fine SAND, some Silt. Wet.	
10.0						End of Boring at 9 feet bgs (no refusal)	
12.5							



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 776 Main Street
 Westbrook, Maine 04092
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 Fax: 207-887-1051

Boring Log

SB-7
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 12/23/19 **LOGGED BY** Christopher Beahm **DEPTH TO WATER** 3.17 **DIAMETER** NA
CONTRACTOR Technical Drilling Services/Darwin Neuton **WELL MATERIALS** NA
DRILLING METHOD Direct Push **ANNULUS MATERIALS** NA
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** NA
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 3.17 feet bgs.

CREDERE ENV. 2015 - GINT STD US LAB.GDT - 2/4/20, 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/46		<1.0			0-8" ASPHALT.	
2.5						8-24" Dark brown, very fine to fine SAND, some fine Gravel, trace Silt (fill). Moist. Coal and Clinker observed in sample. 24-28" Brick. Dry. 28-38" Dark brown, very fine to fine SAND, some fine Gravel, trace Silt (fill). Moist. Coal and Coal Ash observed in sample. 38-46" Dark brown, very fine to fine SAND (fill). Wet. Coal and Coal Ash observed in sample.	
5.0	24/14		<1.0	SB-7		0-6" SAA. 6-14" Light Brown, fine SAND and SILT. Wet.	
7.5						End of boring at 7 feet bgs (no refusal)	
10.0							
12.5							



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Boring Log

SB-8
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CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 12/23/19 **LOGGED BY** Christopher Beahm **DEPTH TO WATER** 5.75 **DIAMETER** NA
CONTRACTOR Technical Drilling Services/Darwin Neuton **WELL MATERIALS** NA
DRILLING METHOD Direct Push **ANNULUS MATERIALS** NA
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** NA
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 5.75 feet bgs.

CREDERE ENV. 2015 - GINT STD. US LAB. GDT - 2/4/20, 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/37		<1.0			0-5" TOPSOIL. 5-11" ASPHALT.	
2.5						11-18" Tan, very fine to fine SAND, little Silt. Moist. 18-37" Dark brown, very fine to fine SAND, some Silt, trace fine Gravel, trace Brick (fill). Moist. Coal observed in sample.	
5.0	48/48		<1.0	SB-8		0-9" SAA. 9-29" Light brown, very fine to fine SAND, some Silt (fill). Wet. Coal observed in Samples.	
7.5						29-43" Tan, fine to coarse, SAND, some Silt. Wet.	
10.0						End of boring at 9 feet bgs (no refusal)	
12.5							



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Boring Log

SB-9
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 12/23/19 **LOGGED BY** Christopher Beahm **DEPTH TO WATER** 5.75 **DIAMETER** NA
CONTRACTOR Technical Drilling Services/Darwin Neuton **WELL MATERIALS** NA
DRILLING METHOD Direct Push **ANNULUS MATERIALS** NA
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** NA
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 5.75 feet bgs.

CREDERE ENV 2015 - GINT STD US LAB.GDT - 2/4/20 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/41		<1.0			0-4" ASPHALT.	
						4-10" Gray, fine GRAVEL, some tan fine Sand, trace Silt. Dry.	
						10-33" Dark brown very fine to fine SAND, little Silt, trace Gravel. Moist.	
2.5						33-35" SAA. 35-41" Dark brown, very fine to fine SAND, little Silt, trace fine Gravel (fill). Moist. Coal and Ash observed in sample.	
5.0	24/24		<.10	SB-9		0-9" Dark brown/gray, very fine to fine SAND, some Silt, little fine Gravel (fill). Wet. Coal and Ash observed in sample.	
						9-24" Light brown, very fine to fine SAND, some Silt. Wet.	
7.5						End of boring at 7 feet bgs (no refusal)	
10.0							
12.5							



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Boring Log

SB-10
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 12/23/19 **LOGGED BY** Christopher Beahm **DEPTH TO WATER** 6.33 **DIAMETER** NA
CONTRACTOR Technical Drilling Services/Darwin Neuton **WELL MATERIALS** NA
DRILLING METHOD Direct Push **ANNULUS MATERIALS** NA
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** NA
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 6.33 feet bgs.

CREDERE ENV. 2015 - GINT STD US LAB.GDT - 2/4/20, 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/42		<1.0			0-7" ASPHALT.	
2.5						7-17" Dark brown, very fine to fine SAND. Moist. 17-37" Tan, very fine to fine SAND, some Silt, trace fine gravel (fill). Moist. Coal, Ash, and Clinker observed in sample. 37-42" BRICK.	
5.0	48/43		<1.0	SB-10		0-16" Dark brown, very fine to fine SAND, some Silt, little fine Gravel. Moist. 16-43" Dark brown/tan fine SAND (fill). Wet. Coal and Ash observed in sample.	
7.5						End of boring at 9 feet bgs (no refusal)	
10.0							
12.5							



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Boring Log

SB-11
 PAGE 1 OF 1

CLIENT MVPC PROJECT NAME Tombarello
 PROJECT # 17001426 PROJECT LOCATION Lawrence, MA
 DATE STARTED 12/23/19 LOGGED BY Christopher Beahm DEPTH TO WATER 6.17 DIAMETER NA
 CONTRACTOR Technical Drilling Services/Darwin Neuton WELL MATERIALS NA
 DRILLING METHOD Direct Push ANNULUS MATERIALS NA
 DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig TOC ELEVATION _____ GROUND ELEVATION NA
 NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 6.17 feet bgs.

CREDERE ENV. 2015 - GINT STD US LAB.GDT - 2/4/20, 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/43		<1.0			0-6" ASPHALT.	
				SB-11 (1-1.5)		6-20" Dark brown, very fine to fine SAND, little fine Gravel (fill). Moist. Coal and Ash observed in sample.	
				SB-11 (2-3)		20-23" QUARTZ.	
2.5				SB-11 (3-4)		23-33" Dark brown, very fine to fine SAND, some Silt, little fine Gravel. Moist.	
				SB-11(4-5)		33-43" Tan, very fine to medium SAND, little Silt. Moist.	
5.0	36/31		<1.0	SB-11(5-7)		0-10" Dark brown, very fine to fine SAND, some fine Gravel, little Silt. Moist. 10-14" Dark brown, very fine to fine SAND, some fine Gravel. Moist. 14-24" Light brown, fine SAND, little Silt, trace fine Gravel. Wet. 24-31" Light brown, coarse SAND, little Silt. Wet.	
7.5						End of boring at 8 feet bgs (no refusal)	
10.0							
12.5							



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Boring Log

SB-12
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 12/23/19 **LOGGED BY** Christopher Beahm **DEPTH TO WATER** 5.5 **DIAMETER** NA
CONTRACTOR Technical Drilling Services/Darwin Neuton **WELL MATERIALS** NA
DRILLING METHOD Direct Push **ANNULUS MATERIALS** NA
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** NA
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 5.5 feet bgs.

CREDERE ENV. 2015 - GINT STD US LAB.GDT - 2/4/20, 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/40		<1.0			0-3" TOPSOIL. 3-7" ASPHALT.	Well Finish:
2.5				SB-12 (1-1.5)		7-17" Dark brown, very fine to fine SAND, some Silt, little fine Gravel. Moist. 17-19" Tan, very fine SAND and SILT. Moist. 19-35" Dark brown, very fine to fine SAND and SILT (fill). Moist. Coal and Ash observed in sample.	No well installed
				SB-12 (2-3)		35-40" Light brown, very fine to fine SAND, some Silt (fill). Moist. Coal and Ash observed in sample.	
				SB-12 (3-5)			
				SB-12 (4-5)			
5.0	24/22		<1.0			0-6" Dark brown, very fine to fine SAND and SILT (fill). Moist. Coal and Ash observed in sample. 6-22" Dark brown, fine to coarse SAND and SILT, some fine gravel. Wet.	
7.5				SB-12 (5-7)		End of boring 7 feet bgs (no refusal)	
10.0							
12.5							



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Boring Log

SB-13
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 12/23/19 **LOGGED BY** Christopher Beahm **DEPTH TO WATER** 5.25 **DIAMETER** NA
CONTRACTOR Technical Drilling Services/Darwin Neuton **WELL MATERIALS** NA
DRILLING METHOD Direct Push **ANNULUS MATERIALS** NA
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** NA
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 5.25 feet bgs.

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Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/36		<1.0			0-5" ASPHALT.	Well Finish:
				SB-13 (1-1.5)		5-14" Dark brown, fine to coarse SAND, some Silt, trace fine Gavel. Dry.	No Well Installed
						14-16" Tan, very fine to medium SAND, little Silt. Moist.	
						16-19" Dark brown, fine to medium SAND, some Silt. Moist.	
						19-21" BRICK.	
						21-36" Dark brown, coarse to medium SAND, little Silt. Moist.	
2.5				SB-13 (2-3)			
				SB-13 (3-4)			
				SB-13 (4-5)			
5.0	24/11		<1.0			0-3" SAA (except wet). 3-11" Dark brown, very fine to fine SAND, some Silt, little fine Gravel. Wet.	
				SB-13 (5-7)			
7.5						End of boring at 7 feet bgs (no refusal)	
10.0							
12.5							



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Boring Log

SB-14
 PAGE 1 OF 1

CLIENT MVPC **PROJECT NAME** Tombarello
PROJECT # 17001426 **PROJECT LOCATION** Lawrence, MA
DATE STARTED 12/23/19 **LOGGED BY** Christopher Beahm **DEPTH TO WATER** 5 **DIAMETER** NA
CONTRACTOR Technical Drilling Services/Darwin Neuton **WELL MATERIALS** NA
DRILLING METHOD Direct Push **ANNULUS MATERIALS** NA
DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** NA
NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 5 feet bgs.

CREDERE ENV. 2015 - GINT STD. US LAB. GDT - 2/4/20, 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/48		<1.0			0-6" ASPHALT.	Well Finish: No well installed
				SB-14 (1-1.5)		6-24" Dark brown/brown, fine to coarse SAND, some fine Gravel (fill). Dry.	
				SB-14 (2-3)		24-30" Tan fine SAND, some Silt (fill). Dry.	
2.5				SB-14 (3-4)		30-48" Dark brown, fine SAND, trace Silt, fine Gravel. Moist.	
				SB-14 (4-5)			
5.0	24/19		<1.0			0-19" Dark brown fine SAND, some Silt, trace fine Gravel (fill). Wet. Coal and Ash observed in sample.	
				SB-14 (5-7)			
7.5						End of boring at 7 feet bgs (no refusal)	
10.0							
12.5							



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Boring Log

SB-15
 PAGE 1 OF 1

CLIENT MVPC PROJECT NAME Tombarello
 PROJECT # 17001426 PROJECT LOCATION Lawrence, MA
 DATE STARTED 12/23/19 LOGGED BY Christopher Beahm DEPTH TO WATER 5.75 DIAMETER NA
 CONTRACTOR Technical Drilling Services/Darwin Neuton WELL MATERIALS NA
 DRILLING METHOD Direct Push ANNULUS MATERIALS NA
 DRILLING EQUIPMENT Geoprobe 6610 DT Track Rig TOC ELEVATION _____ GROUND ELEVATION NA
 NOTES bgs= Below ground surface; SAA= Same as above; groundwater encountered at 5.75 feet bgs.

CREDERE ENV. 2015 - GINT STD. US LAB. GDT - 2/4/20, 16:33 - P:\17001426 MVPC ASSESSMENT\WORK\TOMBARELLO SITE-LAWRENCE\FIELD\TOMBARELLO_LOGS.GPJ

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/41		<1.0			0-2" ASPHALT. 2-23" Dark brown very fine to fine SAND, little fine Gravel (fill). Moist. Coal and Ash observed in sample.	Well Finish:
2.5				SB-15 (1-1.5)		23-25" BRICK. 25-35" Tan, fine to coarse SAND, little Silt. Moist.	No well installed
				SB-15 (2-3)			
				SB-15 (3-4)		35-41" Dark brown, very fine to fine SAND, some Silt. Moist.	
				SB-15 (4-5)			
5.0	24/15		<1.0			0-9" Dark brown, very fine to fine SAND, some Silt. Moist. 9-15" Light brown, fine SAND, some Silt. Wet.	
				SB-15 (5-7)			
7.5						End of boring at 7 feet bgs (no refusal)	
10.0							
12.5							

BORING INFORMATION	BORING
LOCATION: NE corner of NW portion of Lot 1	Lot 1 Disp-01
GROUND SURFACE EL. (ft): NA	
DATE START/END: 3/12/2020 - 3/12/2020	
VERTICAL DATUM: NA	
DRILLING COMPANY: Northern Drill Service, Inc.	
TOTAL DEPTH (ft): 7.0	PAGE 1 of 1
DRILLER NAME: C. Devillers	
RIG TYPE: Geoprobe 6620DT	
LOGGED BY: B.Lee	

DRILLING INFORMATION			
HAMMER TYPE: Automatic	CASING I.D./O.D.: 2.125 inch / 2.25 inch	CORE BARREL TYPE: Macrocore	
AUGER I.D./O.D.: NA / NA	DRILL ROD O.D.: NM	CORE BARREL I.D./O.D. NA / NA	
DRILLING METHOD: Geoprobe			

ABBREVIATIONS:

Pen. = Penetration Length	S = Split Spoon Sample	Qp = Pocket Penetrometer Strength	NA, NM = Not Applicable, Not Measured
Rec. = Recovery Length	C = Core Sample	Sv = Pocket Torvane Shear Strength	Blows per 6 in.: 140-lb hammer falling
RQD = Rock Quality Designation	U = Undisturbed Sample	LL = Liquid Limit	30 inches to drive a 2-inch-O.D.
= Length of Sound Cores > 4 in / Pen., %	SC = Sonic Core	PI = Plasticity Index	split spoon sampler.
WOR = Weight of Rods	DP = Direct Push Sample	PID = Photoionization Detector	
WOH = Weight of Hammer	HSA = Hollow-Stem Auger	I.D./O.D. = Inside Diameter/Outside Diameter	

Elev. (ft)	Depth (ft)	Sample Information				Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		Sample No.	Depth (ft)	Pen./Rec. (in)	Blows per 6 in. or RQD			
		S1	0 to 5	60/23	NA	0.0 ppm	FILL	S1: (0-3"): ASPHALT
	5	S2	5 to 7	24/7	NA	0.1 ppm		S1: (3-5"): WIDELY GRADED SAND WITH GRAVEL (SW); ~55% fine to coarse sand, ~40% subrounded gravel (0-0.25"), ~5% non-plastic fines, dark gray, loose.
							SAND	S1: (5-23"): WIDELY GRADED SAND WITH GRAVEL (SW); ~65% fine to coarse sand, ~30% subrounded gravel (0-1.5"), ~5% non-plastic fines, loose, black to brown. Contains brick and slag fragments
								S2: (0-7"): SILTY SAND (SM); ~70% fine to medium sand, ~30% slightly plastic fines, medium dense, light brown.
	10							Bottom of boring at depth 7 ft.
	15							
	20							

NOTES: ppm = parts per million	PROJECT NAME: Former Tombarello Site CITY/STATE: Lawrence, Massachusetts GEI PROJECT NUMBER: 1802441
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GEI WOBURN STD 1-LOCATION-LAYER NAME BORING LOGS 2020 - COPY.GPJ 3/31/20

BORING INFORMATION		BORING Lot 1 Disp-02A PAGE 1 of 1
LOCATION: Near south boundary of NW portion of Lot 1		
GROUND SURFACE EL. (ft): <u>NA</u>	DATE START/END: <u>3/12/2020 - 3/12/2020</u>	
VERTICAL DATUM: <u>NA</u>	DRILLING COMPANY: <u>Northern Drill Service, Inc.</u>	
TOTAL DEPTH (ft): <u>3.0</u>	DRILLER NAME: <u>C. Devillers</u>	
LOGGED BY: <u>B.Lee</u>	RIG TYPE: <u>Geoprobe 6620DT</u>	

DRILLING INFORMATION		
HAMMER TYPE: <u>Automatic</u>	CASING I.D./O.D.: <u>2.125 inch / 2.25 inch</u>	CORE BARREL TYPE: <u>Macrocore</u>
AUGER I.D./O.D.: <u>NA / NA</u>	DRILL ROD O.D.: <u>NM</u>	CORE BARREL I.D./O.D. <u>NA / NA</u>
DRILLING METHOD: <u>Geoprobe</u>		

ABBREVIATIONS:

Pen. = Penetration Length	S = Split Spoon Sample	Qp = Pocket Penetrometer Strength	NA, NM = Not Applicable, Not Measured
Rec. = Recovery Length	C = Core Sample	Sv = Pocket Torvane Shear Strength	Blows per 6 in.: 140-lb hammer falling
RQD = Rock Quality Designation	U = Undisturbed Sample	LL = Liquid Limit	30 inches to drive a 2-inch-O.D.
= Length of Sound Cores > 4 in / Pen., %	SC = Sonic Core	PI = Plasticity Index	split spoon sampler.
WOR = Weight of Rods	DP = Direct Push Sample	PID = Photoionization Detector	
WOH = Weight of Hammer	HSA = Hollow-Stem Auger	I.D./O.D. = Inside Diameter/Outside Diameter	

Elev. (ft)	Depth (ft)	Sample Information				Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		Sample No.	Depth (ft)	Pen./Rec. (in)	Blows per 6 in. or RQD			
		S1	0 to 3	36/27	NA	0.0 ppm	FILL	S1: (0-3"): ASPHALT S1: (3-7"): NARROWLY GRADED SAND WITH GRAVEL (SP); ~50% mostly fine sand, ~45% subangular gravel (0-0.5"), ~5% non-plastic fines, loose. S1: (7-15"): WIDELY GRADED SAND WITH GRAVEL (SW); ~65% fine to coarse sand, ~30% subangular gravel (0-0.75"), ~5% non-plastic fines, black, loose. Burnt odor. S1: (15-27"): WIDELY GRADED SAND (SW); ~90% fine to coarse sand, ~5% subrounded gravel (0-0.25"), ~5% non-plastic fines, tan to brown, loose. Bottom of boring at depth 3 ft.
	5							
	10							
	15							
	20							

NOTES: ppm = parts per million	PROJECT NAME: Former Tombarello Site CITY/STATE: Lawrence, Massachusetts GEI PROJECT NUMBER: 1802441
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GEI WOBURN STD 14-LOCATION-LAYER NAME BORING LOGS 2020 - COPY.GPJ 3/31/20

BORING INFORMATION		BORING Lot 1 Disp-02B PAGE 1 of 1
LOCATION: Near south boundary of NW portion of Lot 1		
GROUND SURFACE EL. (ft): <u>NA</u>	DATE START/END: <u>3/12/2020 - 3/12/2020</u>	
VERTICAL DATUM: <u>NA</u>	DRILLING COMPANY: <u>Northern Drill Service, Inc.</u>	
TOTAL DEPTH (ft): <u>3.0</u>	DRILLER NAME: <u>C. Devillers</u>	
LOGGED BY: <u>B.Lee</u>	RIG TYPE: <u>Geoprobe 6620DT</u>	

DRILLING INFORMATION		
HAMMER TYPE: <u>Automatic</u>	CASING I.D./O.D.: <u>2.125 inch / 2.25 inch</u>	CORE BARREL TYPE: <u>Macrocore</u>
AUGER I.D./O.D.: <u>NA / NA</u>	DRILL ROD O.D.: <u>NM</u>	CORE BARREL I.D./O.D. <u>NA / NA</u>
DRILLING METHOD: <u>Geoprobe</u>		

ABBREVIATIONS:

Pen. = Penetration Length	S = Split Spoon Sample	Qp = Pocket Penetrometer Strength	NA, NM = Not Applicable, Not Measured
Rec. = Recovery Length	C = Core Sample	Sv = Pocket Torvane Shear Strength	Blows per 6 in.: 140-lb hammer falling
RQD = Rock Quality Designation	U = Undisturbed Sample	LL = Liquid Limit	30 inches to drive a 2-inch-O.D.
= Length of Sound Cores > 4 in / Pen., %	SC = Sonic Core	PI = Plasticity Index	split spoon sampler.
WOR = Weight of Rods	DP = Direct Push Sample	PID = Photoionization Detector	
WOH = Weight of Hammer	HSA = Hollow-Stem Auger	I.D./O.D. = Inside Diameter/Outside Diameter	

Elev. (ft)	Depth (ft)	Sample Information				Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		Sample No.	Depth (ft)	Pen./Rec. (in)	Blows per 6 in. or RQD			
		S1	0 to 3	36/30	NA	0.3 ppm	FILL	S1: (0-3"): ASPHALT S1: (3-6"): WIDELY GRADED SAND WITH GRAVEL (SW); ~50% fine to coarse sand, ~45% subangular gravel (0-0.5"), ~5% non-plastic fines, loose, gray. S1: 6-30"): NARROWLY GRADED SAND WITH SILT (SP-SM); ~85% mostly fine sand, ~10% non-plastic fines, ~5% subrounded gravel (0-0.25"), medium dense, dark brown. Bottom of boring at depth 3 ft.
	5							
	10							
	15							
	20							

NOTES: ppm = parts per million	PROJECT NAME: Former Tombarello Site CITY/STATE: Lawrence, Massachusetts GEI PROJECT NUMBER: 1802441
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GEI WOBURN STD 1-LOCATION-LAYER NAME BORING LOGS 2020 - COPY.GPJ 3/31/20

BORING INFORMATION	BORING
LOCATION: Near south boundary of NW portion of Lot 1	Lot 1 Disp-02C
GROUND SURFACE EL. (ft): <u>NA</u>	
DATE START/END: <u>3/12/2020 - 3/12/2020</u>	
DRILLING COMPANY: <u>Northern Drill Service, Inc.</u>	
VERTICAL DATUM: <u>NA</u>	PAGE 1 of 1
TOTAL DEPTH (ft): <u>3.0</u>	
DRILLER NAME: <u>C. Devillers</u>	
LOGGED BY: <u>B.Lee</u>	
RIG TYPE: <u>Geoprobe 6620DT</u>	

DRILLING INFORMATION			
HAMMER TYPE: <u>Automatic</u>	CASING I.D./O.D.: <u>2.125 inch / 2.25 inch</u>	CORE BARREL TYPE: <u>Macrocore</u>	
AUGER I.D./O.D.: <u>NA / NA</u>	DRILL ROD O.D.: <u>NM</u>	CORE BARREL I.D./O.D. <u>NA / NA</u>	
DRILLING METHOD: <u>Geoprobe</u>			

ABBREVIATIONS:

Pen. = Penetration Length	S = Split Spoon Sample	Qp = Pocket Penetrometer Strength	NA, NM = Not Applicable, Not Measured
Rec. = Recovery Length	C = Core Sample	Sv = Pocket Torvane Shear Strength	Blows per 6 in.: 140-lb hammer falling
RQD = Rock Quality Designation	U = Undisturbed Sample	LL = Liquid Limit	30 inches to drive a 2-inch-O.D.
= Length of Sound Cores > 4 in / Pen., %	SC = Sonic Core	PI = Plasticity Index	split spoon sampler.
WOR = Weight of Rods	DP = Direct Push Sample	PID = Photoionization Detector	
WOH = Weight of Hammer	HSA = Hollow-Stem Auger	I.D./O.D. = Inside Diameter/Outside Diameter	

Elev. (ft)	Depth (ft)	Sample Information				Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		Sample No.	Depth (ft)	Pen./Rec. (in)	Blows per 6 in. or RQD			
		S1	0 to 3	36/27	NA	0.0 ppm	FILL	S1: (0-3"): ASPHALT S1: (3-5"): NARROWLY GRADED SAND WITH GRAVEL (SP); ~50% mostly fine sand, ~45% subangular gravel (0-0.5"), ~5% non-plastic fines, loose, light gray. S1: (5-23"): WIDELY GRADED SAND WITH GRAVEL (SW); ~70% fine to coarse sand, ~25% subangular gravel, ~5% non-plastic fines, loose, brown to black. S1: (23-27"): DRIED PAINT/CAULKING; No visible grains, white. Bottom of boring at depth 3 ft.
	5							
	10							
	15							
	20							

NOTES: ppm = parts per million	PROJECT NAME: Former Tombarello Site CITY/STATE: Lawrence, Massachusetts GEI PROJECT NUMBER: 1802441
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GEI WOBURN STD 14-LOCATION-LAYER NAME BORING LOGS 2020 - COPY.GPJ 3/31/20

Appendix D

Lab Data Reports

Laboratory Report

Nobis Engineering, Inc
 585 Middlesex Street
 Lowell, MA 01851

Work Order: R0530
 Project : Lawrence, MA site
 Project #:

Attn: Gail DeRuzzo

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
R0530-01	MS-02-0102	Soil	10-Jun-16 08:00	14-Jun-16 11:03
R0530-02	MS-02-0203	Soil	10-Jun-16 08:05	14-Jun-16 11:03
R0530-03	NPA-07-0.502	Soil	10-Jun-16 08:15	14-Jun-16 11:03
R0530-04	NPA-07-0203	Soil	10-Jun-16 08:20	14-Jun-16 11:03
R0530-05	MS-03-0102	Soil	10-Jun-16 08:45	14-Jun-16 11:03
R0530-06	MS-03-0203	Soil	10-Jun-16 08:50	14-Jun-16 11:03
R0530-07	MS-01-0102	Soil	10-Jun-16 09:05	14-Jun-16 11:03
R0530-08	MS-01-0203	Soil	10-Jun-16 09:10	14-Jun-16 11:03
R0530-09	MS-01-1213	Soil	10-Jun-16 09:15	14-Jun-16 11:03
R0530-10	NPA-06-0.502	Soil	10-Jun-16 10:00	14-Jun-16 11:03
R0530-11	NPA-06-0203	Soil	10-Jun-16 10:05	14-Jun-16 11:03
R0530-12	NPA-05-0.502	Soil	10-Jun-16 10:10	14-Jun-16 11:03
R0530-13	NPA-05-0203	Soil	10-Jun-16 10:15	14-Jun-16 11:03
R0530-14	NPA-04-0.502	Soil	10-Jun-16 10:20	14-Jun-16 11:03
R0530-15	NPA-04-0203	Soil	10-Jun-16 10:25	14-Jun-16 11:03
R0530-16	NPA-03-0.502	Soil	10-Jun-16 10:40	14-Jun-16 11:03
R0530-17	NPA-03-0203	Soil	10-Jun-16 10:45	14-Jun-16 11:03
R0530-18	NPA-01-0.502	Soil	10-Jun-16 10:55	14-Jun-16 11:03
R0530-19	NPA-01-0203	Soil	10-Jun-16 11:00	14-Jun-16 11:03
R0530-20	NPA-02-0.502	Soil	10-Jun-16 11:20	14-Jun-16 11:03
R0530-21	NPA-02-0203	Soil	10-Jun-16 11:25	14-Jun-16 11:03
R0530-22	NPA-02-0607	Soil	10-Jun-16 11:30	14-Jun-16 11:03
R0530-23	TB-01	Soil	10-Jun-16 08:00	14-Jun-16 11:03

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

All applicable NELAP or USEPA CLP requirements have been met.

Use of the NELAP logo does not insure that Eurofins Spectrum Analytical is currently accredited for the specific test method or analyte. Please refer to our Quality page of our web site at www.spectrum-analytical.com for the current list of certifications and fields of accreditation.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Connecticut	PH-0153
Florida	E87664
Massachusetts	M-RI907
New Hampshire	2060
New Jersey	RI001
New York	11522
Rhode Island	LAI00349
USDA	P330-16-00031
USEPA - ISM	EP-W-14-032
USEPA - SOM	EP-W-14-032
Dod ELAP	L2247



Certificate # L2247 Testing

Authorized by:

Yihai Ding
 Laboratory Director

MassDEP Analytical Protocol Certification Form

Laboratory Name: Eurofins Spectrum Analytical – RI

Project #: R0530

Project Location: Lawrence

RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

R0530-01 → R0530-23

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input checked="" type="checkbox"/>	MassDEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	MassDEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input checked="" type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	MassDEP EPH CAM IV B <input checked="" type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input checked="" type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	<i>See Spectrum - MA report for EPH. (Enclosed)</i>

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	<p>VPH, EPH, APH, and TO-15 only: <i>see Spectrum - MA report for EPH</i></p> <p>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).</p> <p>b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	-----------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved? <i>See Narrative</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹All negative responses must be addressed in an attached laboratory narrative. *SVOC = PAH only; Metals = PLCA-8*

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: *Edward Lawler*

Position: Senior Project Manager

Printed Name: Edward Lawler
R0530

Date: 7/1/16 Page 2 of 123

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Lawrence, MA site

Laboratory Workorder / SDG #: R0530

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCSD-84798 in batch 84798, recovery is above criteria for 1,4-Dioxane at 134% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. W.', written over a horizontal line.

Signed: _____

Date: _____ 6/27/2016 _____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Lawrence, MA site

Laboratory Workorder / SDG #: R0530

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times with the following exceptions:

NPA-07-0.502 (R0530-03ARE) exceed by 3 Days

NPA-01-0.502 (R0530-18ARE) exceed by 3 Days

Please note these samples were initially extracted within holding times. They were re-extracted due to surrogate failures. Both sets of data are included.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3

Instrument Type: GCMS-SEMI

Description: HP6890 / HP5973

Manufacturer: Hewlett-Packard

Model: 6890 / 5973

GC Column used: 30 m X 0.25 mm ID [0.25 um thickness] ZB-Semi capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

NPA-07-0.502 (R0530-03A), recovery is below criteria for 2-Fluorobiphenyl at 28% with criteria of (45-105), Nitrobenzene-d5 at 26% with criteria of (35-100) and Terphenyl-d14 at 28% with criteria of (30-125).

NPA-07-0.502 (R0530-03ARE) Surrogate outside of QC limit due to dilution, recovery is below criteria for 2-Fluorobiphenyl at 23% with criteria of (45-105), Nitrobenzene-d5 at 18% with criteria of (35-100) and Terphenyl-d14 at 19% with criteria of (30-125).

NPA-06-0.502 (R0530-10A) Surrogate outside of QC limit due to dilution, recovery is below criteria for 2-Fluorobiphenyl at 0% with criteria of (45-105), Nitrobenzene-d5 at 0% with criteria of (35-100) and Terphenyl-d14 at 0% with criteria of (30-125).

NPA-04-0203 (R0530-15A), recovery is below criteria for 2-Fluorobiphenyl at 44% with criteria of (45-105).

NPA-04-0203 (R0530-15ADL) Surrogate outside of QC limit due to

dilution, recovery is below criteria for 2-Fluorobiphenyl at 39% with criteria of (45-105) and Nitrobenzene-d5 at 34% with criteria of (35-100).

NPA-03-0.502 (R0530-16A) Surrogate outside of QC limit due to dilution, recovery is below criteria for 2-Fluorobiphenyl at 0% with criteria of (45-105), Nitrobenzene-d5 at 0% with criteria of (35-100) and Terphenyl-d14 at 0% with criteria of (30-125).

NPA-01-0.502 (R0530-18A), recovery is below criteria for 2-Fluorobiphenyl at 30% with criteria of (45-105) and Nitrobenzene-d5 at 26% with criteria of (35-100).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits with the following exceptions:

MS-02-0203 (R0530-02A), Peak area is outside QC Limits for Perylene-d12. Please note the internal standard peak areas were within the QC limits in the dilution analysis.

F. Dilutions:

The following samples were analyzed at dilution:

MS-02-0203 (R0530-02ADL) : Dilution Factor: 10
NPA-07-0.502 (R0530-03ARE) : Dilution Factor: 5
MS-01-0203 (R0530-08ADL) : Dilution Factor: 4
NPA-06-0.502 (R0530-10A) : Dilution Factor: 200
NPA-05-0.502 (R0530-12ADL) : Dilution Factor: 20
NPA-04-0203 (R0530-15ADL) : Dilution Factor: 10
NPA-03-0.502 (R0530-16A) : Dilution Factor: 100
NPA-01-0.502 (R0530-18ARE) : Dilution Factor: 4

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

Manual integrations were performed on the following:

MS-02-0203 (R0530-02A) Benzo(k)fluoranthene due to M2

MS-02-0203 (R0530-02ADL) Benzo(k)fluoranthene due to M2

NPA-07-0.502 (R0530-03A) Benzo(k)fluoranthene due to M2

MS-01-0203 (R0530-08A) Benzo(k)fluoranthene due to M2

MS-01-0203 (R0530-08ADL) Benzo(k)fluoranthene due to M2

NPA-06-0.502 (R0530-10A) Benzo(k)fluoranthene due to M2

NPA-05-0.502 (R0530-12A) Benzo(k)fluoranthene due to M2

NPA-05-0.502 (R0530-12ADL) Benzo(k)fluoranthene due to M2

NPA-04-0203 (R0530-15A) Benzo(k)fluoranthene due to M6

NPA-04-0203 (R0530-15ADL) Benzo(k)fluoranthene due to M2

NPA-03-0.502 (R0530-16A) Benzo(k)fluoranthene due to M2

NPA-01-0.502 (R0530-18A) Benzo(k)fluoranthene due to M2

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. W.', written over a horizontal line.

Signed: _____

Date: _____ 7/1/2016 _____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Lawrence, MA site

Laboratory Workorder / SDG #: R0530

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3540C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

MS-02-0102 (R0530-01A) Surrogate outside of QC limit due to dilution, recovery is above criteria for Decachlorobiphenyl on rear column at 161% with criteria of (60-125), recovery is below criteria for Decachlorobiphenyl on front column at 0% with criteria of (60-125) and Tetrachloro-m-xylene on rear column at 0% with criteria of (34-147).

MS-02-0203 (R0530-02A) Surrogate outside of QC limit due to dilution, recovery is above criteria for Decachlorobiphenyl on rear column at 127% with criteria of (60-125), Decachlorobiphenyl on front column at 127% with criteria of (60-125), recovery is below criteria for and Tetrachloro-m-xylene on rear column at 13% with criteria of (34-147).

NPA-06-0.502 (R0530-10A) Surrogate outside of QC limit due to dilution, recovery is above criteria for Decachlorobiphenyl on rear column at 1278% with criteria of (60-125) and Decachlorobiphenyl on front column at 260% with criteria of (60-125).

NPA-06-0203 (R0530-11A), recovery is above criteria for Decachlorobiphenyl on rear column at 166% with criteria of (60-125), recovery is below criteria for and Decachlorobiphenyl on front column at 46% with criteria of (60-125).

NPA-05-0.502 (R0530-12A) Surrogate outside of QC limit due to dilution, recovery is above criteria for Decachlorobiphenyl on rear column at 203% with criteria of (60-125).

NPA-05-0203 (R0530-13A), recovery is above criteria for Decachlorobiphenyl on rear column at 294% with criteria of (60-125), recovery is below criteria for and Decachlorobiphenyl on front column at 39% with criteria of (60-125).

NPA-04-0203 (R0530-15A), recovery is below criteria for Decachlorobiphenyl on rear column at 60% with criteria of (60-125) and Decachlorobiphenyl on front column at 60% with criteria of (60-125).

NPA-03-0.502 (R0530-16A) Surrogate outside of QC limit due to dilution, recovery is above criteria for Decachlorobiphenyl on rear column at 1428% with criteria of (60-125), Decachlorobiphenyl on front column at 566% with criteria of (60-125), Tetrachloro-m-xylene on rear column at 271% with criteria of (34-147) and Tetrachloro-m-xylene on front column at 191% with criteria of (34-147).

NPA-01-0.502 (R0530-18A) Surrogate outside of QC limit due to dilution, recovery is above criteria for Decachlorobiphenyl on rear column at 221% with criteria of (60-125) and Decachlorobiphenyl on front column at 270% with criteria of (60-125).

NPA-02-0.502 (R0530-20A), recovery is above criteria for Decachlorobiphenyl on rear column at 343% with criteria of (60-125).

NPA-02-0203 (R0530-21A) Surrogate outside of QC limit due to dilution, recovery is below criteria for Tetrachloro-m-xylene on rear column at 0% with criteria of (34-147).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

The following samples were analyzed at dilution:

MS-02-0102 (R0530-01A) : Dilution Factor: 200

MS-02-0203 (R0530-02A) : Dilution Factor: 10

NPA-07-0.502 (R0530-03A) : Dilution Factor: 10
NPA-06-0.502 (R0530-10A) : Dilution Factor: 10
NPA-05-0.502 (R0530-12A) : Dilution Factor: 2
NPA-03-0.502 (R0530-16A) : Dilution Factor: 10
NPA-01-0.502 (R0530-18A) : Dilution Factor: 2
NPA-02-0203 (R0530-21A) : Dilution Factor: 200

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

AR12483XA Aroclor-1248 on front column due to M4

AR12483XC Aroclor-1248 on front column due to M4

MS-02-0102 (R0530-01A) Aroclor-1248 on front column due to M4

MS-02-0203 (R0530-02A) Aroclor-1248 on front column due to M4

NPA-07-0.502 (R0530-03A) Aroclor-1248 on front column due to M4

NPA-06-0.502 (R0530-10A) Aroclor-1248 on rear column , Aroclor-1248 on front column due to M4

NPA-05-0.502 (R0530-12A) Aroclor-1248 on rear column , Aroclor-1248 on front column due to M4

NPA-01-0.502 (R0530-18A) Aroclor-1248 on rear column , Aroclor-1248 on front column due to M4

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. W. P.', written over a horizontal line.

Signed: _____

Date: _____ 6/29/2016 _____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Lawrence, MA site

Laboratory Workorder / SDG #: R0530

SW846 6010C, SW846 7471B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: SW846 6010C, SW846 7471B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B

Soil Samples were prepared following procedures in laboratory test code: SW7471B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA4
Instrument Type: ICP
Description: Optima 8300 ICP-OES
Manufacturer: Perkin-Elmer
Model: Optima 8300 ICP-OES

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: NPA-02-0203 (R0530-21AMS).

Percent recoveries were within the QC limits with the exception of Arsenic.

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on sample: NPA-02-0203 (R0530-21APDS).

NPA-02-0203 (R0530-21APDS) for Arsenic due to recovery of this element outside of QC limits in the matrix spike.

E. Duplicate sample:

Duplicate analyses were performed on sample: NPA-02-0203 (R0530-21ADUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on sample: NPA-02-0203 (R0530-21ASD).

Percent differences were within the QC limits.

G. Samples:

Elements marked with "BJR or JR" Qualifiers for DUP or SD does not meet the concentration criteria that are required to meet QC limits. Our software system used for the QC summary is unable to account for this and applies the R qualifier to all values over 20% RPD or 10%D regardless of concentration.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Eurofins Spectrum Analytical, Inc. RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 06/28/16

Client: Nobis Engineering, Inc
Client Sample ID: MS-01-1213
Lab ID: R0530-09

Project: Lawrence, MA site
Collection Date: 06/10/16 9:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
Dichlorodifluoromethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Chloromethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Vinyl chloride	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Bromomethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Chloroethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Trichlorofluoromethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,1-Dichloroethene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Acetone	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Carbon disulfide	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Methylene chloride	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
trans-1,2-Dichloroethene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Methyl tert-butyl ether	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,1-Dichloroethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
2-Butanone	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
cis-1,2-Dichloroethene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
2,2-Dichloropropane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Bromochloromethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Chloroform	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,1,1-Trichloroethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,1-Dichloropropene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Carbon tetrachloride	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,2-Dichloroethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Benzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Trichloroethene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,2-Dichloropropane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Dibromomethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Bromodichloromethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
cis-1,3-Dichloropropene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
4-Methyl-2-pentanone	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Toluene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
trans-1,3-Dichloropropene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,1,2-Trichloroethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,3-Dichloropropane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Tetrachloroethene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
2-Hexanone	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Dibromochloromethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,2-Dibromoethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Chlorobenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: MS-01-1213
Lab ID: R0530-09

Project: Lawrence, MA site
Collection Date: 06/10/16 9:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
1,1,1,2-Tetrachloroethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Ethylbenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
m,p-Xylene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
o-Xylene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Xylene (Total)	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Styrene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Bromoform	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Isopropylbenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,1,2,2-Tetrachloroethane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Bromobenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,2,3-Trichloropropane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
n-Propylbenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
2-Chlorotoluene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,3,5-Trimethylbenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
4-Chlorotoluene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
tert-Butylbenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,2,4-Trimethylbenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
sec-Butylbenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
4-Isopropyltoluene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,3-Dichlorobenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,4-Dichlorobenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
n-Butylbenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,2-Dichlorobenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,2-Dibromo-3-chloropropane	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,2,4-Trichlorobenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Hexachlorobutadiene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,2,3-Trichlorobenzene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Naphthalene	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
1,4-Dioxane	ND		91	ug/Kg		1 06/15/2016 13:53	84798
Diethyl ether	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Diisopropyl ether	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Ethyl tert-butyl ether	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
tert-Amyl Methyl ether	ND		4.5	ug/Kg		1 06/15/2016 13:53	84798
Tetrahydrofuran	ND		9.1	ug/Kg		1 06/15/2016 13:53	84798
Surrogate: Dibromofluoromethane	103		76-128	%REC		1 06/15/2016 13:53	84798
Surrogate: 1,2-Dichloroethane-d4	101		88-110	%REC		1 06/15/2016 13:53	84798
Surrogate: Toluene-d8	99.0		85-115	%REC		1 06/15/2016 13:53	84798
Surrogate: Bromofluorobenzene	98.9		85-120	%REC		1 06/15/2016 13:53	84798

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-02-0607
Lab ID: R0530-22

Project: Lawrence, MA site
Collection Date: 06/10/16 11:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
Dichlorodifluoromethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Chloromethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Vinyl chloride	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Bromomethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Chloroethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Trichlorofluoromethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,1-Dichloroethene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Acetone	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Carbon disulfide	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Methylene chloride	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
trans-1,2-Dichloroethene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Methyl tert-butyl ether	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,1-Dichloroethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
2-Butanone	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
cis-1,2-Dichloroethene	0.89	J	4.2	ug/Kg		1 06/15/2016 14:19	84798
2,2-Dichloropropane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Bromochloromethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Chloroform	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,1,1-Trichloroethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,1-Dichloropropene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Carbon tetrachloride	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,2-Dichloroethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Benzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Trichloroethene	1.8	J	4.2	ug/Kg		1 06/15/2016 14:19	84798
1,2-Dichloropropane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Dibromomethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Bromodichloromethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
cis-1,3-Dichloropropene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
4-Methyl-2-pentanone	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Toluene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
trans-1,3-Dichloropropene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,1,2-Trichloroethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,3-Dichloropropane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Tetrachloroethene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
2-Hexanone	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Dibromochloromethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,2-Dibromoethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Chlorobenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-02-0607
Lab ID: R0530-22

Project: Lawrence, MA site
Collection Date: 06/10/16 11:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
1,1,1,2-Tetrachloroethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Ethylbenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
m,p-Xylene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
o-Xylene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Xylene (Total)	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Styrene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Bromoform	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Isopropylbenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,1,2,2-Tetrachloroethane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Bromobenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,2,3-Trichloropropane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
n-Propylbenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
2-Chlorotoluene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,3,5-Trimethylbenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
4-Chlorotoluene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
tert-Butylbenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,2,4-Trimethylbenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
sec-Butylbenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
4-Isopropyltoluene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,3-Dichlorobenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,4-Dichlorobenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
n-Butylbenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,2-Dichlorobenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,2-Dibromo-3-chloropropane	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,2,4-Trichlorobenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Hexachlorobutadiene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,2,3-Trichlorobenzene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Naphthalene	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
1,4-Dioxane	ND		83	ug/Kg		1 06/15/2016 14:19	84798
Diethyl ether	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Diisopropyl ether	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Ethyl tert-butyl ether	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
tert-Amyl Methyl ether	ND		4.2	ug/Kg		1 06/15/2016 14:19	84798
Tetrahydrofuran	ND		8.3	ug/Kg		1 06/15/2016 14:19	84798
Surrogate: Dibromofluoromethane	107		76-128	%REC		1 06/15/2016 14:19	84798
Surrogate: 1,2-Dichloroethane-d4	110		88-110	%REC		1 06/15/2016 14:19	84798
Surrogate: Toluene-d8	106		85-115	%REC		1 06/15/2016 14:19	84798
Surrogate: Bromofluorobenzene	99.5		85-120	%REC		1 06/15/2016 14:19	84798

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: TB-01
Lab ID: R0530-23

Project: Lawrence, MA site
Collection Date: 06/10/16 8:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
Dichlorodifluoromethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Chloromethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Vinyl chloride	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Bromomethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Chloroethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Trichlorofluoromethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,1-Dichloroethene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Acetone	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Carbon disulfide	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Methylene chloride	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Methyl tert-butyl ether	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,1-Dichloroethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
2-Butanone	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
2,2-Dichloropropane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Bromochloromethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Chloroform	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,1,1-Trichloroethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,1-Dichloropropene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Carbon tetrachloride	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,2-Dichloroethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Benzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Trichloroethene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,2-Dichloropropane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Dibromomethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Bromodichloromethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
4-Methyl-2-pentanone	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Toluene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,1,2-Trichloroethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,3-Dichloropropane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Tetrachloroethene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
2-Hexanone	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Dibromochloromethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,2-Dibromoethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Chlorobenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: TB-01
Lab ID: R0530-23

Project: Lawrence, MA site
Collection Date: 06/10/16 8:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Ethylbenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
m,p-Xylene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
o-Xylene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Xylene (Total)	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Styrene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Bromoform	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Isopropylbenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Bromobenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,2,3-Trichloropropane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
n-Propylbenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
2-Chlorotoluene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
4-Chlorotoluene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
tert-Butylbenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
sec-Butylbenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
4-Isopropyltoluene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,3-Dichlorobenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,4-Dichlorobenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
n-Butylbenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,2-Dichlorobenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,2-Dibromo-3-chloropropane	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Hexachlorobutadiene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Naphthalene	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
1,4-Dioxane	ND		100	ug/Kg		1 06/15/2016 14:46	84798
Diethyl ether	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Diisopropyl ether	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Ethyl tert-butyl ether	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
tert-Amyl Methyl ether	ND		5.0	ug/Kg		1 06/15/2016 14:46	84798
Tetrahydrofuran	ND		10	ug/Kg		1 06/15/2016 14:46	84798
Surrogate: Dibromofluoromethane	104		76-128	%REC		1 06/15/2016 14:46	84798
Surrogate: 1,2-Dichloroethane-d4	108		88-110	%REC		1 06/15/2016 14:46	84798
Surrogate: Toluene-d8	99.1		85-115	%REC		1 06/15/2016 14:46	84798
Surrogate: Bromofluorobenzene	102		85-120	%REC		1 06/15/2016 14:46	84798

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

Client: Nobis Engineering, Inc

Work Order: R0530

SW8260_LOW_S

Project: Lawrence, MA site

SW846 8260C -- VOC by GC-MS

Sample ID	MB-84798	SampType: MBLK	TestCode: SW8260_LOW_S	Prep Date: 06/15/16 11:03	Run ID: V1_160615A							
Client ID:	MB-84798	Batch ID: 84798	Units: ug/Kg	Analysis Date: 06/15/16 13:26	SeqNo: 2379929							
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.98	5.0									
Chloromethane	ND	0.80	5.0									
Vinyl chloride	ND	0.63	5.0									
Bromomethane	ND	1.1	5.0									
Chloroethane	ND	1.0	5.0									
Trichlorofluoromethane	ND	0.42	5.0									
1,1-Dichloroethene	ND	0.95	5.0									
Acetone	ND	1.6	5.0									
Carbon disulfide	ND	0.30	5.0									
Methylene chloride	ND	1.3	5.0									
trans-1,2-Dichloroethene	ND	0.53	5.0									
Methyl tert-butyl ether	ND	0.61	5.0									
1,1-Dichloroethane	ND	0.67	5.0									
2-Butanone	ND	2.0	5.0									
cis-1,2-Dichloroethene	ND	0.75	5.0									
2,2-Dichloropropane	ND	0.29	5.0									
Bromochloromethane	ND	0.76	5.0									
Chloroform	ND	0.64	5.0									
1,1,1-Trichloroethane	ND	0.53	5.0									
1,1-Dichloropropene	ND	0.81	5.0									
Carbon tetrachloride	ND	0.33	5.0									
1,2-Dichloroethane	ND	0.54	5.0									
Benzene	ND	0.61	5.0									
Trichloroethene	ND	0.62	5.0									
1,2-Dichloropropane	ND	0.69	5.0									
Dibromomethane	ND	0.58	5.0									
Bromodichloromethane	ND	0.97	5.0									
cis-1,3-Dichloropropene	ND	0.67	5.0									
4-Methyl-2-pentanone	ND	0.73	5.0									
Toluene	ND	0.47	5.0									
trans-1,3-Dichloropropene	ND	0.68	5.0									
1,1,2-Trichloroethane	ND	0.48	5.0									
1,2-Dichloropropane	ND	0.87	5.0									
1,2,3-Trichloroethane	ND	0.62	5.0									
2-Hexanone	ND	0.83	5.0									
Dibromochloromethane	ND	0.65	5.0									
1,2-Dibromoethane	ND	0.74	5.0									

Qualifiers: ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

Client: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID MB-84798 **SampType:** MBLK **TestCode:** SW8260_LOW_S **Prep Date:** 06/15/16 11:03 **Run ID:** V1_160615A
Client ID: MB-84798 **Batch ID:** 84798 **Units:** ug/Kg **Analysis Date:** 06/15/16 13:26 **SeqNo:** 2379929

Analyte	Result	MDL	RL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.51	5.0								
1,1,1,2-Tetrachloroethane	ND	0.77	5.0								
Ethylbenzene	ND	0.50	5.0								
m,p-Xylene	ND	1.6	5.0								
o-Xylene	ND	0.47	5.0								
Xylene (Total)	ND	0.47	5.0								
Styrene	ND	0.52	5.0								
Bromoform	ND	2.0	5.0								
Isopropylbenzene	ND	0.58	5.0								
1,1,2,2-Tetrachloroethane	ND	0.68	5.0								
Bromobenzene	ND	0.58	5.0								
1,2,3-Trichloropropane	ND	0.87	5.0								
n-Propylbenzene	ND	0.44	5.0								
2-Chlorotoluene	ND	0.74	5.0								
1,3,5-Trimethylbenzene	ND	0.61	5.0								
4-Chlorotoluene	ND	0.84	5.0								
tert-Butylbenzene	ND	0.52	5.0								
1,2,4-Trimethylbenzene	ND	0.57	5.0								
sec-Butylbenzene	ND	0.62	5.0								
4-Isopropyltoluene	ND	0.71	5.0								
1,3-Dichlorobenzene	ND	0.70	5.0								
1,4-Dichlorobenzene	ND	0.80	5.0								
n-Butylbenzene	ND	0.67	5.0								
1,2-Dichlorobenzene	ND	0.62	5.0								
1,2-Dibromo-3-chloropropane	ND	1.3	5.0								
1,2,4-Trichlorobenzene	ND	0.63	5.0								
Hexachlorobutadiene	ND	0.62	5.0								
1,2,3-Trichlorobenzene	ND	0.64	5.0								
Naphthalene	ND	0.78	5.0								
1,4-Dioxane	ND	61	100								
Diethyl ether	ND	1.3	5.0								
Diisopropyl ether	ND	0.61	5.0								
Ethyl tert-butyl ether	ND	0.85	5.0								
tert-Amyl Methyl ether	ND	1.1	5.0								
Tetrahydrofuran	ND	4.6	10								
Surrogate:	50.40		5.0	50.00	0	10.1	76	128	0		
Dibromofluoromethane	51.90		5.0	50.00	0	10.4	88	110	0		
Surrogate: 1,2-Dichloroethane-d4											

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID MB-84798 **SampType:** MBLK **TestCode:** SW8260_LOW_S **Prep Date:** 06/15/16 11:03 **Run ID:** V1_160615A
Client ID: MB-84798 **Batch ID:** 84798 **Units:** ug/Kg **Analysis Date:** 06/15/16 13:26 **SeqNo:** 2379929

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Toluene-d8	48.86		5.0	50.00	0	97.7	85	115	0		0	
Surrogate: Bromofluorobenzene	48.27		5.0	50.00	0	96.5	85	120	0		0	

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCS-84798 **SampType:** LCS **TestCode:** SW8260_LOW_S **Prep Date:** 06/15/16 11:03 **Run ID:** V1_160615A
Client ID: LCS-84798 **Batch ID:** 84798 **Units:** ug/Kg **Analysis Date:** 06/15/16 12:07 **SeqNo:** 2379927

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	44.32	0.98	5.0	50.00	0	88.6	35	135	0			
Chloromethane	47.96	0.80	5.0	50.00	0	95.9	50	130	0			
Vinyl chloride	48.31	0.63	5.0	50.00	0	96.6	60	125	0			
Bromomethane	44.69	1.1	5.0	50.00	0	89.4	30	160	0			
Chloroethane	47.69	1.0	5.0	50.00	0	95.4	40	155	0			
Trichlorofluoromethane	47.99	0.42	5.0	50.00	0	96.0	25	185	0			
1,1-Dichloroethene	43.89	0.95	5.0	50.00	0	87.8	65	135	0			
Acetone	54.53	1.6	5.0	50.00	0	109	20	160	0			
Carbon disulfide	24.80	0.30	5.0	50.00	0	49.6	45	160	0			
Methylene chloride	47.11	1.3	5.0	50.00	0	94.2	55	140	0			
trans-1,2-Dichloroethene	45.86	0.53	5.0	50.00	0	91.7	65	135	0			
Methyl tert-butyl ether	49.25	0.61	5.0	50.00	0	98.5	75	126	0			
1,1-Dichloroethane	45.79	0.67	5.0	50.00	0	91.6	75	125	0			
2-Butanone	55.57	2.0	5.0	50.00	0	111	30	160	0			
cis-1,2-Dichloroethene	45.30	0.75	5.0	50.00	0	90.6	65	125	0			
2,2-Dichloropropane	56.09	0.29	5.0	50.00	0	112	65	135	0			
Bromochloromethane	47.28	0.76	5.0	50.00	0	94.6	70	125	0			
Chloroform	44.42	0.64	5.0	50.00	0	88.8	70	125	0			
1,1,1-Trichloroethane	52.31	0.53	5.0	50.00	0	105	70	135	0			
1,1-Dichloropropene	45.91	0.81	5.0	50.00	0	91.8	70	135	0			
Carbon tetrachloride	46.83	0.33	5.0	50.00	0	93.7	65	135	0			
1,2-Dichloroethane	48.05	0.54	5.0	50.00	0	96.1	70	135	0			
Benzene	45.98	0.61	5.0	50.00	0	92.0	75	125	0			
Trichloroethene	46.06	0.62	5.0	50.00	0	92.1	75	125	0			
1,2-Dichloropropane	48.80	0.69	5.0	50.00	0	97.6	70	120	0			
Dibromomethane	47.89	0.58	5.0	50.00	0	95.8	75	130	0			
Bromodichloromethane	47.31	0.97	5.0	50.00	0	94.6	70	130	0			
cis-1,3-Dichloropropene	48.61	0.67	5.0	50.00	0	97.2	70	125	0			
4-Methyl-2-pentanone	56.57	0.73	5.0	50.00	0	113	45	145	0			
Toluene	46.28	0.47	5.0	50.00	0	92.6	70	125	0			
trans-1,3-Dichloropropene	49.97	0.68	5.0	50.00	0	99.9	65	125	0			
1,1,2-Trichloroethane	48.58	0.48	5.0	50.00	0	97.2	60	125	0			
1,3-Dichloropropane	45.98	0.87	5.0	50.00	0	92.0	75	125	0			
Tetrachloroethene	40.94	0.62	5.0	50.00	0	81.9	65	140	0			
2-Hexanone	55.30	0.83	5.0	50.00	0	111	45	145	0			
Dibromochloromethane	47.15	0.65	5.0	50.00	0	94.3	65	130	0			
1,2-Dibromoethane	47.74	0.74	5.0	50.00	0	95.5	70	125	0			
Chlorobenzene	43.97	0.51	5.0	50.00	0	87.9	75	125	0			
1,1,1,2-Tetrachloroethane	45.22	0.77	5.0	50.00	0	90.4	75	125	0			

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

Client: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCS-84798 **SampType:** LCS **TestCode:** SW8260_LOW_S **Prep Date:** 06/15/16 11:03 **Run ID:** V1_160615A
Client ID: LCS-84798 **Batch ID:** 84798 **Units:** ug/Kg **Analysis Date:** 06/15/16 12:07 **SeqNo:** 2379927

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	43.69	0.50	5.0	50.00	0	87.4	75	125	0			
m,p-Xylene	85.77	1.6	5.0	100.0	0	85.8	80	125	0			
o-Xylene	45.47	0.47	5.0	50.00	0	90.9	75	125	0			
Xylene (Total)	131.2	0.47	5.0	150.0	0	87.5	83	125	0			
Styrene	44.81	0.52	5.0	50.00	0	89.6	75	125	0			
Bromoform	48.12	2.0	5.0	50.00	0	96.2	55	135	0			
Isopropylbenzene	45.43	0.58	5.0	50.00	0	90.9	75	130	0			
1,1,2,2-Tetrachloroethane	48.78	0.68	5.0	50.00	0	97.6	55	130	0			
Bromobenzene	45.46	0.58	5.0	50.00	0	90.9	65	120	0			
1,2,3-Trichloropropane	48.78	0.87	5.0	50.00	0	97.6	65	130	0			
n-Propylbenzene	45.89	0.44	5.0	50.00	0	91.8	65	135	0			
2-Chlorotoluene	44.71	0.74	5.0	50.00	0	89.4	70	130	0			
1,3,5-Trimethylbenzene	45.61	0.61	5.0	50.00	0	91.2	65	135	0			
4-Chlorotoluene	45.93	0.84	5.0	50.00	0	91.9	75	125	0			
tert-Butylbenzene	46.87	0.52	5.0	50.00	0	93.7	65	130	0			
1,2,4-Trimethylbenzene	46.35	0.57	5.0	50.00	0	92.7	65	135	0			
sec-Butylbenzene	45.93	0.62	5.0	50.00	0	91.9	65	130	0			
4-Isopropyltoluene	46.65	0.71	5.0	50.00	0	93.3	75	135	0			
1,3-Dichlorobenzene	45.93	0.70	5.0	50.00	0	91.9	70	125	0			
1,4-Dichlorobenzene	45.27	0.80	5.0	50.00	0	90.5	70	125	0			
n-Butylbenzene	47.22	0.67	5.0	50.00	0	94.4	65	140	0			
1,2-Dichlorobenzene	46.35	0.62	5.0	50.00	0	92.7	75	120	0			
1,2-Dibromo-3-chloropropane	56.74	1.3	5.0	50.00	0	113	40	135	0			
1,2,4-Trichlorobenzene	50.49	0.63	5.0	50.00	0	101	65	130	0			
Hexachlorobutadiene	45.01	0.62	5.0	50.00	0	90.0	55	140	0			
1,2,3-Trichlorobenzene	50.73	0.64	5.0	50.00	0	101	60	135	0			
Naphthalene	53.51	0.78	5.0	50.00	0	107	40	125	0			
1,4-Dioxane	1094	61	100	1000	0	109	70	130	0			
Diethyl ether	50.46	1.3	5.0	50.00	0	101	70	130	0			
Diisopropyl ether	47.24	0.61	5.0	50.00	0	94.5	70	130	0			
Ethyl tert-butyl ether	49.19	0.85	5.0	50.00	0	98.4	70	130	0			
tert-Amyl Methyl ether	49.29	1.1	5.0	50.00	0	98.6	70	130	0			
Tetrahydrofuran	109.5	4.6	10	100.0	0	110	70	130	0			
Surrogate:	50.17		5.0	50.00	0	100	76	128	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	54.59		5.0	50.00	0	109	88	110	0			
Surrogate: Toluene-d8	48.42		5.0	50.00	0	96.8	85	115	0			

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID **LCS-84798** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **06/15/16 11:03** Run ID: **V1_160615A**
Client ID: **LCS-84798** Batch ID: **84798** Units: **ug/Kg** Analysis Date: **06/15/16 12:07** SeqNo: **2379927**
Analyte Result MDL RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Surrogate:
Bromofluorobenzene

50.59 5.0 50.00 0 101 85 120 0

ANALYTICAL QC SUMMARY REPORT

Client: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID LCSD-84798 **SampType:** LCSD **TestCode:** SW8260_LOW_S **Prep Date:** 06/15/16 11:03 **Run ID:** V1_160615A
Client ID: LCSD-84798 **Batch ID:** 84798 **Units:** ug/Kg **Analysis Date:** 06/15/16 12:34 **SeqNo:** 2379928

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	40.91	0.98	5.0	50.00	0	81.8	35	135	44.32	8.01	30	
Chloromethane	46.42	0.80	5.0	50.00	0	92.8	50	130	47.96	3.27	30	
Vinyl chloride	45.58	0.63	5.0	50.00	0	91.2	60	125	48.31	5.82	30	
Bromomethane	44.39	1.1	5.0	50.00	0	88.8	30	160	44.69	0.674	30	
Chloroethane	46.41	1.0	5.0	50.00	0	92.8	40	155	47.69	2.72	30	
Trichlorofluoromethane	46.31	0.42	5.0	50.00	0	92.6	25	185	47.99	3.56	30	
1,1-Dichloroethene	36.35	0.95	5.0	50.00	0	72.7	65	135	43.89	18.8	30	
Acetone	57.60	1.6	5.0	50.00	0	115	20	160	54.53	5.48	30	
Carbon disulfide	24.18	0.30	5.0	50.00	0	48.4	45	160	24.80	2.54	30	
Methylene chloride	46.55	1.3	5.0	50.00	0	93.1	55	140	47.11	1.19	30	
trans-1,2-Dichloroethene	46.83	0.53	5.0	50.00	0	93.7	65	135	45.86	2.09	30	
Methyl tert-butyl ether	50.15	0.61	5.0	50.00	0	100	75	126	49.25	1.82	30	
1,1-Dichloroethane	46.45	0.67	5.0	50.00	0	92.9	75	125	45.79	1.45	30	
2-Butanone	55.71	2.0	5.0	50.00	0	111	30	160	55.57	0.25	30	
cis-1,2-Dichloroethene	45.25	0.75	5.0	50.00	0	90.5	65	125	45.30	0.102	30	
2,2-Dichloropropane	54.88	0.29	5.0	50.00	0	110	65	135	56.09	2.19	30	
Bromochloromethane	47.79	0.76	5.0	50.00	0	95.6	70	125	47.28	1.07	30	
Chloroform	44.71	0.64	5.0	50.00	0	89.4	70	125	44.42	0.654	30	
1,1,1-Trichloroethane	51.15	0.53	5.0	50.00	0	102	70	135	52.31	2.24	30	
1,1-Dichloropropene	44.93	0.81	5.0	50.00	0	89.9	70	135	45.91	2.15	30	
Carbon tetrachloride	45.71	0.33	5.0	50.00	0	91.4	65	135	46.83	2.42	30	
1,2-Dichloroethane	47.20	0.54	5.0	50.00	0	94.4	70	135	48.05	1.78	30	
Benzene	45.05	0.61	5.0	50.00	0	90.1	75	125	45.98	2.04	30	
Trichloroethene	44.61	0.62	5.0	50.00	0	89.2	75	125	46.06	3.2	30	
1,2-Dichloropropane	49.10	0.69	5.0	50.00	0	98.2	70	120	48.80	0.617	30	
Dibromomethane	48.44	0.58	5.0	50.00	0	96.9	75	130	47.89	1.14	30	
Bromodichloromethane	47.42	0.97	5.0	50.00	0	94.8	70	130	47.31	0.237	30	
cis-1,3-Dichloropropene	49.28	0.67	5.0	50.00	0	98.6	70	125	48.61	1.38	30	
4-Methyl-2-pentanone	59.18	0.73	5.0	50.00	0	118	45	145	56.57	4.52	30	
Toluene	45.63	0.47	5.0	50.00	0	91.3	70	125	46.28	1.4	30	
trans-1,3-Dichloropropene	49.96	0.68	5.0	50.00	0	99.9	65	125	49.97	0.0134	30	
1,1,2-Trichloroethane	49.14	0.48	5.0	50.00	0	98.3	60	125	48.58	1.14	30	
1,3-Dichloropropane	47.44	0.87	5.0	50.00	0	94.9	75	125	45.98	3.12	30	
Tetrachloroethene	41.90	0.62	5.0	50.00	0	83.8	65	140	40.94	2.31	30	
2-Hexanone	55.45	0.83	5.0	50.00	0	111	45	145	55.30	0.263	30	
Dibromochloromethane	47.29	0.65	5.0	50.00	0	94.6	65	130	47.15	0.288	30	
1,2-Dibromoethane	48.61	0.74	5.0	50.00	0	97.2	70	125	47.74	1.81	30	
Chlorobenzene	44.68	0.51	5.0	50.00	0	89.4	75	125	43.97	1.6	30	
1,1,1,2-Tetrachloroethane	45.68	0.77	5.0	50.00	0	91.4	75	125	45.22	1.0	30	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

Client: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCSD-84798 **SampType:** LCSD **TestCode:** SW8260_LOW_S **Prep Date:** 06/15/16 11:03 **Run ID:** V1_160615A
Client ID: LCSD-84798 **Batch ID:** 84798 **Units:** ug/Kg **Analysis Date:** 06/15/16 12:34 **SeqNo:** 2379928

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	43.55	0.50	5.0	50.00	0	87.1	75	125	43.69	0.329	30	
m,p-Xylene	86.93	1.6	5.0	100.0	0	86.9	80	125	85.77	1.35	30	
o-Xylene	44.60	0.47	5.0	50.00	0	89.2	75	125	45.47	1.92	30	
Xylene (Total)	131.5	0.47	5.0	150.0	0	87.7	83	125	131.2	0.228	30	
Styrene	45.67	0.52	5.0	50.00	0	91.3	75	125	44.81	1.9	30	
Bromoform	50.37	2.0	5.0	50.00	0	101	55	135	48.12	4.58	30	
Isopropylbenzene	45.30	0.58	5.0	50.00	0	90.6	75	130	45.43	0.285	30	
1,1,2,2-Tetrachloroethane	48.72	0.68	5.0	50.00	0	97.4	55	130	48.78	0.113	30	
Bromobenzene	45.92	0.58	5.0	50.00	0	91.8	65	120	45.46	1.01	30	
1,2,3-Trichloropropane	49.90	0.87	5.0	50.00	0	99.8	65	130	48.78	2.26	30	
n-Propylbenzene	44.52	0.44	5.0	50.00	0	89.0	65	135	45.89	3.02	30	
2-Chlorotoluene	44.56	0.74	5.0	50.00	0	89.1	70	130	44.71	0.328	30	
1,3,5-Trimethylbenzene	44.72	0.61	5.0	50.00	0	89.4	65	135	45.61	1.98	30	
4-Chlorotoluene	45.09	0.84	5.0	50.00	0	90.2	75	125	45.93	1.85	30	
tert-Butylbenzene	45.34	0.52	5.0	50.00	0	90.7	65	130	46.87	3.33	30	
1,2,4-Trimethylbenzene	45.41	0.57	5.0	50.00	0	90.8	65	135	46.35	2.06	30	
sec-Butylbenzene	43.77	0.62	5.0	50.00	0	87.5	65	130	45.93	4.8	30	
4-Isopropyltoluene	44.78	0.71	5.0	50.00	0	89.6	75	135	46.65	4.08	30	
1,3-Dichlorobenzene	44.83	0.70	5.0	50.00	0	89.7	70	125	45.93	2.43	30	
1,4-Dichlorobenzene	44.57	0.80	5.0	50.00	0	89.1	70	125	45.27	1.57	30	
n-Butylbenzene	44.01	0.67	5.0	50.00	0	88.0	65	140	47.22	7.05	30	
1,2-Dichlorobenzene	45.10	0.62	5.0	50.00	0	90.2	75	120	46.35	2.72	30	
1,2-Dibromo-3-chloropropane	56.05	1.3	5.0	50.00	0	112	40	135	56.74	1.23	30	
1,2,4-Trichlorobenzene	48.11	0.63	5.0	50.00	0	96.2	65	130	50.49	4.82	30	
Hexachlorobutadiene	39.52	0.62	5.0	50.00	0	79.0	55	140	45.01	13	30	
1,2,3-Trichlorobenzene	47.91	0.64	5.0	50.00	0	95.8	60	135	50.73	5.72	30	
Naphthalene	53.29	0.78	5.0	50.00	0	107	40	125	53.51	0.401	30	
1,4-Dioxane	1344	61	100	1000	0	134	70	130	1094	20.5	30	S
Diethyl ether	50.23	1.3	5.0	50.00	0	100	70	130	50.46	0.444	30	
Diisopropyl ether	47.57	0.61	5.0	50.00	0	95.1	70	130	47.24	0.692	30	
Ethyl tert-butyl ether	49.42	0.85	5.0	50.00	0	98.8	70	130	49.19	0.478	30	
tert-Amyl Methyl ether	49.69	1.1	5.0	50.00	0	99.4	70	130	49.29	0.809	30	
Tetrahydrofuran	107.2	4.6	10	100.0	0	107	70	130	109.5	2.15	30	
Surrogate:	50.61	5.0	5.0	50.00	0	101	76	128	0	0	30	
Dibromofluoromethane	54.72	5.0	5.0	50.00	0	109	88	110	0	0	30	
Surrogate: 1,2-Dichloroethane-d4	48.92	5.0	5.0	50.00	0	97.8	85	115	0	0	30	
Surrogate: Toluene-d8												

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID	LCSD-84798	SampType:	LCSD	TestCode:	SW8260_LOW_S	Prep Date:	06/15/16 11:03	Run ID:	V1_160615A				
Client ID:	LCSD-84798	Batch ID:	84798	Units:	ug/Kg	Analysis Date:	06/15/16 12:34	SeqNo:	2379928				
Analyte		Result	MDL	RL		SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate:	Bromofluorobenzene	51.24		5.0		50.00	102	85	120	0	0	30	

Client: Nobis Engineering, Inc
Client Sample ID: MS-02-0203
Lab ID: R0530-02

Project: Lawrence, MA site
Collection Date: 06/10/2016 8:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	470		360	ug/Kg		1 06/23/2016 20:48	84857
2-Methylnaphthalene	360	J	360	ug/Kg		1 06/23/2016 20:48	84857
Acenaphthylene	370		360	ug/Kg		1 06/23/2016 20:48	84857
Acenaphthene	1800		360	ug/Kg		1 06/23/2016 20:48	84857
Fluorene	2500		360	ug/Kg		1 06/23/2016 20:48	84857
Phenanthrene	16000	E	360	ug/Kg		1 06/23/2016 20:48	84857
Anthracene	6200	E	360	ug/Kg		1 06/23/2016 20:48	84857
Fluoranthene	21000	E	360	ug/Kg		1 06/23/2016 20:48	84857
Pyrene	19000	E	360	ug/Kg		1 06/23/2016 20:48	84857
Benzo(a)anthracene	11000	E	360	ug/Kg		1 06/23/2016 20:48	84857
Chrysene	9600	E	360	ug/Kg		1 06/23/2016 20:48	84857
Benzo(b)fluoranthene	16000	E	360	ug/Kg		1 06/23/2016 20:48	84857
Benzo(k)fluoranthene	4000		360	ug/Kg		1 06/23/2016 20:48	84857
Benzo(a)pyrene	11000	E	360	ug/Kg		1 06/23/2016 20:48	84857
Indeno(1,2,3-cd)pyrene	8600	E	360	ug/Kg		1 06/23/2016 20:48	84857
Dibenzo(a,h)anthracene	1800		360	ug/Kg		1 06/23/2016 20:48	84857
Benzo(g,h,i)perylene	8400	E	360	ug/Kg		1 06/23/2016 20:48	84857
Surrogate: Nitrobenzene-d5	58.2		35-100	%REC		1 06/23/2016 20:48	84857
Surrogate: 2-Fluorobiphenyl	59.5		45-105	%REC		1 06/23/2016 20:48	84857
Surrogate: Terphenyl-d14	61.1		30-125	%REC		1 06/23/2016 20:48	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: MS-02-0203

Lab ID: R0530-02

Project: Lawrence, MA site

Collection Date: 06/10/2016 8:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	ND		3600	ug/Kg		10/06/24/2016 10:29	84857
2-Methylnaphthalene	ND		3600	ug/Kg		10/06/24/2016 10:29	84857
Acenaphthylene	ND		3600	ug/Kg		10/06/24/2016 10:29	84857
Acenaphthene	1800	J	3600	ug/Kg		10/06/24/2016 10:29	84857
Fluorene	2700	J	3600	ug/Kg		10/06/24/2016 10:29	84857
Phenanthrene	22000		3600	ug/Kg		10/06/24/2016 10:29	84857
Anthracene	6800		3600	ug/Kg		10/06/24/2016 10:29	84857
Fluoranthene	30000		3600	ug/Kg		10/06/24/2016 10:29	84857
Pyrene	20000		3600	ug/Kg		10/06/24/2016 10:29	84857
Benzo(a)anthracene	12000		3600	ug/Kg		10/06/24/2016 10:29	84857
Chrysene	11000		3600	ug/Kg		10/06/24/2016 10:29	84857
Benzo(b)fluoranthene	15000		3600	ug/Kg		10/06/24/2016 10:29	84857
Benzo(k)fluoranthene	5500		3600	ug/Kg		10/06/24/2016 10:29	84857
Benzo(a)pyrene	12000		3600	ug/Kg		10/06/24/2016 10:29	84857
Indeno(1,2,3-cd)pyrene	8200		3600	ug/Kg		10/06/24/2016 10:29	84857
Dibenzo(a,h)anthracene	2100	J	3600	ug/Kg		10/06/24/2016 10:29	84857
Benzo(g,h,i)perylene	7200		3600	ug/Kg		10/06/24/2016 10:29	84857
Surrogate: Nitrobenzene-d5	56.4		35-100	%REC		10/06/24/2016 10:29	84857
Surrogate: 2-Fluorobiphenyl	60.1		45-105	%REC		10/06/24/2016 10:29	84857
Surrogate: Terphenyl-d14	53.1		30-125	%REC		10/06/24/2016 10:29	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-07-0.502

Lab ID: R0530-03

Project: Lawrence, MA site

Collection Date: 06/10/2016 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	ND		360	ug/Kg		1 06/23/2016 21:22	84857
2-Methylnaphthalene	ND		360	ug/Kg		1 06/23/2016 21:22	84857
Acenaphthylene	230	J	360	ug/Kg		1 06/23/2016 21:22	84857
Acenaphthene	110	J	360	ug/Kg		1 06/23/2016 21:22	84857
Fluorene	150	J	360	ug/Kg		1 06/23/2016 21:22	84857
Phenanthrene	1800		360	ug/Kg		1 06/23/2016 21:22	84857
Anthracene	480		360	ug/Kg		1 06/23/2016 21:22	84857
Fluoranthene	2800		360	ug/Kg		1 06/23/2016 21:22	84857
Pyrene	2400		360	ug/Kg		1 06/23/2016 21:22	84857
Benzo(a)anthracene	1400		360	ug/Kg		1 06/23/2016 21:22	84857
Chrysene	1400		360	ug/Kg		1 06/23/2016 21:22	84857
Benzo(b)fluoranthene	1900		360	ug/Kg		1 06/23/2016 21:22	84857
Benzo(k)fluoranthene	900		360	ug/Kg		1 06/23/2016 21:22	84857
Benzo(a)pyrene	1500		360	ug/Kg		1 06/23/2016 21:22	84857
Indeno(1,2,3-cd)pyrene	990		360	ug/Kg		1 06/23/2016 21:22	84857
Dibenzo(a,h)anthracene	280	J	360	ug/Kg		1 06/23/2016 21:22	84857
Benzo(g,h,i)perylene	1100		360	ug/Kg		1 06/23/2016 21:22	84857
Surrogate: Nitrobenzene-d5	26.5	S	35-100	%REC		1 06/23/2016 21:22	84857
Surrogate: 2-Fluorobiphenyl	28.2	S	45-105	%REC		1 06/23/2016 21:22	84857
Surrogate: Terphenyl-d14	28.0	S	30-125	%REC		1 06/23/2016 21:22	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-07-0.502

Lab ID: R0530-03

Project: Lawrence, MA site

Collection Date: 06/10/2016 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	960	J	1800	ug/Kg		5/06/28/2016 12:48	84895
2-Methylnaphthalene	430	J	1800	ug/Kg		5/06/28/2016 12:48	84895
Acenaphthylene	ND		1800	ug/Kg		5/06/28/2016 12:48	84895
Acenaphthene	1200	J	1800	ug/Kg		5/06/28/2016 12:48	84895
Fluorene	1400	J	1800	ug/Kg		5/06/28/2016 12:48	84895
Phenanthrene	16000		1800	ug/Kg		5/06/28/2016 12:48	84895
Anthracene	3100		1800	ug/Kg		5/06/28/2016 12:48	84895
Fluoranthene	15000		1800	ug/Kg		5/06/28/2016 12:48	84895
Pyrene	9300		1800	ug/Kg		5/06/28/2016 12:48	84895
Benzo(a)anthracene	5500		1800	ug/Kg		5/06/28/2016 12:48	84895
Chrysene	5300		1800	ug/Kg		5/06/28/2016 12:48	84895
Benzo(b)fluoranthene	6200		1800	ug/Kg		5/06/28/2016 12:48	84895
Benzo(k)fluoranthene	2400		1800	ug/Kg		5/06/28/2016 12:48	84895
Benzo(a)pyrene	4600		1800	ug/Kg		5/06/28/2016 12:48	84895
Indeno(1,2,3-cd)pyrene	2800		1800	ug/Kg		5/06/28/2016 12:48	84895
Dibenzo(a,h)anthracene	800	J	1800	ug/Kg		5/06/28/2016 12:48	84895
Benzo(g,h,i)perylene	2300		1800	ug/Kg		5/06/28/2016 12:48	84895
Surrogate: Nitrobenzene-d5	18.3	S	35-100	%REC		5/06/28/2016 12:48	84895
Surrogate: 2-Fluorobiphenyl	22.6	S	45-105	%REC		5/06/28/2016 12:48	84895
Surrogate: Terphenyl-d14	19.4	S	30-125	%REC		5/06/28/2016 12:48	84895

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: MS-01-0203

Lab ID: R0530-08

Project: Lawrence, MA site

Collection Date: 06/10/2016 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	200	J	380	ug/Kg		106/23/2016 21:46	84857
2-Methylnaphthalene	120	J	380	ug/Kg		106/23/2016 21:46	84857
Acenaphthylene	210	J	380	ug/Kg		106/23/2016 21:46	84857
Acenaphthene	520		380	ug/Kg		106/23/2016 21:46	84857
Fluorene	670		380	ug/Kg		106/23/2016 21:46	84857
Phenanthrene	5700		380	ug/Kg		106/23/2016 21:46	84857
Anthracene	1700		380	ug/Kg		106/23/2016 21:46	84857
Fluoranthene	7000	E	380	ug/Kg		106/23/2016 21:46	84857
Pyrene	5800		380	ug/Kg		106/23/2016 21:46	84857
Benzo(a)anthracene	3600		380	ug/Kg		106/23/2016 21:46	84857
Chrysene	3300		380	ug/Kg		106/23/2016 21:46	84857
Benzo(b)fluoranthene	4600		380	ug/Kg		106/23/2016 21:46	84857
Benzo(k)fluoranthene	1800		380	ug/Kg		106/23/2016 21:46	84857
Benzo(a)pyrene	3400		380	ug/Kg		106/23/2016 21:46	84857
Indeno(1,2,3-cd)pyrene	2100		380	ug/Kg		106/23/2016 21:46	84857
Dibenzo(a,h)anthracene	530		380	ug/Kg		106/23/2016 21:46	84857
Benzo(g,h,i)perylene	2000		380	ug/Kg		106/23/2016 21:46	84857
Surrogate: Nitrobenzene-d5	59.1		35-100	%REC		106/23/2016 21:46	84857
Surrogate: 2-Fluorobiphenyl	60.4		45-105	%REC		106/23/2016 21:46	84857
Surrogate: Terphenyl-d14	58.0		30-125	%REC		106/23/2016 21:46	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: MS-01-0203

Lab ID: R0530-08

Project: Lawrence, MA site

Collection Date: 06/10/2016 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	ND		1500	ug/Kg		4/06/24/2016 10:52	84857
2-Methylnaphthalene	ND		1500	ug/Kg		4/06/24/2016 10:52	84857
Acenaphthylene	ND		1500	ug/Kg		4/06/24/2016 10:52	84857
Acenaphthene	510	J	1500	ug/Kg		4/06/24/2016 10:52	84857
Fluorene	660	J	1500	ug/Kg		4/06/24/2016 10:52	84857
Phenanthrene	6100		1500	ug/Kg		4/06/24/2016 10:52	84857
Anthracene	1700		1500	ug/Kg		4/06/24/2016 10:52	84857
Fluoranthene	8500		1500	ug/Kg		4/06/24/2016 10:52	84857
Pyrene	6000		1500	ug/Kg		4/06/24/2016 10:52	84857
Benzo(a)anthracene	3600		1500	ug/Kg		4/06/24/2016 10:52	84857
Chrysene	3500		1500	ug/Kg		4/06/24/2016 10:52	84857
Benzo(b)fluoranthene	4000		1500	ug/Kg		4/06/24/2016 10:52	84857
Benzo(k)fluoranthene	1900		1500	ug/Kg		4/06/24/2016 10:52	84857
Benzo(a)pyrene	3300		1500	ug/Kg		4/06/24/2016 10:52	84857
Indeno(1,2,3-cd)pyrene	2400		1500	ug/Kg		4/06/24/2016 10:52	84857
Dibenzo(a,h)anthracene	620	J	1500	ug/Kg		4/06/24/2016 10:52	84857
Benzo(g,h,i)perylene	2100		1500	ug/Kg		4/06/24/2016 10:52	84857
Surrogate: Nitrobenzene-d5	56.1		35-100	%REC		4/06/24/2016 10:52	84857
Surrogate: 2-Fluorobiphenyl	59.4		45-105	%REC		4/06/24/2016 10:52	84857
Surrogate: Terphenyl-d14	57.3		30-125	%REC		4/06/24/2016 10:52	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-06-0.502
Lab ID: R0530-10

Project: Lawrence, MA site
Collection Date: 06/10/2016 10:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	39000	J	71000	ug/Kg		200 06/24/2016 14:14	84857
2-Methylnaphthalene	24000	J	71000	ug/Kg		200 06/24/2016 14:14	84857
Acenaphthylene	ND		71000	ug/Kg		200 06/24/2016 14:14	84857
Acenaphthene	59000	J	71000	ug/Kg		200 06/24/2016 14:14	84857
Fluorene	68000	J	71000	ug/Kg		200 06/24/2016 14:14	84857
Phenanthrene	660000		71000	ug/Kg		200 06/24/2016 14:14	84857
Anthracene	160000		71000	ug/Kg		200 06/24/2016 14:14	84857
Fluoranthene	750000		71000	ug/Kg		200 06/24/2016 14:14	84857
Pyrene	480000		71000	ug/Kg		200 06/24/2016 14:14	84857
Benzo(a)anthracene	280000		71000	ug/Kg		200 06/24/2016 14:14	84857
Chrysene	250000		71000	ug/Kg		200 06/24/2016 14:14	84857
Benzo(b)fluoranthene	330000		71000	ug/Kg		200 06/24/2016 14:14	84857
Benzo(k)fluoranthene	130000		71000	ug/Kg		200 06/24/2016 14:14	84857
Benzo(a)pyrene	250000		71000	ug/Kg		200 06/24/2016 14:14	84857
Indeno(1,2,3-cd)pyrene	130000		71000	ug/Kg		200 06/24/2016 14:14	84857
Dibenzo(a,h)anthracene	36000	J	71000	ug/Kg		200 06/24/2016 14:14	84857
Benzo(g,h,i)perylene	110000		71000	ug/Kg		200 06/24/2016 14:14	84857
Surrogate: Nitrobenzene-d5	0	S	35-100	%REC		200 06/24/2016 14:14	84857
Surrogate: 2-Fluorobiphenyl	0	S	45-105	%REC		200 06/24/2016 14:14	84857
Surrogate: Terphenyl-d14	0	S	30-125	%REC		200 06/24/2016 14:14	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-05-0.502

Lab ID: R0530-12

Project: Lawrence, MA site

Collection Date: 06/10/2016 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	2100		370	ug/Kg		1 06/23/2016 22:52	84857
2-Methylnaphthalene	1200		370	ug/Kg		1 06/23/2016 22:52	84857
Acenaphthylene	830		370	ug/Kg		1 06/23/2016 22:52	84857
Acenaphthene	5900		370	ug/Kg		1 06/23/2016 22:52	84857
Fluorene	7100	E	370	ug/Kg		1 06/23/2016 22:52	84857
Phenanthrene	40000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Anthracene	13000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Fluoranthene	43000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Pyrene	42000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Benzo(a)anthracene	32000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Chrysene	22000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Benzo(b)fluoranthene	37000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Benzo(k)fluoranthene	5900		370	ug/Kg		1 06/23/2016 22:52	84857
Benzo(a)pyrene	15000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Indeno(1,2,3-cd)pyrene	16000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Dibenzo(a,h)anthracene	4400		370	ug/Kg		1 06/23/2016 22:52	84857
Benzo(g,h,i)perylene	14000	E	370	ug/Kg		1 06/23/2016 22:52	84857
Surrogate: Nitrobenzene-d5	51.0		35-100	%REC		1 06/23/2016 22:52	84857
Surrogate: 2-Fluorobiphenyl	52.5		45-105	%REC		1 06/23/2016 22:52	84857
Surrogate: Terphenyl-d14	69.1		30-125	%REC		1 06/23/2016 22:52	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-05-0.502

Lab ID: R0530-12

Project: Lawrence, MA site

Collection Date: 06/10/2016 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	2000	J	7300	ug/Kg		20 06/24/2016 11:55	84857
2-Methylnaphthalene	ND		7300	ug/Kg		20 06/24/2016 11:55	84857
Acenaphthylene	ND		7300	ug/Kg		20 06/24/2016 11:55	84857
Acenaphthene	5800	J	7300	ug/Kg		20 06/24/2016 11:55	84857
Fluorene	7200	J	7300	ug/Kg		20 06/24/2016 11:55	84857
Phenanthrene	58000		7300	ug/Kg		20 06/24/2016 11:55	84857
Anthracene	15000		7300	ug/Kg		20 06/24/2016 11:55	84857
Fluoranthene	68000		7300	ug/Kg		20 06/24/2016 11:55	84857
Pyrene	46000		7300	ug/Kg		20 06/24/2016 11:55	84857
Benzo(a)anthracene	29000		7300	ug/Kg		20 06/24/2016 11:55	84857
Chrysene	28000		7300	ug/Kg		20 06/24/2016 11:55	84857
Benzo(b)fluoranthene	32000		7300	ug/Kg		20 06/24/2016 11:55	84857
Benzo(k)fluoranthene	13000		7300	ug/Kg		20 06/24/2016 11:55	84857
Benzo(a)pyrene	24000		7300	ug/Kg		20 06/24/2016 11:55	84857
Indeno(1,2,3-cd)pyrene	15000		7300	ug/Kg		20 06/24/2016 11:55	84857
Dibenzo(a,h)anthracene	4400	J	7300	ug/Kg		20 06/24/2016 11:55	84857
Benzo(g,h,i)perylene	12000		7300	ug/Kg		20 06/24/2016 11:55	84857
Surrogate: Nitrobenzene-d5	44.1		35-100	%REC		20 06/24/2016 11:55	84857
Surrogate: 2-Fluorobiphenyl	47.3		45-105	%REC		20 06/24/2016 11:55	84857
Surrogate: Terphenyl-d14	45.9		30-125	%REC		20 06/24/2016 11:55	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-04-0203

Lab ID: R0530-15

Project: Lawrence, MA site

Collection Date: 06/10/2016 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	760		360	ug/Kg		1 06/23/2016 23:17	84857
2-Methylnaphthalene	370		360	ug/Kg		1 06/23/2016 23:17	84857
Acenaphthylene	410		360	ug/Kg		1 06/23/2016 23:17	84857
Acenaphthene	1400		360	ug/Kg		1 06/23/2016 23:17	84857
Fluorene	2100		360	ug/Kg		1 06/23/2016 23:17	84857
Phenanthrene	13000	E	360	ug/Kg		1 06/23/2016 23:17	84857
Anthracene	4900		360	ug/Kg		1 06/23/2016 23:17	84857
Fluoranthene	17000	E	360	ug/Kg		1 06/23/2016 23:17	84857
Pyrene	16000	E	360	ug/Kg		1 06/23/2016 23:17	84857
Benzo(a)anthracene	11000	E	360	ug/Kg		1 06/23/2016 23:17	84857
Chrysene	9400	E	360	ug/Kg		1 06/23/2016 23:17	84857
Benzo(b)fluoranthene	12000	E	360	ug/Kg		1 06/23/2016 23:17	84857
Benzo(k)fluoranthene	4800		360	ug/Kg		1 06/23/2016 23:17	84857
Benzo(a)pyrene	6100	E	360	ug/Kg		1 06/23/2016 23:17	84857
Indeno(1,2,3-cd)pyrene	6700	E	360	ug/Kg		1 06/23/2016 23:17	84857
Dibenzo(a,h)anthracene	1700		360	ug/Kg		1 06/23/2016 23:17	84857
Benzo(g,h,i)perylene	6200	E	360	ug/Kg		1 06/23/2016 23:17	84857
Surrogate: Nitrobenzene-d5	38.4		35-100	%REC		1 06/23/2016 23:17	84857
Surrogate: 2-Fluorobiphenyl	43.7	S	45-105	%REC		1 06/23/2016 23:17	84857
Surrogate: Terphenyl-d14	52.2		30-125	%REC		1 06/23/2016 23:17	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-04-0203

Lab ID: R0530-15

Project: Lawrence, MA site

Collection Date: 06/10/2016 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	ND		3600	ug/Kg		10/06/24/2016 12:18	84857
2-Methylnaphthalene	ND		3600	ug/Kg		10/06/24/2016 12:18	84857
Acenaphthylene	ND		3600	ug/Kg		10/06/24/2016 12:18	84857
Acenaphthene	1300	J	3600	ug/Kg		10/06/24/2016 12:18	84857
Fluorene	2000	J	3600	ug/Kg		10/06/24/2016 12:18	84857
Phenanthrene	15000		3600	ug/Kg		10/06/24/2016 12:18	84857
Anthracene	4800		3600	ug/Kg		10/06/24/2016 12:18	84857
Fluoranthene	23000		3600	ug/Kg		10/06/24/2016 12:18	84857
Pyrene	15000		3600	ug/Kg		10/06/24/2016 12:18	84857
Benzo(a)anthracene	11000		3600	ug/Kg		10/06/24/2016 12:18	84857
Chrysene	10000		3600	ug/Kg		10/06/24/2016 12:18	84857
Benzo(b)fluoranthene	12000		3600	ug/Kg		10/06/24/2016 12:18	84857
Benzo(k)fluoranthene	5500		3600	ug/Kg		10/06/24/2016 12:18	84857
Benzo(a)pyrene	10000		3600	ug/Kg		10/06/24/2016 12:18	84857
Indeno(1,2,3-cd)pyrene	5400		3600	ug/Kg		10/06/24/2016 12:18	84857
Dibenzo(a,h)anthracene	1700	J	3600	ug/Kg		10/06/24/2016 12:18	84857
Benzo(g,h,i)perylene	4900		3600	ug/Kg		10/06/24/2016 12:18	84857
Surrogate: Nitrobenzene-d5	33.7	S	35-100	%REC		10/06/24/2016 12:18	84857
Surrogate: 2-Fluorobiphenyl	38.8	S	45-105	%REC		10/06/24/2016 12:18	84857
Surrogate: Terphenyl-d14	37.3		30-125	%REC		10/06/24/2016 12:18	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-03-0.502
Lab ID: R0530-16

Project: Lawrence, MA site
Collection Date: 06/10/2016 10:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	ND		35000	ug/Kg		100 06/24/2016 14:44	84857
2-Methylnaphthalene	ND		35000	ug/Kg		100 06/24/2016 14:44	84857
Acenaphthylene	ND		35000	ug/Kg		100 06/24/2016 14:44	84857
Acenaphthene	25000	J	35000	ug/Kg		100 06/24/2016 14:44	84857
Fluorene	27000	J	35000	ug/Kg		100 06/24/2016 14:44	84857
Phenanthrene	230000		35000	ug/Kg		100 06/24/2016 14:44	84857
Anthracene	58000		35000	ug/Kg		100 06/24/2016 14:44	84857
Fluoranthene	280000		35000	ug/Kg		100 06/24/2016 14:44	84857
Pyrene	200000		35000	ug/Kg		100 06/24/2016 14:44	84857
Benzo(a)anthracene	120000		35000	ug/Kg		100 06/24/2016 14:44	84857
Chrysene	120000		35000	ug/Kg		100 06/24/2016 14:44	84857
Benzo(b)fluoranthene	130000		35000	ug/Kg		100 06/24/2016 14:44	84857
Benzo(k)fluoranthene	61000		35000	ug/Kg		100 06/24/2016 14:44	84857
Benzo(a)pyrene	100000		35000	ug/Kg		100 06/24/2016 14:44	84857
Indeno(1,2,3-cd)pyrene	51000		35000	ug/Kg		100 06/24/2016 14:44	84857
Dibenzo(a,h)anthracene	16000	J	35000	ug/Kg		100 06/24/2016 14:44	84857
Benzo(g,h,i)perylene	44000		35000	ug/Kg		100 06/24/2016 14:44	84857
Surrogate: Nitrobenzene-d5	0	S	35-100	%REC		100 06/24/2016 14:44	84857
Surrogate: 2-Fluorobiphenyl	0	S	45-105	%REC		100 06/24/2016 14:44	84857
Surrogate: Terphenyl-d14	0	S	30-125	%REC		100 06/24/2016 14:44	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-01-0.502

Lab ID: R0530-18

Project: Lawrence, MA site

Collection Date: 06/10/2016 10:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	ND		360	ug/Kg		106/24/2016 0:12	84857
2-Methylnaphthalene	ND		360	ug/Kg		106/24/2016 0:12	84857
Acenaphthylene	330	J	360	ug/Kg		106/24/2016 0:12	84857
Acenaphthene	140	J	360	ug/Kg		106/24/2016 0:12	84857
Fluorene	190	J	360	ug/Kg		106/24/2016 0:12	84857
Phenanthrene	1800		360	ug/Kg		106/24/2016 0:12	84857
Anthracene	560		360	ug/Kg		106/24/2016 0:12	84857
Fluoranthene	2900		360	ug/Kg		106/24/2016 0:12	84857
Pyrene	2800		360	ug/Kg		106/24/2016 0:12	84857
Benzo(a)anthracene	1400		360	ug/Kg		106/24/2016 0:12	84857
Chrysene	1400		360	ug/Kg		106/24/2016 0:12	84857
Benzo(b)fluoranthene	1900		360	ug/Kg		106/24/2016 0:12	84857
Benzo(k)fluoranthene	740		360	ug/Kg		106/24/2016 0:12	84857
Benzo(a)pyrene	1600		360	ug/Kg		106/24/2016 0:12	84857
Indeno(1,2,3-cd)pyrene	1200		360	ug/Kg		106/24/2016 0:12	84857
Dibenzo(a,h)anthracene	270	J	360	ug/Kg		106/24/2016 0:12	84857
Benzo(g,h,i)perylene	1200		360	ug/Kg		106/24/2016 0:12	84857
Surrogate: Nitrobenzene-d5	26.1	S	35-100	%REC		106/24/2016 0:12	84857
Surrogate: 2-Fluorobiphenyl	29.9	S	45-105	%REC		106/24/2016 0:12	84857
Surrogate: Terphenyl-d14	32.9		30-125	%REC		106/24/2016 0:12	84857

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-01-0.502

Lab ID: R0530-18

Project: Lawrence, MA site

Collection Date: 06/10/2016 10:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Naphthalene	ND		1400	ug/Kg		4 06/28/2016 13:18	84895
2-Methylnaphthalene	ND		1400	ug/Kg		4 06/28/2016 13:18	84895
Acenaphthylene	560	J	1400	ug/Kg		4 06/28/2016 13:18	84895
Acenaphthene	370	J	1400	ug/Kg		4 06/28/2016 13:18	84895
Fluorene	410	J	1400	ug/Kg		4 06/28/2016 13:18	84895
Phenanthrene	4300		1400	ug/Kg		4 06/28/2016 13:18	84895
Anthracene	1200	J	1400	ug/Kg		4 06/28/2016 13:18	84895
Fluoranthene	8000		1400	ug/Kg		4 06/28/2016 13:18	84895
Pyrene	4900		1400	ug/Kg		4 06/28/2016 13:18	84895
Benzo(a)anthracene	3400		1400	ug/Kg		4 06/28/2016 13:18	84895
Chrysene	3000		1400	ug/Kg		4 06/28/2016 13:18	84895
Benzo(b)fluoranthene	4400		1400	ug/Kg		4 06/28/2016 13:18	84895
Benzo(k)fluoranthene	1800		1400	ug/Kg		4 06/28/2016 13:18	84895
Benzo(a)pyrene	3300		1400	ug/Kg		4 06/28/2016 13:18	84895
Indeno(1,2,3-cd)pyrene	1900		1400	ug/Kg		4 06/28/2016 13:18	84895
Dibenzo(a,h)anthracene	480	J	1400	ug/Kg		4 06/28/2016 13:18	84895
Benzo(g,h,i)perylene	1700		1400	ug/Kg		4 06/28/2016 13:18	84895
Surrogate: Nitrobenzene-d5	54.9		35-100	%REC		4 06/28/2016 13:18	84895
Surrogate: 2-Fluorobiphenyl	56.9		45-105	%REC		4 06/28/2016 13:18	84895
Surrogate: Terphenyl-d14	50.3		30-125	%REC		4 06/28/2016 13:18	84895

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

Client: Nobis Engineering, Inc
 Work Order: R0530
 Project: Lawrence, MA site

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: MB-84857	SampType: MBLK	TestCode: SW8270_S	Prep Date: 06/22/2016 9:49	Run ID: S3_160623B							
Client ID: MB-84857	Batch ID: 84857	Units: ug/Kg	Analysis Date: 06/23/2016 16:30	SeqNo: 2383499							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	41									
2-Methylnaphthalene	ND	42									
Acenaphthylene	ND	37									
Acenaphthene	ND	39									
Fluorene	ND	33									
Phenanthrene	ND	26									
Anthracene	ND	27									
Fluoranthene	ND	29									
Pyrene	ND	32									
Benzo(a)anthracene	ND	33									
Chrysene	ND	29									
Benzo(b)fluoranthene	ND	40									
Benzo(k)fluoranthene	ND	43									
Benzo(a)pyrene	ND	31									
Indeno(1,2,3-cd)pyrene	ND	37									
Dibenzo(a,h)anthracene	ND	35									
Benzo(g,h,i)perylene	ND	38									
Surrogate: Nitrobenzene-d5	2311		3333	0	69.3	35	100	0			
Surrogate: 2-Fluorobiphenyl	2262		3333	0	67.9	45	105	0			
Surrogate: Terphenyl-d14	2271		3333	0	68.1	30	125	0			

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: LCS-84857 **SampType:** LCS **TestCode:** SW8270_S **Prep Date:** 06/22/2016 9:49 **Run ID:** S3_160623B
Client ID: LCS-84857 **Batch ID:** 84857 **Units:** ug/Kg **Analysis Date:** 06/23/2016 16:55 **SeqNo:** 2383500

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2596	41	330	3333	0	77.9	40	105	0			
2-Methylnaphthalene	2505	42	330	3333	0	75.1	45	105	0			
Acenaphthylene	2534	37	330	3333	0	76.0	45	105	0			
Acenaphthene	2621	39	330	3333	0	78.6	45	110	0			
Fluorene	2697	33	330	3333	0	80.9	50	110	0			
Phenanthrene	2698	26	330	3333	0	80.9	50	110	0			
Anthracene	2683	27	330	3333	0	80.5	55	105	0			
Fluoranthene	2641	29	330	3333	0	79.2	55	115	0			
Pyrene	2623	32	330	3333	0	78.7	45	125	0			
Benzo(a)anthracene	2695	33	330	3333	0	80.8	50	110	0			
Chrysene	2537	29	330	3333	0	76.1	55	110	0			
Benzo(b)fluoranthene	2742	40	330	3333	0	82.3	45	115	0			
Benzo(k)fluoranthene	2868	43	330	3333	0	86.1	45	125	0			
Benzo(a)pyrene	2810	31	330	3333	0	84.3	50	110	0			
Indeno(1,2,3-cd)pyrene	2718	37	330	3333	0	81.5	40	120	0			
Dibenzo(a,h)anthracene	2796	35	330	3333	0	83.9	40	125	0			
Benzo(g,h,i)perylene	2714	38	330	3333	0	81.4	40	125	0			
Surrogate: Nitrobenzene-d5	2643		330	3333	0	79.3	35	100	0			
Surrogate: 2-Fluorobiphenyl	2629		330	3333	0	78.9	45	105	0			
Surrogate: Terphenyl-d14	2681		330	3333	0	80.4	30	125	0			

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: LCSD-84857 **SampType:** LCSD **TestCode:** SW8270_S **Prep Date:** 06/22/2016 9:49 **Run ID:** S3_160623B
Client ID: LCSD-84857 **Batch ID:** 84857 **Units:** ug/Kg **Analysis Date:** 06/23/2016 17:25 **SeqNo:** 2383501

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2277	41	330	3333	0	68.3	40	105	2596	13.1	30	
2-Methylnaphthalene	2203	42	330	3333	0	66.1	45	105	2505	12.8	30	
Acenaphthylene	2295	37	330	3333	0	68.9	45	105	2534	9.89	30	
Acenaphthene	2326	39	330	3333	0	69.8	45	110	2621	11.9	30	
Fluorene	2430	33	330	3333	0	72.9	50	110	2697	10.4	30	
Phenanthrene	2571	26	330	3333	0	77.1	50	110	2698	4.82	30	
Anthracene	2466	27	330	3333	0	74.0	55	105	2683	8.43	30	
Fluoranthene	2497	29	330	3333	0	74.9	55	115	2641	5.62	30	
Pyrene	2536	32	330	3333	0	76.1	45	125	2623	3.41	30	
Benzo(a)anthracene	2520	33	330	3333	0	75.6	50	110	2695	6.68	30	
Chrysene	2513	29	330	3333	0	75.4	55	110	2537	0.96	30	
Benzo(b)fluoranthene	2613	40	330	3333	0	78.4	45	115	2742	4.84	30	
Benzo(k)fluoranthene	2758	43	330	3333	0	82.7	45	125	2868	3.93	30	
Benzo(a)pyrene	2646	31	330	3333	0	79.4	50	110	2810	6.03	30	
Indeno(1,2,3-cd)pyrene	2506	37	330	3333	0	75.2	40	120	2718	8.12	30	
Dibenzo(a,h)anthracene	2545	35	330	3333	0	76.4	40	125	2796	9.39	30	
Benzo(g,h,i)perylene	2546	38	330	3333	0	76.4	40	125	2714	6.38	30	
Surrogate: Nitrobenzene-d5	2268		330	3333	0	68.0	35	100	0	0		
Surrogate: 2-Fluorobiphenyl	2311		330	3333	0	69.3	45	105	0	0		
Surrogate: Terphenyl-d14	2452		330	3333	0	73.6	30	125	0	0		

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: MS-02-0102

Lab ID: R0530-01

Project: Lawrence, MA site

Collection Date: 06/10/16 08:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	6900 ug/Kg	200 06/27/2016 20:07	84794
Aroclor-1221	ND	6900 ug/Kg	200 06/27/2016 20:07	84794
Aroclor-1232	ND	6900 ug/Kg	200 06/27/2016 20:07	84794
Aroclor-1242	ND	6900 ug/Kg	200 06/27/2016 20:07	84794
Aroclor-1248	13000	6900 ug/Kg	200 06/27/2016 20:07	84794
Aroclor-1254	ND	6900 ug/Kg	200 06/27/2016 20:07	84794
Aroclor-1260	3400 J	6900 ug/Kg	200 06/27/2016 20:07	84794
Aroclor-1262	ND	6900 ug/Kg	200 06/27/2016 20:07	84794
Aroclor-1268	ND	6900 ug/Kg	200 06/27/2016 20:07	84794
Surrogate: Tetrachloro-m-xylene	0 S	34-147 %REC	200 06/27/2016 20:07	84794
Surrogate: Decachlorobiphenyl	0 S	60-125 %REC	200 06/27/2016 20:07	84794

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: MS-02-0203

Lab ID: R0530-02

Project: Lawrence, MA site

Collection Date: 06/10/16 08:05

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	360 ug/Kg	10/06/27/2016 20:23	84794
Aroclor-1221	ND	360 ug/Kg	10/06/27/2016 20:23	84794
Aroclor-1232	ND	360 ug/Kg	10/06/27/2016 20:23	84794
Aroclor-1242	ND	360 ug/Kg	10/06/27/2016 20:23	84794
Aroclor-1248	1300	360 ug/Kg	10/06/27/2016 20:23	84794
Aroclor-1254	ND	360 ug/Kg	10/06/27/2016 20:23	84794
Aroclor-1260	3300	360 ug/Kg	10/06/27/2016 20:23	84794
Aroclor-1262	ND	360 ug/Kg	10/06/27/2016 20:23	84794
Aroclor-1268	ND	360 ug/Kg	10/06/27/2016 20:23	84794
Surrogate: Tetrachloro-m-xylene	12.9 S	34-147 %REC	10/06/27/2016 20:23	84794
Surrogate: Decachlorobiphenyl	127 S	60-125 %REC	10/06/27/2016 20:23	84794

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-07-0.502

Lab ID: R0530-03

Project: Lawrence, MA site

Collection Date: 06/10/16 08:15

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	360 ug/Kg	10/06/27/2016 20:40	84794
Aroclor-1221	ND	360 ug/Kg	10/06/27/2016 20:40	84794
Aroclor-1232	ND	360 ug/Kg	10/06/27/2016 20:40	84794
Aroclor-1242	ND	360 ug/Kg	10/06/27/2016 20:40	84794
Aroclor-1248	1400	360 ug/Kg	10/06/27/2016 20:40	84794
Aroclor-1254	ND	360 ug/Kg	10/06/27/2016 20:40	84794
Aroclor-1260	ND	360 ug/Kg	10/06/27/2016 20:40	84794
Aroclor-1262	ND	360 ug/Kg	10/06/27/2016 20:40	84794
Aroclor-1268	ND	360 ug/Kg	10/06/27/2016 20:40	84794
Surrogate: Tetrachloro-m-xylene	55.4	34-147 %REC	10/06/27/2016 20:40	84794
Surrogate: Decachlorobiphenyl	97.6	60-125 %REC	10/06/27/2016 20:40	84794

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-07-0203

Lab ID: R0530-04

Project: Lawrence, MA site

Collection Date: 06/10/16 08:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	34 ug/Kg	1 06/23/2016 06:20	84794
Aroclor-1221	ND	34 ug/Kg	1 06/23/2016 06:20	84794
Aroclor-1232	ND	34 ug/Kg	1 06/23/2016 06:20	84794
Aroclor-1242	ND	34 ug/Kg	1 06/23/2016 06:20	84794
Aroclor-1248	ND	34 ug/Kg	1 06/23/2016 06:20	84794
Aroclor-1254	ND	34 ug/Kg	1 06/23/2016 06:20	84794
Aroclor-1260	92	34 ug/Kg	1 06/23/2016 06:20	84794
Aroclor-1262	ND	34 ug/Kg	1 06/23/2016 06:20	84794
Aroclor-1268	ND	34 ug/Kg	1 06/23/2016 06:20	84794
Surrogate: Tetrachloro-m-xylene	53.3	34-147 %REC	1 06/23/2016 06:20	84794
Surrogate: Decachlorobiphenyl	67.0	60-125 %REC	1 06/23/2016 06:20	84794

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: MS-03-0102

Lab ID: R0530-05

Project: Lawrence, MA site

Collection Date: 06/10/16 08:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		35	ug/Kg		1 06/23/2016 06:37	84794
Aroclor-1221	ND		35	ug/Kg		1 06/23/2016 06:37	84794
Aroclor-1232	ND		35	ug/Kg		1 06/23/2016 06:37	84794
Aroclor-1242	ND		35	ug/Kg		1 06/23/2016 06:37	84794
Aroclor-1248	230		35	ug/Kg		1 06/23/2016 06:37	84794
Aroclor-1254	ND		35	ug/Kg		1 06/23/2016 06:37	84794
Aroclor-1260	92		35	ug/Kg		1 06/23/2016 06:37	84794
Aroclor-1262	ND		35	ug/Kg		1 06/23/2016 06:37	84794
Aroclor-1268	ND		35	ug/Kg		1 06/23/2016 06:37	84794
Surrogate: Tetrachloro-m-xylene	54.5		34-147	%REC		1 06/23/2016 06:37	84794
Surrogate: Decachlorobiphenyl	66.2		60-125	%REC		1 06/23/2016 06:37	84794

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: MS-03-0203

Lab ID: R0530-06

Project: Lawrence, MA site

Collection Date: 06/10/16 08:50

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	36 ug/Kg	1 06/23/2016 06:54	84794
Aroclor-1221	ND	36 ug/Kg	1 06/23/2016 06:54	84794
Aroclor-1232	ND	36 ug/Kg	1 06/23/2016 06:54	84794
Aroclor-1242	ND	36 ug/Kg	1 06/23/2016 06:54	84794
Aroclor-1248	340	36 ug/Kg	1 06/23/2016 06:54	84794
Aroclor-1254	ND	36 ug/Kg	1 06/23/2016 06:54	84794
Aroclor-1260	120	36 ug/Kg	1 06/23/2016 06:54	84794
Aroclor-1262	ND	36 ug/Kg	1 06/23/2016 06:54	84794
Aroclor-1268	ND	36 ug/Kg	1 06/23/2016 06:54	84794
Surrogate: Tetrachloro-m-xylene	59.4	34-147 %REC	1 06/23/2016 06:54	84794
Surrogate: Decachlorobiphenyl	80.4	60-125 %REC	1 06/23/2016 06:54	84794

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: MS-01-0102

Lab ID: R0530-07

Project: Lawrence, MA site

Collection Date: 06/10/16 09:05

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	33 ug/Kg	1 06/23/2016 08:01	84795
Aroclor-1221	ND	33 ug/Kg	1 06/23/2016 08:01	84795
Aroclor-1232	ND	33 ug/Kg	1 06/23/2016 08:01	84795
Aroclor-1242	ND	33 ug/Kg	1 06/23/2016 08:01	84795
Aroclor-1248	29 J	33 ug/Kg	1 06/23/2016 08:01	84795
Aroclor-1254	ND	33 ug/Kg	1 06/23/2016 08:01	84795
Aroclor-1260	38	33 ug/Kg	1 06/23/2016 08:01	84795
Aroclor-1262	ND	33 ug/Kg	1 06/23/2016 08:01	84795
Aroclor-1268	ND	33 ug/Kg	1 06/23/2016 08:01	84795
Surrogate: Tetrachloro-m-xylene	65.2	34-147 %REC	1 06/23/2016 08:01	84795
Surrogate: Decachlorobiphenyl	100	60-125 %REC	1 06/23/2016 08:01	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: MS-01-0203

Lab ID: R0530-08

Project: Lawrence, MA site

Collection Date: 06/10/16 09:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	38 ug/Kg	1 06/23/2016 08:18	84795
Aroclor-1221	ND	38 ug/Kg	1 06/23/2016 08:18	84795
Aroclor-1232	ND	38 ug/Kg	1 06/23/2016 08:18	84795
Aroclor-1242	ND	38 ug/Kg	1 06/23/2016 08:18	84795
Aroclor-1248	230	38 ug/Kg	1 06/23/2016 08:18	84795
Aroclor-1254	ND	38 ug/Kg	1 06/23/2016 08:18	84795
Aroclor-1260	74	38 ug/Kg	1 06/23/2016 08:18	84795
Aroclor-1262	ND	38 ug/Kg	1 06/23/2016 08:18	84795
Aroclor-1268	ND	38 ug/Kg	1 06/23/2016 08:18	84795
Surrogate: Tetrachloro-m-xylene	54.3	34-147 %REC	1 06/23/2016 08:18	84795
Surrogate: Decachlorobiphenyl	87.3	60-125 %REC	1 06/23/2016 08:18	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-06-0.502

Lab ID: R0530-10

Project: Lawrence, MA site

Collection Date: 06/10/16 10:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		370	ug/Kg		10/06/27/2016 20:57	84795
Aroclor-1221	ND		370	ug/Kg		10/06/27/2016 20:57	84795
Aroclor-1232	ND		370	ug/Kg		10/06/27/2016 20:57	84795
Aroclor-1242	ND		370	ug/Kg		10/06/27/2016 20:57	84795
Aroclor-1248	620		370	ug/Kg		10/06/27/2016 20:57	84795
Aroclor-1254	ND		370	ug/Kg		10/06/27/2016 20:57	84795
Aroclor-1260	1500		370	ug/Kg		10/06/27/2016 20:57	84795
Aroclor-1262	ND		370	ug/Kg		10/06/27/2016 20:57	84795
Aroclor-1268	ND		370	ug/Kg		10/06/27/2016 20:57	84795
Surrogate: Tetrachloro-m-xylene	112		34-147	%REC		10/06/27/2016 20:57	84795
Surrogate: Decachlorobiphenyl	260	S	60-125	%REC		10/06/27/2016 20:57	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-06-0203

Lab ID: R0530-11

Project: Lawrence, MA site

Collection Date: 06/10/16 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		38	ug/Kg		1 06/23/2016 08:52	84795
Aroclor-1221	ND		38	ug/Kg		1 06/23/2016 08:52	84795
Aroclor-1232	ND		38	ug/Kg		1 06/23/2016 08:52	84795
Aroclor-1242	ND		38	ug/Kg		1 06/23/2016 08:52	84795
Aroclor-1248	ND		38	ug/Kg		1 06/23/2016 08:52	84795
Aroclor-1254	ND		38	ug/Kg		1 06/23/2016 08:52	84795
Aroclor-1260	ND		38	ug/Kg		1 06/23/2016 08:52	84795
Aroclor-1262	ND		38	ug/Kg		1 06/23/2016 08:52	84795
Aroclor-1268	ND		38	ug/Kg		1 06/23/2016 08:52	84795
Surrogate: Tetrachloro-m-xylene	38.4		34-147	%REC		1 06/23/2016 08:52	84795
Surrogate: Decachlorobiphenyl	45.9	S	60-125	%REC		1 06/23/2016 08:52	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-05-0.502

Lab ID: R0530-12

Project: Lawrence, MA site

Collection Date: 06/10/16 10:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	75 ug/Kg	206/27/2016 21:14	84795
Aroclor-1221	ND	75 ug/Kg	206/27/2016 21:14	84795
Aroclor-1232	ND	75 ug/Kg	206/27/2016 21:14	84795
Aroclor-1242	ND	75 ug/Kg	206/27/2016 21:14	84795
Aroclor-1248	99	75 ug/Kg	206/27/2016 21:14	84795
Aroclor-1254	ND	75 ug/Kg	206/27/2016 21:14	84795
Aroclor-1260	ND	75 ug/Kg	206/27/2016 21:14	84795
Aroclor-1262	ND	75 ug/Kg	206/27/2016 21:14	84795
Aroclor-1268	ND	75 ug/Kg	206/27/2016 21:14	84795
Surrogate: Tetrachloro-m-xylene	52.9	34-147 %REC	206/27/2016 21:14	84795
Surrogate: Decachlorobiphenyl	98.5	60-125 %REC	206/27/2016 21:14	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-05-0203

Lab ID: R0530-13

Project: Lawrence, MA site

Collection Date: 06/10/16 10:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		38	ug/Kg		1 06/23/2016 09:26	84795
Aroclor-1221	ND		38	ug/Kg		1 06/23/2016 09:26	84795
Aroclor-1232	ND		38	ug/Kg		1 06/23/2016 09:26	84795
Aroclor-1242	ND		38	ug/Kg		1 06/23/2016 09:26	84795
Aroclor-1248	ND		38	ug/Kg		1 06/23/2016 09:26	84795
Aroclor-1254	ND		38	ug/Kg		1 06/23/2016 09:26	84795
Aroclor-1260	450		38	ug/Kg		1 06/23/2016 09:26	84795
Aroclor-1262	ND		38	ug/Kg		1 06/23/2016 09:26	84795
Aroclor-1268	ND		38	ug/Kg		1 06/23/2016 09:26	84795
Surrogate: Tetrachloro-m-xylene	46.8		34-147	%REC		1 06/23/2016 09:26	84795
Surrogate: Decachlorobiphenyl	39.3	S	60-125	%REC		1 06/23/2016 09:26	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-04-0.502

Lab ID: R0530-14

Project: Lawrence, MA site

Collection Date: 06/10/16 10:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		35	ug/Kg		1 06/23/2016 09:42	84795
Aroclor-1221	ND		35	ug/Kg		1 06/23/2016 09:42	84795
Aroclor-1232	ND		35	ug/Kg		1 06/23/2016 09:42	84795
Aroclor-1242	ND		35	ug/Kg		1 06/23/2016 09:42	84795
Aroclor-1248	32	J	35	ug/Kg		1 06/23/2016 09:42	84795
Aroclor-1254	ND		35	ug/Kg		1 06/23/2016 09:42	84795
Aroclor-1260	ND		35	ug/Kg		1 06/23/2016 09:42	84795
Aroclor-1262	ND		35	ug/Kg		1 06/23/2016 09:42	84795
Aroclor-1268	ND		35	ug/Kg		1 06/23/2016 09:42	84795
Surrogate: Tetrachloro-m-xylene	45.5		34-147	%REC		1 06/23/2016 09:42	84795
Surrogate: Decachlorobiphenyl	60.0		60-125	%REC		1 06/23/2016 09:42	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-04-0203

Lab ID: R0530-15

Project: Lawrence, MA site

Collection Date: 06/10/16 10:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	36 ug/Kg	1 06/23/2016 09:59	84795
Aroclor-1221	ND	36 ug/Kg	1 06/23/2016 09:59	84795
Aroclor-1232	ND	36 ug/Kg	1 06/23/2016 09:59	84795
Aroclor-1242	ND	36 ug/Kg	1 06/23/2016 09:59	84795
Aroclor-1248	ND	36 ug/Kg	1 06/23/2016 09:59	84795
Aroclor-1254	ND	36 ug/Kg	1 06/23/2016 09:59	84795
Aroclor-1260	26 J	36 ug/Kg	1 06/23/2016 09:59	84795
Aroclor-1262	ND	36 ug/Kg	1 06/23/2016 09:59	84795
Aroclor-1268	ND	36 ug/Kg	1 06/23/2016 09:59	84795
Surrogate: Tetrachloro-m-xylene	51.1	34-147 %REC	1 06/23/2016 09:59	84795
Surrogate: Decachlorobiphenyl	59.7 S	60-125 %REC	1 06/23/2016 09:59	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-03-0.502

Lab ID: R0530-16

Project: Lawrence, MA site

Collection Date: 06/10/16 10:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	350 ug/Kg	10/06/27/2016 21:31	84795
Aroclor-1221	ND	350 ug/Kg	10/06/27/2016 21:31	84795
Aroclor-1232	ND	350 ug/Kg	10/06/27/2016 21:31	84795
Aroclor-1242	ND	350 ug/Kg	10/06/27/2016 21:31	84795
Aroclor-1248	ND	350 ug/Kg	10/06/27/2016 21:31	84795
Aroclor-1254	ND	350 ug/Kg	10/06/27/2016 21:31	84795
Aroclor-1260	250 J	350 ug/Kg	10/06/27/2016 21:31	84795
Aroclor-1262	ND	350 ug/Kg	10/06/27/2016 21:31	84795
Aroclor-1268	ND	350 ug/Kg	10/06/27/2016 21:31	84795
Surrogate: Tetrachloro-m-xylene	191 S	34-147 %REC	10/06/27/2016 21:31	84795
Surrogate: Decachlorobiphenyl	566 S	60-125 %REC	10/06/27/2016 21:31	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-03-0203

Lab ID: R0530-17

Project: Lawrence, MA site

Collection Date: 06/10/16 10:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	37 ug/Kg	1 06/23/2016 10:33	84795
Aroclor-1221	ND	37 ug/Kg	1 06/23/2016 10:33	84795
Aroclor-1232	ND	37 ug/Kg	1 06/23/2016 10:33	84795
Aroclor-1242	ND	37 ug/Kg	1 06/23/2016 10:33	84795
Aroclor-1248	ND	37 ug/Kg	1 06/23/2016 10:33	84795
Aroclor-1254	ND	37 ug/Kg	1 06/23/2016 10:33	84795
Aroclor-1260	ND	37 ug/Kg	1 06/23/2016 10:33	84795
Aroclor-1262	ND	37 ug/Kg	1 06/23/2016 10:33	84795
Aroclor-1268	ND	37 ug/Kg	1 06/23/2016 10:33	84795
Surrogate: Tetrachloro-m-xylene	51.3	34-147 %REC	1 06/23/2016 10:33	84795
Surrogate: Decachlorobiphenyl	63.7	60-125 %REC	1 06/23/2016 10:33	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-01-0.502

Lab ID: R0530-18

Project: Lawrence, MA site

Collection Date: 06/10/16 10:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		71	ug/Kg		206/27/2016 21:48	84795
Aroclor-1221	ND		71	ug/Kg		206/27/2016 21:48	84795
Aroclor-1232	ND		71	ug/Kg		206/27/2016 21:48	84795
Aroclor-1242	ND		71	ug/Kg		206/27/2016 21:48	84795
Aroclor-1248	210		71	ug/Kg		206/27/2016 21:48	84795
Aroclor-1254	ND		71	ug/Kg		206/27/2016 21:48	84795
Aroclor-1260	ND		71	ug/Kg		206/27/2016 21:48	84795
Aroclor-1262	ND		71	ug/Kg		206/27/2016 21:48	84795
Aroclor-1268	ND		71	ug/Kg		206/27/2016 21:48	84795
Surrogate: Tetrachloro-m-xylene	124		34-147	%REC		206/27/2016 21:48	84795
Surrogate: Decachlorobiphenyl	221	S	60-125	%REC		206/27/2016 21:48	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-01-0203

Lab ID: R0530-19

Project: Lawrence, MA site

Collection Date: 06/10/16 11:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	37 ug/Kg	1 06/23/2016 11:07	84795
Aroclor-1221	ND	37 ug/Kg	1 06/23/2016 11:07	84795
Aroclor-1232	ND	37 ug/Kg	1 06/23/2016 11:07	84795
Aroclor-1242	ND	37 ug/Kg	1 06/23/2016 11:07	84795
Aroclor-1248	ND	37 ug/Kg	1 06/23/2016 11:07	84795
Aroclor-1254	ND	37 ug/Kg	1 06/23/2016 11:07	84795
Aroclor-1260	44	37 ug/Kg	1 06/23/2016 11:07	84795
Aroclor-1262	ND	37 ug/Kg	1 06/23/2016 11:07	84795
Aroclor-1268	ND	37 ug/Kg	1 06/23/2016 11:07	84795
Surrogate: Tetrachloro-m-xylene	98.4	34-147 %REC	1 06/23/2016 11:07	84795
Surrogate: Decachlorobiphenyl	93.0	60-125 %REC	1 06/23/2016 11:07	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-02-0.502

Lab ID: R0530-20

Project: Lawrence, MA site

Collection Date: 06/10/16 11:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	37 ug/Kg	1 06/23/2016 11:24	84795
Aroclor-1221	ND	37 ug/Kg	1 06/23/2016 11:24	84795
Aroclor-1232	ND	37 ug/Kg	1 06/23/2016 11:24	84795
Aroclor-1242	ND	37 ug/Kg	1 06/23/2016 11:24	84795
Aroclor-1248	130	37 ug/Kg	1 06/23/2016 11:24	84795
Aroclor-1254	ND	37 ug/Kg	1 06/23/2016 11:24	84795
Aroclor-1260	ND	37 ug/Kg	1 06/23/2016 11:24	84795
Aroclor-1262	ND	37 ug/Kg	1 06/23/2016 11:24	84795
Aroclor-1268	ND	37 ug/Kg	1 06/23/2016 11:24	84795
Surrogate: Tetrachloro-m-xylene	57.8	34-147 %REC	1 06/23/2016 11:24	84795
Surrogate: Decachlorobiphenyl	95.6	60-125 %REC	1 06/23/2016 11:24	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc

Client Sample ID: NPA-02-0203

Lab ID: R0530-21

Project: Lawrence, MA site

Collection Date: 06/10/16 11:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD				SW8082_S
Aroclor-1016	ND	7200 ug/Kg	200 06/27/2016 22:05	84795
Aroclor-1221	ND	7200 ug/Kg	200 06/27/2016 22:05	84795
Aroclor-1232	ND	7200 ug/Kg	200 06/27/2016 22:05	84795
Aroclor-1242	ND	7200 ug/Kg	200 06/27/2016 22:05	84795
Aroclor-1248	7100 J	7200 ug/Kg	200 06/27/2016 22:05	84795
Aroclor-1254	ND	7200 ug/Kg	200 06/27/2016 22:05	84795
Aroclor-1260	ND	7200 ug/Kg	200 06/27/2016 22:05	84795
Aroclor-1262	ND	7200 ug/Kg	200 06/27/2016 22:05	84795
Aroclor-1268	ND	7200 ug/Kg	200 06/27/2016 22:05	84795
Surrogate: Tetrachloro-m-xylene	0 S	34-147 %REC	200 06/27/2016 22:05	84795
Surrogate: Decachlorobiphenyl	93.6	60-125 %REC	200 06/27/2016 22:05	84795

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

Client: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8082_S
SW846 8082A -- PCB by GC-ECD

Sample ID: MB-84794	SampType: MBLK	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E5_160624A								
Client ID: MB-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/25/16 02:34	SeqNo: 2384251								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	ND	2.5	33									
Aroclor-1221	ND	4.4	33									
Aroclor-1232	ND	2.4	33									
Aroclor-1242	ND	2.5	33									
Aroclor-1248	ND	3.8	33									
Aroclor-1254	ND	4.4	33									
Aroclor-1260	ND	1.8	33									
Aroclor-1262	ND	2.0	33									
Aroclor-1268	ND	1.6	33									

Sample ID: MB-84794	SampType: MBLK	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E5_160624B								
Client ID: MB-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/25/16 02:34	SeqNo: 2384308								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	13.84		1.7	20.00	0	69.2	34	1.47			0	
Surrogate: Decachlorobiphenyl	38.49		3.3	40.00	0	96.2	60	1.25			0	

Sample ID: MB-84794	SampType: MBLK	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E6_160627A								
Client ID: MB-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/27/16 19:50	SeqNo: 2384419								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	ND	2.5	33	0	0	0	0	0	0	0	0	
Aroclor-1221	ND	4.4	33	0	0	0	0	0	0	0	0	
Aroclor-1232	ND	2.4	33	0	0	0	0	0	0	0	0	
Aroclor-1242	ND	2.5	33	0	0	0	0	0	0	0	0	
Aroclor-1248	ND	3.8	33	0	0	0	0	0	0	0	0	
Aroclor-1254	ND	4.4	33	0	0	0	0	0	0	0	0	
Aroclor-1260	ND	1.8	33	0	0	0	0	0	0	0	0	
Aroclor-1262	ND	2.0	33	0	0	0	0	0	0	0	0	
Aroclor-1268	ND	1.6	33	0	0	0	0	0	0	0	0	
Surrogate: Tetrachloro-m-xylene	7.625		1.7	20.00	0	38.1	34	1.47			0	

Qualifiers: ND - Not Detected at the MDL
S - Recovery outside accepted recovery limits
MDL - Method Detection Limit
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8082_S
SW846 8082A -- PCB by GC-ECD

Sample ID: MB-84794	SampType: MBLK	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E6_160627B						
Client ID: MB-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/27/16 19:50	SeqNo: 2384440						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Decachlorobiphenyl	25.23	3.3	0	63.1	60	1.25	0		0	

Sample ID: MB-84795	SampType: MBLK	TestCode: SW8082_S	Prep Date: 06/15/16 10:24	Run ID: E6_160622C						
Client ID: MB-84795	Batch ID: 84795	Units: ug/Kg	Analysis Date: 06/23/16 07:11	SeqNo: 2383824						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Atroclor-1016	ND	2.5								
Atroclor-1221	ND	4.4								
Atroclor-1232	ND	2.4								
Atroclor-1242	ND	2.5								
Atroclor-1248	ND	3.8								
Atroclor-1254	ND	4.4								
Atroclor-1260	ND	1.8								
Atroclor-1262	ND	2.0								
Atroclor-1268	ND	1.6								

Sample ID: MB-84795	SampType: MBLK	TestCode: SW8082_S	Prep Date: 06/15/16 10:24	Run ID: E6_160622D						
Client ID: MB-84795	Batch ID: 84795	Units: ug/Kg	Analysis Date: 06/23/16 07:11	SeqNo: 2383841						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	14.38	1.7	0	71.9	34	1.47	0		0	
Surrogate: Decachlorobiphenyl	30.19	3.3	0	75.5	60	1.25	0		0	

Sample ID: LCS-84794	SampType: LCS	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E6_160622C						
Client ID: LCS-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/23/16 04:56	SeqNo: 2383819						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	15.10	1.7	0	75.5	34	1.47	0		0	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8082_S
SW846 8082A -- PCB by GC-ECD

Sample ID: LCS-84794	SampType: LCS	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E6_160622D						
Client ID: LCS-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/23/16 04:56	SeqNo: 2383836						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	126.1	2.5	0	94.6	40	140	0			
Aroclor-1260	106.1	1.8	0	79.6	60	130	0			
Surrogate: Decachlorobiphenyl	41.73	3.3	0	1.04	60	1.25	0			

Sample ID: LCS-84794	SampType: LCS	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E5_160624A						
Client ID: LCS-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/25/16 02:51	SeqNo: 2384252						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	96.79	2.5	0	72.6	40	140	0			
Aroclor-1260	95.04	1.8	0	71.3	60	130	0			
Surrogate: Decachlorobiphenyl	39.11	3.3	0	97.8	60	1.25	0			

Sample ID: LCS-84794	SampType: LCS	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E5_160624B						
Client ID: LCS-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/25/16 02:51	SeqNo: 2384309						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	12.42	1.7	0	62.1	34	147	0			

Sample ID: LCS-84795	SampType: LCS	TestCode: SW8082_S	Prep Date: 06/15/16 10:24	Run ID: E6_160622D						
Client ID: LCS-84795	Batch ID: 84795	Units: ug/Kg	Analysis Date: 06/23/16 07:28	SeqNo: 2383842						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	121.9	2.5	0	91.4	40	140	0			
Aroclor-1260	88.20	1.8	0	66.2	60	130	0			
Surrogate: Tetrachloro-m-xylene	14.61	1.7	0	73.1	34	147	0			
Surrogate: Decachlorobiphenyl	34.58	3.3	0	86.4	60	1.25	0			

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8082_S
SW846 8082A -- PCB by GC-ECD

Sample ID: LCSD-84794	SampType: LCSD	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E6_160622C						
Client ID: LCSD-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/23/16 05:13	SeqNo: 2383820						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	127.4	2.5	0	95.5	40	140	128.0	0.502	30	
Surrogate: Tetrachloro-m-xylene	13.95	1.7	0	69.7	34	147	0			

Sample ID: LCSD-84794	SampType: LCSD	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E6_160622D						
Client ID: LCSD-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/23/16 05:13	SeqNo: 2383837						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1260	104.4	1.8	0	78.3	60	130	106.1	1.59	30	
Surrogate: Decachlorobiphenyl	42.92	3.3	0	1.07	60	125	0			

Sample ID: LCSD-84794	SampType: LCSD	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E5_160624A						
Client ID: LCSD-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/25/16 03:08	SeqNo: 2384253						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	93.04	2.5	0	69.8	40	140	96.79	3.95	30	
Aroclor-1260	91.87	1.8	0	68.9	60	130	95.04	3.39	30	

Sample ID: LCSD-84794	SampType: LCSD	TestCode: SW8082_S	Prep Date: 06/15/16 10:18	Run ID: E5_160624B						
Client ID: LCSD-84794	Batch ID: 84794	Units: ug/Kg	Analysis Date: 06/25/16 03:08	SeqNo: 2384310						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	11.62	1.7	0	58.1	34	147	0			
Surrogate: Decachlorobiphenyl	39.29	3.3	0	98.2	60	125	0			

Sample ID: LCSD-84795	SampType: LCSD	TestCode: SW8082_S	Prep Date: 06/15/16 10:24	Run ID: E6_160622C						
Client ID: LCSD-84795	Batch ID: 84795	Units: ug/Kg	Analysis Date: 06/23/16 07:45	SeqNo: 2383826						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	130.8	2.5	0	98.1	40	140	125.0	4.49	30	
Surrogate: Tetrachloro-m-xylene	14.44	1.7	0	72.2	34	147	0			

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW8082_S
SW846 8082A -- PCB by GC-ECD

Sample ID: LCSD-84795	SampType: LCSD	TestCode: SW8082_S	Prep Date: 06/15/16 10:24	Run ID: E6_160622D
Client ID: LCSD-84795	Batch ID: 84795	Units: ug/Kg	Analysis Date: 06/23/16 07:45	SeqNo: 2383843

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Atroclor-1260	90.90	1.8	33	133.3	0	68.2	60	130	88.20	3.01	30	
Surrogate: Decachlorobiphenyl	34.97		3.3	40.00	0	87.4	60	125	0			

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: MS-02-0102
Lab ID: R0530-01

Project: Lawrence, MA site
Collection Date: 06/10/16 8:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	8.7		0.88	mg/Kg	1	06/23/2016 16:10	84852
Barium	120		8.8	mg/Kg	1	06/23/2016 16:10	84852
Cadmium	2.0		0.22	mg/Kg	1	06/23/2016 16:10	84852
Chromium	45	B	0.88	mg/Kg	1	06/23/2016 16:10	84852
Lead	160	B	0.44	mg/Kg	1	06/23/2016 16:10	84852
Selenium	1.0	J	1.3	mg/Kg	1	06/23/2016 16:10	84852
Silver	0.32	J	1.3	mg/Kg	1	06/23/2016 16:10	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.21		0.039	mg/Kg	1	06/27/2016 16:28	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: MS-02-0203
Lab ID: R0530-02

Project: Lawrence, MA site
Collection Date: 06/10/16 8:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	8.9		0.91	mg/Kg	1	06/23/2016 16:14	84852
Barium	210		9.1	mg/Kg	1	06/23/2016 16:14	84852
Cadmium	4.9		0.23	mg/Kg	1	06/23/2016 16:14	84852
Chromium	45	B	0.91	mg/Kg	1	06/23/2016 16:14	84852
Lead	490	B	0.46	mg/Kg	1	06/23/2016 16:14	84852
Selenium	0.79	J	1.4	mg/Kg	1	06/23/2016 16:14	84852
Silver	0.13	J	1.4	mg/Kg	1	06/23/2016 16:14	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.38		0.041	mg/Kg	1	06/27/2016 16:30	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-07-0.502
Lab ID: R0530-03

Project: Lawrence, MA site
Collection Date: 06/10/16 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	8.4		1.0	mg/Kg		1 06/23/2016 16:18	84852
Barium	120		10	mg/Kg		1 06/23/2016 16:18	84852
Cadmium	1.3		0.25	mg/Kg		1 06/23/2016 16:18	84852
Chromium	32	B	1.0	mg/Kg		1 06/23/2016 16:18	84852
Lead	450	B	0.50	mg/Kg		1 06/23/2016 16:18	84852
Selenium	ND		1.5	mg/Kg		1 06/23/2016 16:18	84852
Silver	0.10	J	1.5	mg/Kg		1 06/23/2016 16:18	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	1.3		0.039	mg/Kg		1 06/27/2016 16:31	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-07-0203
Lab ID: R0530-04

Project: Lawrence, MA site
Collection Date: 06/10/16 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	9.9		0.75	mg/Kg	1	06/23/2016 16:22	84852
Barium	140		7.5	mg/Kg	1	06/23/2016 16:22	84852
Cadmium	0.45		0.19	mg/Kg	1	06/23/2016 16:22	84852
Chromium	22	B	0.75	mg/Kg	1	06/23/2016 16:22	84852
Lead	710	B	0.38	mg/Kg	1	06/23/2016 16:22	84852
Selenium	0.52	J	1.1	mg/Kg	1	06/23/2016 16:22	84852
Silver	0.12	J	1.1	mg/Kg	1	06/23/2016 16:22	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.50		0.041	mg/Kg	1	06/27/2016 16:33	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: MS-03-0102
Lab ID: R0530-05

Project: Lawrence, MA site
Collection Date: 06/10/16 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	8.1		1.0	mg/Kg	1	06/23/2016 16:26	84852
Barium	130		10	mg/Kg	1	06/23/2016 16:26	84852
Cadmium	2.0		0.25	mg/Kg	1	06/23/2016 16:26	84852
Chromium	21	B	1.0	mg/Kg	1	06/23/2016 16:26	84852
Lead	190	B	0.50	mg/Kg	1	06/23/2016 16:26	84852
Selenium	0.71	J	1.5	mg/Kg	1	06/23/2016 16:26	84852
Silver	ND		1.5	mg/Kg	1	06/23/2016 16:26	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.11		0.041	mg/Kg	1	06/27/2016 16:35	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: MS-03-0203
Lab ID: R0530-06

Project: Lawrence, MA site
Collection Date: 06/10/16 8:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	8.3		1.0	mg/Kg	1	06/23/2016 16:37	84852
Barium	110		10	mg/Kg	1	06/23/2016 16:37	84852
Cadmium	1.4		0.25	mg/Kg	1	06/23/2016 16:37	84852
Chromium	26	B	1.0	mg/Kg	1	06/23/2016 16:37	84852
Lead	210	B	0.51	mg/Kg	1	06/23/2016 16:37	84852
Selenium	0.78	J	1.5	mg/Kg	1	06/23/2016 16:37	84852
Silver	0.078	J	1.5	mg/Kg	1	06/23/2016 16:37	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.18		0.036	mg/Kg	1	06/27/2016 16:40	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: MS-01-0102
Lab ID: R0530-07

Project: Lawrence, MA site
Collection Date: 06/10/16 9:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	9.4		0.94	mg/Kg	1	06/23/2016 16:40	84852
Barium	190		9.4	mg/Kg	1	06/23/2016 16:40	84852
Cadmium	0.37		0.23	mg/Kg	1	06/23/2016 16:40	84852
Chromium	44	B	0.94	mg/Kg	1	06/23/2016 16:40	84852
Lead	230	B	0.47	mg/Kg	1	06/23/2016 16:40	84852
Selenium	0.88	J	1.4	mg/Kg	1	06/23/2016 16:40	84852
Silver	ND		1.4	mg/Kg	1	06/23/2016 16:40	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.076		0.036	mg/Kg	1	06/27/2016 16:41	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: MS-01-0203
Lab ID: R0530-08

Project: Lawrence, MA site
Collection Date: 06/10/16 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	9.6		0.87	mg/Kg	1	06/23/2016 16:44	84852
Barium	85		8.7	mg/Kg	1	06/23/2016 16:44	84852
Cadmium	1.0		0.22	mg/Kg	1	06/23/2016 16:44	84852
Chromium	26	B	0.87	mg/Kg	1	06/23/2016 16:44	84852
Lead	190	B	0.43	mg/Kg	1	06/23/2016 16:44	84852
Selenium	1.1	J	1.3	mg/Kg	1	06/23/2016 16:44	84852
Silver	ND		1.3	mg/Kg	1	06/23/2016 16:44	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	1.2		0.042	mg/Kg	1	06/27/2016 16:43	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-06-0.502
Lab ID: R0530-10

Project: Lawrence, MA site
Collection Date: 06/10/16 10:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	18		0.72	mg/Kg	1	06/23/2016 16:48	84852
Barium	140		7.2	mg/Kg	1	06/23/2016 16:48	84852
Cadmium	0.74		0.18	mg/Kg	1	06/23/2016 16:48	84852
Chromium	56	B	0.72	mg/Kg	1	06/23/2016 16:48	84852
Lead	320	B	0.36	mg/Kg	1	06/23/2016 16:48	84852
Selenium	2.0		1.1	mg/Kg	1	06/23/2016 16:48	84852
Silver	0.18	J	1.1	mg/Kg	1	06/23/2016 16:48	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.32		0.042	mg/Kg	1	06/27/2016 16:45	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-06-0203
Lab ID: R0530-11

Project: Lawrence, MA site
Collection Date: 06/10/16 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	9.8		0.88	mg/Kg	1	06/23/2016 16:52	84852
Barium	450		8.8	mg/Kg	1	06/23/2016 16:52	84852
Cadmium	5.8		0.22	mg/Kg	1	06/23/2016 16:52	84852
Chromium	43	B	0.88	mg/Kg	1	06/23/2016 16:52	84852
Lead	750	B	0.44	mg/Kg	1	06/23/2016 16:52	84852
Selenium	ND		1.3	mg/Kg	1	06/23/2016 16:52	84852
Silver	0.15	J	1.3	mg/Kg	1	06/23/2016 16:52	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.22		0.041	mg/Kg	1	06/27/2016 16:46	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-05-0.502
Lab ID: R0530-12

Project: Lawrence, MA site
Collection Date: 06/10/16 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	8.6		1.0	mg/Kg	1	06/23/2016 16:55	84852
Barium	97		10	mg/Kg	1	06/23/2016 16:55	84852
Cadmium	0.62		0.26	mg/Kg	1	06/23/2016 16:55	84852
Chromium	15	B	1.0	mg/Kg	1	06/23/2016 16:55	84852
Lead	270	B	0.52	mg/Kg	1	06/23/2016 16:55	84852
Selenium	ND		1.6	mg/Kg	1	06/23/2016 16:55	84852
Silver	ND		1.6	mg/Kg	1	06/23/2016 16:55	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.31		0.041	mg/Kg	1	06/27/2016 16:48	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-05-0203
Lab ID: R0530-13

Project: Lawrence, MA site
Collection Date: 06/10/16 10:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	13		0.97	mg/Kg	1	06/23/2016 16:59	84852
Barium	66		9.7	mg/Kg	1	06/23/2016 16:59	84852
Cadmium	9.0		0.24	mg/Kg	1	06/23/2016 16:59	84852
Chromium	25	B	0.97	mg/Kg	1	06/23/2016 16:59	84852
Lead	370	B	0.49	mg/Kg	1	06/23/2016 16:59	84852
Selenium	0.68	J	1.5	mg/Kg	1	06/23/2016 16:59	84852
Silver	0.21	J	1.5	mg/Kg	1	06/23/2016 16:59	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.95		0.044	mg/Kg	1	06/27/2016 16:53	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-04-0.502
Lab ID: R0530-14

Project: Lawrence, MA site
Collection Date: 06/10/16 10:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	7.0		0.85	mg/Kg	1	06/23/2016 17:10	84852
Barium	65		8.5	mg/Kg	1	06/23/2016 17:10	84852
Cadmium	0.46		0.21	mg/Kg	1	06/23/2016 17:10	84852
Chromium	26	B	0.85	mg/Kg	1	06/23/2016 17:10	84852
Lead	450	B	0.42	mg/Kg	1	06/23/2016 17:10	84852
Selenium	ND		1.3	mg/Kg	1	06/23/2016 17:10	84852
Silver	ND		1.3	mg/Kg	1	06/23/2016 17:10	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.37		0.037	mg/Kg	1	06/27/2016 16:55	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-04-0203
Lab ID: R0530-15

Project: Lawrence, MA site
Collection Date: 06/10/16 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	8.5		0.91	mg/Kg	1	06/23/2016 17:14	84852
Barium	39		9.1	mg/Kg	1	06/23/2016 17:14	84852
Cadmium	1.1		0.23	mg/Kg	1	06/23/2016 17:14	84852
Chromium	15	B	0.91	mg/Kg	1	06/23/2016 17:14	84852
Lead	250	B	0.45	mg/Kg	1	06/23/2016 17:14	84852
Selenium	ND		1.4	mg/Kg	1	06/23/2016 17:14	84852
Silver	ND		1.4	mg/Kg	1	06/23/2016 17:14	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.15		0.040	mg/Kg	1	06/27/2016 16:56	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-03-0.502
Lab ID: R0530-16

Project: Lawrence, MA site
Collection Date: 06/10/16 10:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	9.3		0.92	mg/Kg	1	06/23/2016 17:18	84852
Barium	91		9.2	mg/Kg	1	06/23/2016 17:18	84852
Cadmium	0.33		0.23	mg/Kg	1	06/23/2016 17:18	84852
Chromium	32	B	0.92	mg/Kg	1	06/23/2016 17:18	84852
Lead	390	B	0.46	mg/Kg	1	06/23/2016 17:18	84852
Selenium	1.3	J	1.4	mg/Kg	1	06/23/2016 17:18	84852
Silver	ND		1.4	mg/Kg	1	06/23/2016 17:18	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.18		0.037	mg/Kg	1	06/27/2016 16:58	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-03-0203
Lab ID: R0530-17

Project: Lawrence, MA site
Collection Date: 06/10/16 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	4.9		1.0	mg/Kg	1	06/23/2016 17:21	84852
Barium	91		10	mg/Kg	1	06/23/2016 17:21	84852
Cadmium	0.19	J	0.25	mg/Kg	1	06/23/2016 17:21	84852
Chromium	10	B	1.0	mg/Kg	1	06/23/2016 17:21	84852
Lead	600	B	0.51	mg/Kg	1	06/23/2016 17:21	84852
Selenium	ND		1.5	mg/Kg	1	06/23/2016 17:21	84852
Silver	ND		1.5	mg/Kg	1	06/23/2016 17:21	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.21		0.042	mg/Kg	1	06/27/2016 17:00	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-01-0.502
Lab ID: R0530-18

Project: Lawrence, MA site
Collection Date: 06/10/16 10:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	5.1		0.79	mg/Kg	1	06/23/2016 17:25	84852
Barium	87		7.9	mg/Kg	1	06/23/2016 17:25	84852
Cadmium	0.61		0.20	mg/Kg	1	06/23/2016 17:25	84852
Chromium	18	B	0.79	mg/Kg	1	06/23/2016 17:25	84852
Lead	350	B	0.39	mg/Kg	1	06/23/2016 17:25	84852
Selenium	0.83	J	1.2	mg/Kg	1	06/23/2016 17:25	84852
Silver	ND		1.2	mg/Kg	1	06/23/2016 17:25	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.83		0.040	mg/Kg	1	06/27/2016 17:02	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-01-0203
Lab ID: R0530-19

Project: Lawrence, MA site
Collection Date: 06/10/16 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	8.9		0.70	mg/Kg	1	06/23/2016 17:29	84852
Barium	32		7.0	mg/Kg	1	06/23/2016 17:29	84852
Cadmium	0.20		0.17	mg/Kg	1	06/23/2016 17:29	84852
Chromium	13	B	0.70	mg/Kg	1	06/23/2016 17:29	84852
Lead	100	B	0.35	mg/Kg	1	06/23/2016 17:29	84852
Selenium	0.73	J	1.0	mg/Kg	1	06/23/2016 17:29	84852
Silver	ND		1.0	mg/Kg	1	06/23/2016 17:29	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.27		0.043	mg/Kg	1	06/27/2016 17:07	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-02-0.502
Lab ID: R0530-20

Project: Lawrence, MA site
Collection Date: 06/10/16 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	6.2		0.95	mg/Kg	1	06/23/2016 17:33	84852
Barium	58		9.5	mg/Kg	1	06/23/2016 17:33	84852
Cadmium	0.63		0.24	mg/Kg	1	06/23/2016 17:33	84852
Chromium	21	B	0.95	mg/Kg	1	06/23/2016 17:33	84852
Lead	230	B	0.47	mg/Kg	1	06/23/2016 17:33	84852
Selenium	0.75	J	1.4	mg/Kg	1	06/23/2016 17:33	84852
Silver	ND		1.4	mg/Kg	1	06/23/2016 17:33	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.12		0.038	mg/Kg	1	06/27/2016 17:08	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Nobis Engineering, Inc
Client Sample ID: NPA-02-0203
Lab ID: R0530-21

Project: Lawrence, MA site
Collection Date: 06/10/16 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Arsenic	8.4		0.95	mg/Kg	1	06/23/2016 17:44	84852
Barium	49		9.5	mg/Kg	1	06/23/2016 17:44	84852
Cadmium	0.15	J	0.24	mg/Kg	1	06/23/2016 17:44	84852
Chromium	17	B	0.95	mg/Kg	1	06/23/2016 17:44	84852
Lead	160	B	0.47	mg/Kg	1	06/23/2016 17:44	84852
Selenium	ND		1.4	mg/Kg	1	06/23/2016 17:44	84852
Silver	ND		1.4	mg/Kg	1	06/23/2016 17:44	84852
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.12		0.039	mg/Kg	1	06/27/2016 17:10	84866

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

Client: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW6010_S
SW846 6010C -- Metals by ICP

Sample ID: **MB-84852** Prep Date: **06/22/16 14:10** Run ID: **OPTIMA4_160623D**
 Client ID: **MB-84852** Analysis Date: **06/23/16 16:03** SeqNo: **2383386**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.41	1.0									
Barium	ND	0.031	1.0									
Cadmium	ND	0.015	0.25									J
Chromium	0.02016	0.019	1.0									J
Lead	0.2822	0.17	0.50									
Selenium	ND	0.64	1.5									
Silver	ND	0.064	1.5									

Sample ID: **LCS-84852** Prep Date: **06/22/16 14:10** Run ID: **OPTIMA4_160623D**
 Client ID: **LCS-84852** Analysis Date: **06/23/16 16:07** SeqNo: **2383387**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24.56	0.41	1.0	25.00	0	98.2	80	120	0			
Barium	498.5	0.031	1.0	500.0	0	99.7	80	120	0			
Cadmium	12.59	0.015	0.25	12.50	0	101	80	120	0			
Chromium	50.03	0.019	1.0	50.00	0	100	80	120	0			B
Lead	25.01	0.17	0.50	25.00	0	100	80	120	0			B
Selenium	23.27	0.64	1.5	25.00	0	93.1	80	120	0			
Silver	60.11	0.064	1.5	62.50	0	96.2	75	120	0			

Sample ID: **R0530-21ADUP** Prep Date: **06/22/16 14:10** Run ID: **OPTIMA4_160623D**
 Client ID: **NPA-02-0203** Analysis Date: **06/23/16 17:47** SeqNo: **2383414**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.853	0.41	1.0	0	0	0	0	0	8.366	53.2	20	R
Barium	55.43	0.031	1.0	0	0	0	0	0	49.16	12	20	
Cadmium	0.2760	0.015	0.25	0	0	0	0	0	0.1494	59.5	20	R
Chromium	14.76	0.019	1.0	0	0	0	0	0	17.43	16.6	20	B
Lead	177.5	0.17	0.50	0	0	0	0	0	160.1	10.3	20	B
Selenium	ND	0.65	1.5	0	0	0	0	0	0	0	20	
Silver	ND	0.065	1.5	0	0	0	0	0	0	0	20	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW6010_S
SW846 6010C -- Metals by ICP

Sample ID: R0530-21AMS **SampType:** MS **TestCode:** SW6010_S **Prep Date:** 06/22/16 14:10 **Run ID:** OPTIMA4_160623D
Client ID: NPA-02-0203 **Batch ID:** 84852 **Units:** mg/Kg **Analysis Date:** 06/23/16 17:51 **SeqNo:** 2383415

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	22.68	0.31	0.76	19.08	8.366	75.0	80	120	0			S
Barium	423.9	0.024	7.6	381.7	49.16	98.2	80	120	0			
Cadmium	9.356	0.011	0.19	9.542	0.1494	96.5	80	120	0			
Chromium	48.61	0.015	0.76	38.17	17.43	81.7	80	120	0			B
Lead	176.8	0.13	0.38	19.08	160.1	87.3	80	120	0			B
Selenium	17.89	0.49	1.1	19.08	0	93.7	80	120	0			
Silver	44.80	0.049	1.1	47.71	0	93.9	75	120	0			

Sample ID: R0530-21ASD **SampType:** SD **TestCode:** SW6010_S **Prep Date:** 06/22/16 14:10 **Run ID:** OPTIMA4_160623D
Client ID: NPA-02-0203 **Batch ID:** 84852 **Units:** mg/Kg **Analysis Date:** 06/23/16 17:55 **SeqNo:** 2383416

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	8.806	1.9	4.7	0	0	0	0	0	8.366	5.12	10	
Barium	54.41	0.15	47	0	0	0	0	0	49.16	10.1	10	R
Cadmium	0.1979	0.071	1.2	0	0	0	0	0	0.1494	27.9	10	JR
Chromium	19.30	0.090	4.7	0	0	0	0	0	17.43	10.2	10	BR
Lead	180.5	0.81	2.4	0	0	0	0	0	160.1	12	10	BR
Selenium	ND	3.0	7.1	0	0	0	0	0	0	0	10	
Silver	ND	0.30	7.1	0	0	0	0	0	0	0	10	

Sample ID: R0530-21APDS **SampType:** PDS **TestCode:** SW6010_S **Prep Date:** 06/22/16 14:10 **Run ID:** OPTIMA4_160623D
Client ID: NPA-02-0203 **Batch ID:** 84852 **Units:** mg/Kg **Analysis Date:** 06/23/16 17:58 **SeqNo:** 2383417

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	32.06	0.39	0.95	23.69	8.366	100	75	125	0			

ANALYTICAL QC SUMMARY REPORT

CLIENT: Nobis Engineering, Inc
Work Order: R0530
Project: Lawrence, MA site

SW7471
SW846 7471B -- Mercury by FIA

Sample ID	MB-84866	SampType:	MBLK	TestCode:	SW7471	Prep Date:	06/24/16 9:50	Run ID:	FIMS2_160627A				
Client ID:	MB-84866	Batch ID:	84866	Units:	mg/Kg	Analysis Date:	06/27/16 16:25	SeqNo:	2383995				
Analyte		Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.0021	0.033	0.7580	0	1.04	80	1.20	0	0		

Sample ID	LCS-84866	SampType:	LCS	TestCode:	SW7471	Prep Date:	06/24/16 9:50	Run ID:	FIMS2_160627A				
Client ID:	LCS-84866	Batch ID:	84866	Units:	mg/Kg	Analysis Date:	06/27/16 16:26	SeqNo:	2383996				
Analyte		Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.7852	0.0021	0.033	0.7580	0	1.04	80	1.20	0	0		

Sample ID	R0530-21ADUP	SampType:	DUP	TestCode:	SW7471	Prep Date:	06/24/16 9:50	Run ID:	FIMS2_160627A				
Client ID:	NPA-02-0203	Batch ID:	84866	Units:	mg/Kg	Analysis Date:	06/27/16 17:12	SeqNo:	2384023				
Analyte		Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.1006	0.0025	0.040	0	0	0	0	0	0.1204	1.8	2.0	

Sample ID	R0530-21AMS	SampType:	MS	TestCode:	SW7471	Prep Date:	06/24/16 9:50	Run ID:	FIMS2_160627A				
Client ID:	NPA-02-0203	Batch ID:	84866	Units:	mg/Kg	Analysis Date:	06/27/16 17:13	SeqNo:	2384024				
Analyte		Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		1.034	0.0025	0.040	0.9090	0.1204	1.00	80	1.20	0	0		

- Final Report
- Re-Issued Report
- Revised Report

Report Date:
24-Jun-16 16:44

Laboratory Report

Eurofins Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Edward Lawler

Project: Lawrence, MA Site
Project #: R0530

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC22560-01	MS-02-0203	Soil	10-Jun-16 08:05	15-Jun-16 16:17

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received. All applicable NELAC requirements have been met.

- Massachusetts # M-MA138/MA1110
- Connecticut # PH-0777
- Florida # E87936
- Maine # MA138
- New Hampshire # 2538
- New Jersey # MA011
- New York # 11393
- Pennsylvania # 68-04426/68-02924
- Rhode Island # LAO00098
- USDA # S-51435



Authorized by:

June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds primary NELAC certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 14 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrices	Soil		
Containers	✓ Satisfactory		
Aqueous Preservative	✓ N/A	pH ≤ 2	pH > 2 pH adjusted to < 2 in lab
Temperature	Received on ice	Received at 4 ± 2 °C	✓ Other: 1.4°C

Were all QA/QC procedures followed as required by the EPH method? *Yes*

Were any significant modifications made to the EPH method as specified in Section 11.3? *No*

Were all performance/acceptance standards for required QA/QC procedures achieved? *Yes*


I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Authorized by:



June O'Connor
Laboratory Director

MassDEP Analytical Protocol Certification Form

Laboratory Name: Eurofins Spectrum Analytical, Inc.			Project #: R0530			
Project Location: Lawrence, MA Site			RTN:			
This form provides certifications for the following data set:			SC22560-01			
Matrices: Soil						
CAM Protocol						
8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A	
8270 SVOC CAM II B	7010 Metals CAM III C	✓ MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B	
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9012 Total Cyanide/PAC CAM VI A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	
<i>Affirmative responses to questions A through F are required for Presumptive Certainty's status</i>						
A	Were all samples received in a condition consistent with those described on the Chain of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?				✓ Yes	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?				✓ Yes	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?				✓ Yes	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				✓ Yes	No
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?				✓ Yes Yes	No No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to questions A through E)?				✓ Yes	No
<i>Responses to questions G, H and I below are required for Presumptive Certainty's status</i>						
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?				Yes	✓ No
Data User Note: Data that achieve Presumptive Certainty's status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.						
H	Were all QC performance standards specified in the CAM protocol(s) achieved?				Yes	✓ No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?				✓ Yes	No
<i>All negative responses are addressed in a case narrative on the cover page of this report.</i>						
<i>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.</i>						
 June O'Connor Laboratory Director Date: 6/24/2016						

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 1.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

According to WSC-CAM 5/2009 Rev.1, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended recovery range, a range has been set based on historical control limits.

Some target analytes which are not listed as exceptions in the Summary of CAM Reporting Limits may exceed the recommended RL based on sample initial volume or weight provided, % moisture content, or responsiveness of a particular analyte to purge and trap instrumentation.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

MADEP EPH 5/2004 R

Calibration:

1604020

Analyte quantified by quadratic equation type calibration.

- Benzo (a) pyrene
- Benzo (g,h,i) perylene
- Dibenzo (a,h) anthracene
- Indeno (1,2,3-cd) pyrene

This affected the following samples:

S603014-ICV2

Laboratory Control Samples:

1610262 BSD

C9-C18 Aliphatic Hydrocarbons RPD 29% (25%) is outside individual acceptance criteria.

Sample Acceptance Check Form

Client: Eurofins Spectrum Analytical, Inc. - RI
 Project: Lawrence, MA Site / R0530
 Work Order: SC22560
 Sample(s) received on: 6/15/2016

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Summary of Hits

Lab ID: SC22560-01

Client ID: MS-02-0203

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Anthracene	6.48		1.79	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	13.9		1.79	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	13.1		1.79	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	7.31		1.79	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	8.30		1.79	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	10.1		1.79	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	347		53.8	mg/kg	MADEP EPH 5/2004 R
Chrysene	11.8		1.79	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	2.11		1.79	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	29.5		1.79	mg/kg	MADEP EPH 5/2004 R
Fluorene	2.37		1.79	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	7.48		1.79	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	22.9		1.79	mg/kg	MADEP EPH 5/2004 R
Pyrene	23.1		1.79	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	508		53.8	mg/kg	MADEP EPH 5/2004 R

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

MS-02-0203

SC22560-01

Client Project #

R0530

Matrix

Soil

Collection Date/Time

10-Jun-16 08:05

Received

15-Jun-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Extractable Petroleum Hydrocarbons

MADEP EPH

Prepared by method SW846 3545A

	C9-C18 Aliphatic Hydrocarbons	< 53.8		mg/kg dry	53.8	12.9	1	MADEP EPH 5/2004 R	17-Jun-16	23-Jun-16	NAA	1610262	
	C19-C36 Aliphatic Hydrocarbons	< 53.8		mg/kg dry	53.8	12.4	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	347		mg/kg dry	53.8	27.9	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	508		mg/kg dry	53.8	27.9	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.79		mg/kg dry	1.79	1.42	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1.79		mg/kg dry	1.79	0.770	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 1.79		mg/kg dry	1.79	1.14	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 1.79		mg/kg dry	1.79	1.08	1	"	"	"	"	"	
86-73-7	Fluorene	2.37		mg/kg dry	1.79	1.11	1	"	"	"	"	"	
85-01-8	Phenanthrene	22.9		mg/kg dry	1.79	1.06	1	"	"	"	"	"	
120-12-7	Anthracene	6.48		mg/kg dry	1.79	0.985	1	"	"	"	"	"	
206-44-0	Fluoranthene	29.5		mg/kg dry	1.79	1.19	1	"	"	"	"	"	
129-00-0	Pyrene	23.1		mg/kg dry	1.79	0.920	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	13.9		mg/kg dry	1.79	1.14	1	"	"	"	"	"	
218-01-9	Chrysene	11.8		mg/kg dry	1.79	1.32	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	7.31		mg/kg dry	1.79	1.53	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	10.1		mg/kg dry	1.79	1.66	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	13.1		mg/kg dry	1.79	1.20	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	7.48		mg/kg dry	1.79	1.10	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	2.11		mg/kg dry	1.79	0.872	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	8.30		mg/kg dry	1.79	1.01	1	"	"	"	"	"	

Surrogate recoveries:

3386-33-2	1-Chlorooctadecane	140			40-140 %			"	"	"	"	"	
84-15-1	Ortho-Terphenyl	44			40-140 %			"	"	"	"	"	
321-60-8	2-Fluorobiphenyl	75			40-140 %			"	"	"	"	"	

General Chemistry Parameters

	% Solids	91.6		%			1	SM2540 G Mod.	16-Jun-16	16-Jun-16	DT	1610228	
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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1610262 - SW846 3545A										
Blank (1610262-BLK1)					<u>Prepared & Analyzed: 17-Jun-16</u>					
C9-C18 Aliphatic Hydrocarbons	< 9.95		mg/kg wet	9.95						
C19-C36 Aliphatic Hydrocarbons	< 9.95		mg/kg wet	9.95						
C11-C22 Aromatic Hydrocarbons	< 9.95		mg/kg wet	9.95						
Unadjusted C11-C22 Aromatic Hydrocarbons	< 9.95		mg/kg wet	9.95						
Total Petroleum Hydrocarbons	< 29.9		mg/kg wet	29.9						
Unadjusted Total Petroleum Hydrocarbons	< 29.9		mg/kg wet	29.9						
Naphthalene	< 0.331		mg/kg wet	0.331						
2-Methylnaphthalene	< 0.331		mg/kg wet	0.331						
Acenaphthylene	< 0.331		mg/kg wet	0.331						
Acenaphthene	< 0.331		mg/kg wet	0.331						
Fluorene	< 0.331		mg/kg wet	0.331						
Phenanthrene	< 0.331		mg/kg wet	0.331						
Anthracene	< 0.331		mg/kg wet	0.331						
Fluoranthene	< 0.331		mg/kg wet	0.331						
Pyrene	< 0.331		mg/kg wet	0.331						
Benzo (a) anthracene	< 0.331		mg/kg wet	0.331						
Chrysene	< 0.331		mg/kg wet	0.331						
Benzo (b) fluoranthene	< 0.331		mg/kg wet	0.331						
Benzo (k) fluoranthene	< 0.331		mg/kg wet	0.331						
Benzo (a) pyrene	< 0.331		mg/kg wet	0.331						
Indeno (1,2,3-cd) pyrene	< 0.331		mg/kg wet	0.331						
Dibenzo (a,h) anthracene	< 0.331		mg/kg wet	0.331						
Benzo (g,h,i) perylene	< 0.331		mg/kg wet	0.331						
n-Nonane (C9)	< 0.331		mg/kg wet	0.331						
n-Decane	< 0.331		mg/kg wet	0.331						
n-Dodecane	< 0.331		mg/kg wet	0.331						
n-Tetradecane	< 0.331		mg/kg wet	0.331						
n-Hexadecane	< 0.331		mg/kg wet	0.331						
n-Octadecane	< 0.331		mg/kg wet	0.331						
n-Nonadecane	< 0.331		mg/kg wet	0.331						
n-Eicosane	< 0.331		mg/kg wet	0.331						
n-Docosane	< 0.331		mg/kg wet	0.331						
n-Tetracosane	< 0.331		mg/kg wet	0.331						
n-Hexacosane	< 0.331		mg/kg wet	0.331						
n-Octacosane	< 0.331		mg/kg wet	0.331						
n-Triacontane	< 0.331		mg/kg wet	0.331						
n-Hexatriacontane	< 0.331		mg/kg wet	0.331						
Naphthalene (aliphatic fraction)	0.00		mg/kg wet							
2-Methylnaphthalene (aliphatic fraction)	0.00		mg/kg wet							
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Surrogate: 1-Chlorooctadecane	2.65		mg/kg wet		3.32		80	40-140		
Surrogate: Ortho-Terphenyl	2.14		mg/kg wet		3.32		64	40-140		
Surrogate: 2-Fluorobiphenyl	1.30		mg/kg wet		2.65		49	40-140		
LCS (1610262-BS1)					<u>Prepared & Analyzed: 17-Jun-16</u>					
C9-C18 Aliphatic Hydrocarbons	44.3		mg/kg wet	9.74	39.0		114	40-140		
C19-C36 Aliphatic Hydrocarbons	39.0		mg/kg wet	9.74	52.0		75	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	24.7		mg/kg wet	9.74	44.2		56	40-140		
Naphthalene	1.13		mg/kg wet	0.324	2.60		44	40-140		
2-Methylnaphthalene	1.25		mg/kg wet	0.324	2.60		48	40-140		
Acenaphthylene	1.24		mg/kg wet	0.324	2.60		48	40-140		
Acenaphthene	1.26		mg/kg wet	0.324	2.60		49	40-140		

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1610262 - SW846 3545A										
<u>LCS (1610262-BS1)</u>					<u>Prepared & Analyzed: 17-Jun-16</u>					
Fluorene	1.37		mg/kg wet	0.324	2.60		53	40-140		
Phenanthrene	1.45		mg/kg wet	0.324	2.60		56	40-140		
Anthracene	1.39		mg/kg wet	0.324	2.60		54	40-140		
Fluoranthene	1.52		mg/kg wet	0.324	2.60		59	40-140		
Pyrene	1.52		mg/kg wet	0.324	2.60		58	40-140		
Benzo (a) anthracene	1.69		mg/kg wet	0.324	2.60		65	40-140		
Chrysene	1.63		mg/kg wet	0.324	2.60		63	40-140		
Benzo (b) fluoranthene	1.66		mg/kg wet	0.324	2.60		64	40-140		
Benzo (k) fluoranthene	1.74		mg/kg wet	0.324	2.60		67	40-140		
Benzo (a) pyrene	1.73		mg/kg wet	0.324	2.60		66	40-140		
Indeno (1,2,3-cd) pyrene	1.51		mg/kg wet	0.324	2.60		58	40-140		
Dibenzo (a,h) anthracene	1.43		mg/kg wet	0.324	2.60		55	40-140		
Benzo (g,h,i) perylene	1.42		mg/kg wet	0.324	2.60		54	40-140		
n-Nonane (C9)	2.64		mg/kg wet	0.324	6.49		41	30-140		
n-Decane	2.88		mg/kg wet	0.324	6.49		44	40-140		
n-Dodecane	3.29		mg/kg wet	0.324	6.49		51	40-140		
n-Tetradecane	3.69		mg/kg wet	0.324	6.49		57	40-140		
n-Hexadecane	4.13		mg/kg wet	0.324	6.49		64	40-140		
n-Octadecane	4.34		mg/kg wet	0.324	6.49		67	40-140		
n-Nonadecane	4.42		mg/kg wet	0.324	6.49		68	40-140		
n-Eicosane	4.44		mg/kg wet	0.324	6.49		68	40-140		
n-Docosane	4.57		mg/kg wet	0.324	6.49		70	40-140		
n-Tetracosane	4.67		mg/kg wet	0.324	6.49		72	40-140		
n-Hexacosane	4.74		mg/kg wet	0.324	6.49		73	40-140		
n-Octacosane	4.74		mg/kg wet	0.324	6.49		73	40-140		
n-Triacontane	4.70		mg/kg wet	0.324	6.49		72	40-140		
n-Hexatriacontane	4.44		mg/kg wet	0.324	6.49		68	40-140		
Naphthalene (aliphatic fraction)	0.00		mg/kg wet					0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		mg/kg wet					0-200		
<i>Surrogate: 1-Chlorooctadecane</i>	2.71		mg/kg wet		3.25		83	40-140		
<i>Surrogate: Ortho-Terphenyl</i>	1.99		mg/kg wet		3.25		61	40-140		
<i>Surrogate: 2-Fluorobiphenyl</i>	1.48		mg/kg wet		2.60		57	40-140		
<u>LCS (1610262-BS2)</u>					<u>Prepared & Analyzed: 17-Jun-16</u>					
C9-C18 Aliphatic Hydrocarbons	41.2		mg/kg wet	10.0	40.0		103	40-140		
C19-C36 Aliphatic Hydrocarbons	28.1		mg/kg wet	10.0	53.3		53	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	32.3		mg/kg wet	10.0	45.3		71	40-140		
Naphthalene	1.10		mg/kg wet	0.333	2.67		41	40-140		
2-Methylnaphthalene	1.36		mg/kg wet	0.333	2.67		51	40-140		
Acenaphthylene	1.33		mg/kg wet	0.333	2.67		50	40-140		
Acenaphthene	1.39		mg/kg wet	0.333	2.67		52	40-140		
Fluorene	1.55		mg/kg wet	0.333	2.67		58	40-140		
Phenanthrene	1.67		mg/kg wet	0.333	2.67		63	40-140		
Anthracene	1.64		mg/kg wet	0.333	2.67		62	40-140		
Fluoranthene	1.78		mg/kg wet	0.333	2.67		67	40-140		
Pyrene	1.76		mg/kg wet	0.333	2.67		66	40-140		
Benzo (a) anthracene	1.90		mg/kg wet	0.333	2.67		71	40-140		
Chrysene	1.89		mg/kg wet	0.333	2.67		71	40-140		
Benzo (b) fluoranthene	1.46		mg/kg wet	0.333	2.67		55	40-140		
Benzo (k) fluoranthene	2.00		mg/kg wet	0.333	2.67		75	40-140		
Benzo (a) pyrene	2.00		mg/kg wet	0.333	2.67		75	40-140		
Indeno (1,2,3-cd) pyrene	1.77		mg/kg wet	0.333	2.67		66	40-140		

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1610262 - SW846 3545A										
<u>LCS (1610262-BS2)</u>					<u>Prepared & Analyzed: 17-Jun-16</u>					
Dibenzo (a,h) anthracene	1.67		mg/kg wet	0.333	2.67		62	40-140		
Benzo (g,h,i) perylene	1.68		mg/kg wet	0.333	2.67		63	40-140		
n-Nonane (C9)	2.89		mg/kg wet	0.333	6.67		43	30-140		
n-Decane	3.37		mg/kg wet	0.333	6.67		51	40-140		
n-Dodecane	3.53		mg/kg wet	0.333	6.67		53	40-140		
n-Tetradecane	3.90		mg/kg wet	0.333	6.67		59	40-140		
n-Hexadecane	4.29		mg/kg wet	0.333	6.67		64	40-140		
n-Octadecane	4.55		mg/kg wet	0.333	6.67		68	40-140		
n-Nonadecane	4.71		mg/kg wet	0.333	6.67		71	40-140		
n-Eicosane	4.76		mg/kg wet	0.333	6.67		71	40-140		
n-Docosane	4.95		mg/kg wet	0.333	6.67		74	40-140		
n-Tetracosane	5.03		mg/kg wet	0.333	6.67		75	40-140		
n-Hexacosane	5.09		mg/kg wet	0.333	6.67		76	40-140		
n-Octacosane	5.04		mg/kg wet	0.333	6.67		76	40-140		
n-Triacontane	4.93		mg/kg wet	0.333	6.67		74	40-140		
n-Hexatriacontane	4.68		mg/kg wet	0.333	6.67		70	40-140		
Naphthalene (aliphatic fraction)	0.00		mg/kg wet					0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		mg/kg wet					0-200		
<i>Surrogate: 1-Chlorooctadecane</i>	2.77		mg/kg wet		3.33		83	40-140		
<i>Surrogate: Ortho-Terphenyl</i>	2.17		mg/kg wet		3.33		65	40-140		
<i>Surrogate: 2-Fluorobiphenyl</i>	1.47		mg/kg wet		2.67		55	40-140		
<u>LCS Dup (1610262-BSD1)</u>					<u>Prepared & Analyzed: 17-Jun-16</u>					
C9-C18 Aliphatic Hydrocarbons	33.1	QR2	mg/kg wet	9.53	38.1		87	40-140	29	25
C19-C36 Aliphatic Hydrocarbons	31.0		mg/kg wet	9.53	50.8		61	40-140	23	25
Unadjusted C11-C22 Aromatic Hydrocarbons	30.7		mg/kg wet	9.53	43.2		71	40-140	22	25
Naphthalene	1.10		mg/kg wet	0.317	2.54		43	40-140	3	25
2-Methylnaphthalene	1.31		mg/kg wet	0.317	2.54		52	40-140	4	25
Acenaphthylene	1.39		mg/kg wet	0.317	2.54		55	40-140	11	25
Acenaphthene	1.43		mg/kg wet	0.317	2.54		56	40-140	12	25
Fluorene	1.54		mg/kg wet	0.317	2.54		61	40-140	11	25
Phenanthrene	1.70		mg/kg wet	0.317	2.54		67	40-140	16	25
Anthracene	1.62		mg/kg wet	0.317	2.54		64	40-140	15	25
Fluoranthene	1.81		mg/kg wet	0.317	2.54		71	40-140	17	25
Pyrene	1.79		mg/kg wet	0.317	2.54		71	40-140	17	25
Benzo (a) anthracene	1.98		mg/kg wet	0.317	2.54		78	40-140	16	25
Chrysene	1.92		mg/kg wet	0.317	2.54		76	40-140	17	25
Benzo (b) fluoranthene	1.68		mg/kg wet	0.317	2.54		66	40-140	1	25
Benzo (k) fluoranthene	2.02		mg/kg wet	0.317	2.54		80	40-140	15	25
Benzo (a) pyrene	2.05		mg/kg wet	0.317	2.54		80	40-140	17	25
Indeno (1,2,3-cd) pyrene	1.81		mg/kg wet	0.317	2.54		71	40-140	18	25
Dibenzo (a,h) anthracene	1.74		mg/kg wet	0.317	2.54		69	40-140	20	25
Benzo (g,h,i) perylene	1.70		mg/kg wet	0.317	2.54		67	40-140	18	25
n-Nonane (C9)	2.61		mg/kg wet	0.317	6.36		41	30-140	1	25
n-Decane	3.12		mg/kg wet	0.317	6.36		49	40-140	8	25
n-Dodecane	3.53		mg/kg wet	0.317	6.36		55	40-140	7	25
n-Tetradecane	4.05		mg/kg wet	0.317	6.36		64	40-140	9	25
n-Hexadecane	4.58		mg/kg wet	0.317	6.36		72	40-140	10	25
n-Octadecane	4.87		mg/kg wet	0.317	6.36		77	40-140	11	25
n-Nonadecane	4.99		mg/kg wet	0.317	6.36		79	40-140	12	25
n-Eicosane	5.04		mg/kg wet	0.317	6.36		79	40-140	13	25
n-Docosane	5.24		mg/kg wet	0.317	6.36		83	40-140	14	25

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1610262 - SW846 3545A										
<u>LCS Dup (1610262-BSD1)</u>					<u>Prepared & Analyzed: 17-Jun-16</u>					
n-Tetracosane	5.31		mg/kg wet	0.317	6.36		84	40-140	13	25
n-Hexacosane	5.35		mg/kg wet	0.317	6.36		84	40-140	12	25
n-Octacosane	5.33		mg/kg wet	0.317	6.36		84	40-140	12	25
n-Triacontane	5.25		mg/kg wet	0.317	6.36		83	40-140	11	25
n-Hexatriacontane	4.93		mg/kg wet	0.317	6.36		78	40-140	10	25
Naphthalene (aliphatic fraction)	0.00		mg/kg wet					0-200		200
2-Methylnaphthalene (aliphatic fraction)	0.00		mg/kg wet					0-200		200
Surrogate: 1-Chlorooctadecane	2.97		mg/kg wet		3.18		93	40-140		
Surrogate: Ortho-Terphenyl	2.34		mg/kg wet		3.18		74	40-140		
Surrogate: 2-Fluorobiphenyl	1.50		mg/kg wet		2.54		59	40-140		

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S605292				
<u>Calibration Check (S605292-CCV1)</u>				
C9-C18 Aliphatic Hydrocarbons	225670.7	168519	6.2	25
C19-C36 Aliphatic Hydrocarbons	1433281	381938.3	-13.4	25
Unadjusted C11-C22 Aromatic Hydrocarbons	24.03551	18.29397	6.2	20
Naphthalene	7.378404	6.262801	-15.1	20
2-Methylnaphthalene	4.308346	4.170433	-3.2	20
Acenaphthylene	7.460001	6.069671	-18.6	20
Acenaphthene	4.845007	3.943643	-18.6	20
Fluorene	5.074137	4.079455	-19.6	20
Phenanthrene	6.753278	5.706565	-15.5	20
Anthracene	7.709496	6.36792	-17.4	20
Fluoranthene	7.305509	6.125997	-16.1	20
Pyrene	7.652392	6.491395	-15.2	20
Benzo (a) anthracene	5.896059	5.748127	-2.5	20
Chrysene	6.7393	6.303664	-6.5	20
Benzo (b) fluoranthene	6.035965	5.783452	-4.2	20
Benzo (k) fluoranthene	6.638118	6.811018	2.6	20
Benzo (a) pyrene	5.579656	5.478201	1.3	20
Indeno (1,2,3-cd) pyrene	6.366253	6.231507	-0.8	20
Dibenzo (a,h) anthracene	5.317723	5.176049	-4.9	20
Benzo (g,h,i) perylene	5.394442	5.288708	-0.9	20
n-Nonane (C9)	205747.8	184318.5	-10.4	25
n-Decane	204813.1	183336	-10.5	25
n-Dodecane	203877.7	178778.4	-12.3	25
n-Tetradecane	201712.1	177688.7	-11.9	25
n-Hexadecane	195278.5	172921	-11.4	25
n-Octadecane	187431.2	167738.6	-10.5	25
n-Nonadecane	181249.4	165008.5	-9.0	25
n-Eicosane	176548	163907.9	-7.2	25
n-Docosane	168319.2	162872.7	-3.2	25
n-Tetracosane	163462.3	165015.7	1.0	25
n-Hexacosane	158574.7	168499.8	6.3	25
n-Octacosane	158586.1	170403.3	7.5	25
n-Triacontane	158880.7	169917.2	6.9	25
n-Hexatriacontane	159740.7	163186.1	2.2	25
Naphthalene (aliphatic fraction)	247081.9			
2-Methylnaphthalene (aliphatic fraction)	252288.7			
<u>Calibration Check (S605292-CCV2)</u>				
C9-C18 Aliphatic Hydrocarbons	225670.7	179907.2	14.2	25
C19-C36 Aliphatic Hydrocarbons	1433281	386573	-10.1	25
Unadjusted C11-C22 Aromatic Hydrocarbons	24.03551	18.20576	5.6	20
Naphthalene	7.378404	7.169804	-2.8	20
2-Methylnaphthalene	4.308346	4.670931	8.4	20
Acenaphthylene	7.460001	6.483015	-13.1	20
Acenaphthene	4.845007	4.110963	-15.2	20
Fluorene	5.074137	4.522879	-10.9	20
Phenanthrene	6.753278	6.216779	-7.9	20
Anthracene	7.709496	6.198325	-19.6	20
Fluoranthene	7.305509	6.294186	-13.8	20
Pyrene	7.652392	6.590944	-13.9	20
Benzo (a) anthracene	5.896059	5.013844	-15.0	20
Chrysene	6.7393	5.769109	-14.4	20

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S605292				
<u>Calibration Check (S605292-CCV2)</u>				
Benzo (b) fluoranthene	6.035965	5.5179	-8.6	20
Benzo (k) fluoranthene	6.638118	5.71247	-13.9	20
Benzo (a) pyrene	5.579656	4.503427	-16.7	20
Indeno (1,2,3-cd) pyrene	6.366253	5.213377	-16.8	20
Dibenzo (a,h) anthracene	5.317723	4.675918	-14.1	20
Benzo (g,h,i) perylene	5.394442	4.761396	-10.6	20
n-Nonane (C9)	205747.8	171724.5	-16.5	25
n-Decane	204813.1	176284.4	-13.9	25
n-Dodecane	203877.7	167628.2	-17.8	25
n-Tetradecane	201712.1	161426.5	-20.0	25
n-Hexadecane	195278.5	156526.9	-19.8	25
n-Octadecane	187431.2	150493.1	-19.7	25
n-Nonadecane	181249.4	148854.5	-17.9	25
n-Eicosane	176548	144372.7	-18.2	25
n-Docosane	168319.2	149138.7	-11.4	25
n-Tetracosane	163462.3	133438.5	-18.4	25
n-Hexacosane	158574.7	138113.9	-12.9	25
n-Octacosane	158586.1	137030.2	-13.6	25
n-Triacontane	158880.7	134202.3	-15.5	25
n-Hexatriacontane	159740.7	130215.1	-18.5	25
Naphthalene (aliphatic fraction)	247081.9			
2-Methylnaphthalene (aliphatic fraction)	252288.7			

Notes and Definitions

QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN-OF-CUSTODY RECORD

WorkOrder : R0530

Project: Lawrence, MA site

Report Type : LEVEL 2

Purchase Order : R0530

Due Date : 6/24/2016

FAX Due Date :

Report To : Edward A Lawler

EDD Types :

Requested Test

Invoice To:

Eurofins Spectrum Analytical, Inc.

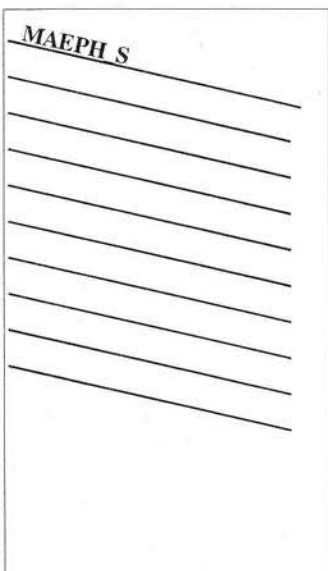
2425 New Holland Pike

Lancaster, PA 17601

Attention: Accounts Payable

AccountsPayable@EurofinsUS.com

Please generate a Little PEL EDD



EQUIFacilityCode: N/A

Phone: (413) 789-9018

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/M/MS/MSD	Milkem Sample ID
MS-02-0203	06/10/2016 08:05	1	Soil		R0530-02B
SC225600-01					

1) MAEPH_S, MA EPH BY GC-FID

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: Needs MA-MCP form with data report.

1.411016.41101

Relinquished by:	<i>[Signature]</i>	Date/Time	06/15/2016
Relinquished by:	<i>[Signature]</i>	Date/Time	06/15/2016
Received by:	<i>[Signature]</i>	Date/Time	06/15/2016
Received by:	<i>[Signature]</i>	Date/Time	06/15/2016

646 Camp Ave * North Kingstown * RI * 02852-4008 * 401-732-3400 * 401-732-3499
www.EurofinsUS.com/Spectrum

[X] REF

SC22560004

Eurofins Spectrum Analytical, Inc. -- ESAI-RI

WorkOrder: R0530

Client ID: NOBIS

Project: Lawrence, MA site

WO Name: Lawrence, MA site

Location: LAWRENCE,

Comments: Needs MA-MCP form with data report.

Case:

SDG:

PO: 16-80108.04-001

HC Due: 06/24/16

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: EQUIIS_4_EFW_Labs
MP

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
R0530-01A	MS-02-0102	06/10/2016 08:00	06/14/2016	Soil	PMoist	/					P2
R0530-01A	MS-02-0102	06/10/2016 08:00	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-01A	MS-02-0102	06/10/2016 08:00	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-01A	MS-02-0102	06/10/2016 08:00	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-02A	MS-02-0203	06/10/2016 08:05	06/14/2016	Soil	PMoist	/					P2
R0530-02A	MS-02-0203	06/10/2016 08:05	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-02A	MS-02-0203	06/10/2016 08:05	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-02A	MS-02-0203	06/10/2016 08:05	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-02A	MS-02-0203	06/10/2016 08:05	06/14/2016	Soil	SW8270_S	/ 8270_PAH,				Y	P2
R0530-02B	MS-02-0203	06/10/2016 08:05	06/14/2016	Soil	MAEPH_S	/ SPECTRUM--Sub to Agawam					SUB
R0530-03A	NPA-07-0.502	06/10/2016 08:15	06/14/2016	Soil	PMoist	/					P2
R0530-03A	NPA-07-0.502	06/10/2016 08:15	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-03A	NPA-07-0.502	06/10/2016 08:15	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-03A	NPA-07-0.502	06/10/2016 08:15	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-03A	NPA-07-0.502	06/10/2016 08:15	06/14/2016	Soil	SW8270_S	/ 8270_PAH,				Y	P2
R0530-04A	NPA-07-0203	06/10/2016 08:20	06/14/2016	Soil	PMoist	/					P2
R0530-04A	NPA-07-0203	06/10/2016 08:20	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-04A	NPA-07-0203	06/10/2016 08:20	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-04A	NPA-07-0203	06/10/2016 08:20	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-05A	MS-03-0102	06/10/2016 08:45	06/14/2016	Soil	PMoist	/					P2
R0530-05A	MS-03-0102	06/10/2016 08:45	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-05A	MS-03-0102	06/10/2016 08:45	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-05A	MS-03-0102	06/10/2016 08:45	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Edwards Spectrum Analytical, Inc. -- ESAI-RI

WorkOrder: R0530

Client ID: NOBIS

Project: Lawrence, MA site

WO Name: Lawrence, MA site

Location: LAWRENCE,

Comments: Needs MA-MCP form with data report.

Case:

SDG:

PO: 16-80108.04-001

HC Due: 06/24/16

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: EQUIIS_4_EFW_Labs
MP

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
R0530-06A	MS-03-0203	06/10/2016 08:50	06/14/2016	Soil	PMoist	/					P2
R0530-06A	MS-03-0203	06/10/2016 08:50	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-06A	MS-03-0203	06/10/2016 08:50	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-06A	MS-03-0203	06/10/2016 08:50	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-07A	MS-01-0102	06/10/2016 09:05	06/14/2016	Soil	PMoist	/					P2
R0530-07A	MS-01-0102	06/10/2016 09:05	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-07A	MS-01-0102	06/10/2016 09:05	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-07A	MS-01-0102	06/10/2016 09:05	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-08A	MS-01-0203	06/10/2016 09:10	06/14/2016	Soil	PMoist	/					P2
R0530-08A	MS-01-0203	06/10/2016 09:10	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-08A	MS-01-0203	06/10/2016 09:10	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-08A	MS-01-0203	06/10/2016 09:10	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-08A	MS-01-0203	06/10/2016 09:10	06/14/2016	Soil	SW8270_S	/ 8270_PAH,				Y	P2
R0530-09A	MS-01-1213	06/10/2016 09:15	06/14/2016	Soil	SW8260_LOW_S	/				Y	VOA
R0530-09B	MS-01-1213	06/10/2016 09:15	06/14/2016	Soil	SW8260_MED_S	/		Y		Y	VOA
R0530-10A	NPA-06-0.502	06/10/2016 10:00	06/14/2016	Soil	PMoist	/					P2
R0530-10A	NPA-06-0.502	06/10/2016 10:00	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-10A	NPA-06-0.502	06/10/2016 10:00	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-10A	NPA-06-0.502	06/10/2016 10:00	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-10A	NPA-06-0.502	06/10/2016 10:00	06/14/2016	Soil	SW8270_S	/ 8270_PAH,				Y	P2
R0530-11A	NPA-06-0203	06/10/2016 10:05	06/14/2016	Soil	PMoist	/					P2
R0530-11A	NPA-06-0203	06/10/2016 10:05	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-11A	NPA-06-0203	06/10/2016 10:05	06/14/2016	Soil	SW7471	/ RCRA8					P2

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESAI-RI

WorkOrder: R0530

Client ID: NOBIS

Project: Lawrence, MA site

WO Name: Lawrence, MA site

Location: LAWRENCE,

Comments: Needs MA-MCP form with data report.

Case:

SDG:

PO: 16-80108.04-001

HC Due: 06/24/16

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: EQUIS_4_EFW_Labs
MP

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
R0530-11A	NPA-06-0203	06/10/2016 10:05	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268					Y P2
R0530-12A	NPA-05-0.502	06/10/2016 10:10	06/14/2016	Soil	PMoist	/					P2
R0530-12A	NPA-05-0.502	06/10/2016 10:10	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-12A	NPA-05-0.502	06/10/2016 10:10	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-12A	NPA-05-0.502	06/10/2016 10:10	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-12A	NPA-05-0.502	06/10/2016 10:10	06/14/2016	Soil	SW8270_S	/ 8270_PAH,				Y	P2
R0530-13A	NPA-05-0203	06/10/2016 10:15	06/14/2016	Soil	PMoist	/					P2
R0530-13A	NPA-05-0203	06/10/2016 10:15	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-13A	NPA-05-0203	06/10/2016 10:15	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-13A	NPA-05-0203	06/10/2016 10:15	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-14A	NPA-04-0.502	06/10/2016 10:20	06/14/2016	Soil	PMoist	/					P2
R0530-14A	NPA-04-0.502	06/10/2016 10:20	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-14A	NPA-04-0.502	06/10/2016 10:20	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-14A	NPA-04-0.502	06/10/2016 10:20	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-15A	NPA-04-0203	06/10/2016 10:25	06/14/2016	Soil	PMoist	/					P2
R0530-15A	NPA-04-0203	06/10/2016 10:25	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-15A	NPA-04-0203	06/10/2016 10:25	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-15A	NPA-04-0203	06/10/2016 10:25	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-15A	NPA-04-0203	06/10/2016 10:25	06/14/2016	Soil	SW8270_S	/ 8270_PAH,				Y	P2
R0530-16A	NPA-03-0.502	06/10/2016 10:40	06/14/2016	Soil	PMoist	/					P2
R0530-16A	NPA-03-0.502	06/10/2016 10:40	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-16A	NPA-03-0.502	06/10/2016 10:40	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-16A	NPA-03-0.502	06/10/2016 10:40	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-16A	NPA-03-0.502	06/10/2016 10:40	06/14/2016	Soil	SW8270_S	/ 8270_PAH,				Y	P2

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Carofins Spectrum Analytical, Inc. -- ESAI-RI

WorkOrder: R0530

Client ID: NOBIS

Project: Lawrence, MA site

WO Name: Lawrence, MA site

Location: LAWRENCE,

Comments: Needs MA-MCP form with data report.

Case:

SDG:

PO: 16-80108.04-001

HC Due: 06/24/16

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: EQUIS_4_EFW_Labs
MP

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
R0530-17A	NPA-03-0203	06/10/2016 10:45	06/14/2016	Soil	PMoist	/					P2
R0530-17A	NPA-03-0203	06/10/2016 10:45	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-17A	NPA-03-0203	06/10/2016 10:45	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-17A	NPA-03-0203	06/10/2016 10:45	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-18A	NPA-01-0.502	06/10/2016 10:55	06/14/2016	Soil	PMoist	/					P2
R0530-18A	NPA-01-0.502	06/10/2016 10:55	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-18A	NPA-01-0.502	06/10/2016 10:55	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-18A	NPA-01-0.502	06/10/2016 10:55	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-18A	NPA-01-0.502	06/10/2016 10:55	06/14/2016	Soil	SW8270_S	/ 8270_PAH,				Y	P2
R0530-19A	NPA-01-0203	06/10/2016 11:00	06/14/2016	Soil	PMoist	/					P2
R0530-19A	NPA-01-0203	06/10/2016 11:00	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-19A	NPA-01-0203	06/10/2016 11:00	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-19A	NPA-01-0203	06/10/2016 11:00	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-20A	NPA-02-0.502	06/10/2016 11:20	06/14/2016	Soil	PMoist	/					P2
R0530-20A	NPA-02-0.502	06/10/2016 11:20	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-20A	NPA-02-0.502	06/10/2016 11:20	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-20A	NPA-02-0.502	06/10/2016 11:20	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-21A	NPA-02-0203	06/10/2016 11:25	06/14/2016	Soil	PMoist	/					P2
R0530-21A	NPA-02-0203	06/10/2016 11:25	06/14/2016	Soil	SW6010_S	/ RCRA8				Y	P2
R0530-21A	NPA-02-0203	06/10/2016 11:25	06/14/2016	Soil	SW7471	/ RCRA8					P2
R0530-21A	NPA-02-0203	06/10/2016 11:25	06/14/2016	Soil	SW8082_S	/ Incl. Ar1262, Ar1268				Y	P2
R0530-22A	NPA-02-0607	06/10/2016 11:30	06/14/2016	Soil	SW8260_LOW_S	/				Y	VOA
R0530-22B	NPA-02-0607	06/10/2016 11:30	06/14/2016	Soil	SW8260_MED_S	/		Y		Y	VOA

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Client ID: NOBIS

Project: Lawrence, MA site

WO Name: Lawrence, MA site

Location: LAWRENCE,

Comments: Needs MA-MCP form with data report.

Case:

SDG:

PO: 16-80108.04-001

HC Due: 06/24/16

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: EQUIIS_4_EFW_Labs
MP

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
R0530-23A	TB-01	06/10/2016 08:00	06/14/2016	Soil	SW8260_LOW_S	/				Y	VOA
R0530-23B	TB-01	06/10/2016 08:00	06/14/2016	Soil	SW8260_MED_S	/		Y		Y	VOA

CHAIN OF CUSTODY RECORD

Spectrum Analytical

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
 Min. 24-hr notification needed for rushes
 Samples disposed after 60 days unless otherwise instructed.

Page 1 of 3

Report To: NOBIS ENGINEERING Invoice To: _____

Project No.: 80108.04 Site Name: LAWRENCE TBA

Telephone #: _____ Location: LAWRENCE State: MA

Project Mgr: A. ROY / S. VETEARE Sampler(s): E.H.J., A.G.

P.O. No.: _____ Quote #: _____

F=Field Filtered I=N₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂O 11=MCOH 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

Lab ID:	Sample ID:	Date:	Time:	Containers			Analysis	Check if chlorinated	QA/QC Reporting Notes: * additional charges may apply
				# of VOA Vials	# of Amber Glass	# of Clear Glass			
	MS-02-0102	6/10/16	800	1			PCBs, PAHs, EPH, VOCs		
	MS-02-0203		805	2					
	NPA-07-0.502		815	2					
	NPA-07-0203		820	1					
	MS-03-0102		845	1					
	MS-03-0203		850	1					
	MS-01-0102		905	1					
	MS-01-0203		910	2					
	MS-01-1213		915	3					
	NPA-06-0.502		1000	2					

Relinquished by: [Signature] Received by: [Signature] Date: 6/10/16 Time: 10:25 Temp °C: 1.4

Page 1 of 1

Condition upon receipt: Custody Seals: Present Intact Broken
 Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
 Min. 24-hr notification needed for rushes
 Samples disposed after 60 days unless otherwise instructed.

Report To: <u>NOBIS ENGINEERING</u> Telephone #: _____ Project Mgr: <u>A. ROY / S. VETERE</u>	Invoice To: _____ P.O. No.: _____ Quote #: _____	Project No: <u>80108.01</u> Site Name: <u>LAWRENCE TBA</u> Location: <u>LAWRENCE</u> State: <u>MA</u> Sampler(s): <u>EJ</u> <u>AG</u>	QA/QC Reporting Notes: * additional charges may apply MA DEP MCP CAM Report? <input type="checkbox"/> Yes <input type="checkbox"/> No CT DPH RCP Report? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> DQA* <input type="checkbox"/> ASP A* <input type="checkbox"/> ASP B* <input type="checkbox"/> NO Reduced* <input type="checkbox"/> NJ Full* <input type="checkbox"/> Tier II* <input type="checkbox"/> Tier IV* <input type="checkbox"/> Other: _____ State-specific reporting standards: _____
List Preservative Code below:			
Analysis			
# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
Matrix Type	Date	Time	Temp °C
G= Grab C= Composite	Date	Time	Observed Corrected
Lab ID:	Sample ID:	Date:	Time:
Relinquished by:	Received by:	Date:	Time:
Page 120 of 128	Condition upon receipt: <input type="checkbox"/> Ambient <input type="checkbox"/> Iced <input checked="" type="checkbox"/> Refrigerated <input type="checkbox"/> Present <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> Ambient <input type="checkbox"/> Iced <input checked="" type="checkbox"/> Refrigerated <input type="checkbox"/> Present <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> Ambient <input type="checkbox"/> Iced <input checked="" type="checkbox"/> Refrigerated <input type="checkbox"/> Present <input type="checkbox"/> Intact <input type="checkbox"/> Broken		

CHAIN OF CUSTODY RECORD

Spectrum Analytical

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Nobis ENGINEERING Invoice To: _____ Project No: 80108.04

Telephone #: _____ Site Name: LAWRENCE TBA State: MA

Project Mgr: A. ROY / S. VETTERE P.O. No.: _____ Location: LAWRENCE

Sampler(s): EJ AG

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11=MEOH 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

Lab ID	Sample ID	Date	Time	Type	Matrix	Containers				Analysis	Check if chlorinated	QA/QC Reporting Notes: * additional charges may apply		
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic					
NPA-02-0203		6/10/16	1125	G	SO	1				X PLBS	X RAA 8 METALS	X VCS		
NPA-02-0607		↓	1130	↓	↓	3								
TB-01		6/10/16	0800	↓	↓	2								

MA DEP MCP CAM Report? Yes No
 CT DPH RCP Report? Yes No
 Standard No QC
 ASP A* ASP B*
 NJ Reduced* NJ Full*
 Tier II* Tier IV*
 Other: _____
 State-specific reporting standards: _____

Relinquished by: _____ Received by: Nobis fridge Date: 6/11/16 Time: 16:35 Temp °C: 1.4

Signature: [Signature] Signature: [Signature] Date: 6/13/16 Time: 1314 Observed: 1.4

Signature: [Signature] Signature: [Signature] Date: 6/13/16 Time: 11:03 Corrected: 0

Signature: [Signature] Signature: [Signature] Date: 6/13/16 Time: 11:03 IR ID #: 01

Condition upon receipt: Custody Seals: Present Intact Broken
 Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen

Received By: <u>SP</u>		Page 01 of 01							
Reviewed By: <u>KP</u>		Log-in Date 06/14/2016							
Work Order: R0530		Client Name: Nobis Engineering, Inc							
Project Name/Event: Lawrence, MA site									
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.									
		Lab Sample ID	Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
			HNO3	H2SO4	HCl	NaOH	H3PO4		
1. Custody Seal(s)	Present / Absent	R0530-01							
	Intact / Broken	R0530-02							
2. Custody Seal Nos.	N/A	R0530-03							
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent	R0530-04							
		R0530-05							
		R0530-06							
		R0530-07							
4. Airbill	AirBill / Sticker	R0530-08							
	Present / Absent	R0530-09						F/M	
5. Airbill No.	Courier N/A	R0530-10							
		R0530-11							
6. Sample Tags	Present / Absent	R0530-12							
Sample Tag Numbers	Listed /	R0530-13							
	Not Listed on Chain-of-Custody	R0530-14							
		R0530-15							
		R0530-16							
7. Sample Condition	Intact / Broken / Leaking	R0530-17							
		R0530-18							
		R0530-19							
8. Cooler Temperature Indicator Bottle	Present / Absent	R0530-20							
		R0530-21							
		R0530-22						F/M	
		R0530-23						F/M	
9. Cooler Temperature	2.0 °C								
10. Does information on TR/COCs and sample tags agree?	Yes / No								
11. Date Received at Laboratory	06/14/2016								
12. Time Received	11:03								
Sample Transfer									
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO								
Area #	Area #								
By	By								
On	On								
IR Temp Gun ID: MT-74		VOA Matrix Key:							
Coolant Condition: ICE		US = Unpreserved Soil A = Air							
Preservative Name/Lot No:		UA = Unpreserved Aqueous H = HCl							
		M = MeOH E = Encore							
		N = NaHSO4 F = Freeze							
		See Sample Condition Notification/Corrective Action Form Yes / No							

Last Page of Data Report



ANALYTICAL REPORT

Lab Number:	L1940717
Client:	Crede Associates, LLC 776 Main Street Westbrook, ME 04092
ATTN:	Sean Gannon
Phone:	(207) 828-1272
Project Name:	TOMBARELLO SITE
Project Number:	17001426
Report Date:	09/20/19

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
L1940717-24	SB-2 (2-3)	SOIL	LAWRENCE, MA	09/04/19 10:07	09/06/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-25	SB-2 (3-5)	SOIL	LAWRENCE, MA	09/04/19 10:15	09/06/19
L1940717-26	SB-2 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 10:20	09/06/19
L1940717-27	SB-2 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 10:20	09/06/19
L1940717-28	E-07 (1-2)	SOIL	LAWRENCE, MA	09/04/19 11:00	09/06/19
L1940717-29	E-07 (2-3)	SOIL	LAWRENCE, MA	09/04/19 11:03	09/06/19
L1940717-30	E-07 (3-5)	SOIL	LAWRENCE, MA	09/04/19 11:06	09/06/19
L1940717-31	E-07 (5-7)	SOIL	LAWRENCE, MA	09/04/19 11:09	09/06/19
L1940717-32	E-08 (1-2)	SOIL	LAWRENCE, MA	09/04/19 11:25	09/06/19
L1940717-33	E-08 (2-3)	SOIL	LAWRENCE, MA	09/04/19 11:30	09/06/19
L1940717-34	E-08 (3-5)	SOIL	LAWRENCE, MA	09/04/19 11:35	09/06/19
L1940717-35	E-08 (5-7)	SOIL	LAWRENCE, MA	09/04/19 11:40	09/06/19
L1940717-36	D-08 (1-2)	SOIL	LAWRENCE, MA	09/04/19 11:53	09/06/19
L1940717-37	D-08 (2-3)	SOIL	LAWRENCE, MA	09/04/19 11:56	09/06/19
L1940717-38	D-08 (3-5)	SOIL	LAWRENCE, MA	09/04/19 11:59	09/06/19
L1940717-39	D-08 (5-7)	SOIL	LAWRENCE, MA	09/04/19 12:03	09/06/19
L1940717-40	D-07 (1-2)	SOIL	LAWRENCE, MA	09/04/19 12:12	09/06/19
L1940717-41	D-07 (2-3)	SOIL	LAWRENCE, MA	09/04/19 12:14	09/06/19
L1940717-42	D-07 (3-5)	SOIL	LAWRENCE, MA	09/04/19 12:20	09/06/19
L1940717-43	D-07 (5-7)	SOIL	LAWRENCE, MA	09/04/19 12:25	09/06/19
L1940717-44	D-07 (1-3)	SOIL	LAWRENCE, MA	09/04/19 12:16	09/06/19
L1940717-45	D-07 (7-9)	SOIL	LAWRENCE, MA	09/04/19 12:30	09/06/19
L1940717-46	D-06 (1-2)	SOIL	LAWRENCE, MA	09/04/19 12:50	09/06/19
L1940717-47	D-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 12:53	09/06/19
L1940717-48	D-06 (3-5)	SOIL	LAWRENCE, MA	09/04/19 12:56	09/06/19
L1940717-49	D-06 (5-7)	SOIL	LAWRENCE, MA	09/04/19 12:59	09/06/19
L1940717-50	SB-DUP-5	SOIL	LAWRENCE, MA	09/04/19 00:00	09/06/19
L1940717-51	E-06 (1-2)	SOIL	LAWRENCE, MA	09/04/19 13:22	09/06/19
L1940717-52	E-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 13:26	09/06/19



Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-53	E-06 (3-5)	SOIL	LAWRENCE, MA	09/04/19 13:28	09/06/19
L1940717-54	E-06 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 13:35	09/06/19
L1940717-55	E-06 (1-3)	SOIL	LAWRENCE, MA	09/04/19 13:24	09/06/19
L1940717-56	E-06 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 13:35	09/06/19
L1940717-57	E-05 (1-2)	SOIL	LAWRENCE, MA	09/04/19 14:10	09/06/19
L1940717-58	E-05 (2-3)	SOIL	LAWRENCE, MA	09/04/19 14:12	09/06/19
L1940717-59	E-05 (3-5)	SOIL	LAWRENCE, MA	09/04/19 14:14	09/06/19
L1940717-60	E-05 (5-7)	SOIL	LAWRENCE, MA	09/04/19 14:16	09/06/19
L1940717-61	SB-DUP-6	SOIL	LAWRENCE, MA	09/04/19 00:00	09/06/19
L1940717-62	D-05 (1-2)	SOIL	LAWRENCE, MA	09/04/19 14:30	09/06/19
L1940717-63	D-05 (2-3)	SOIL	LAWRENCE, MA	09/04/19 14:33	09/06/19
L1940717-64	D-05 (3-5)	SOIL	LAWRENCE, MA	09/04/19 14:36	09/06/19
L1940717-65	D-05 (5-7)	SOIL	LAWRENCE, MA	09/04/19 14:39	09/06/19
L1940717-66	D-09 (1-2)	SOIL	LAWRENCE, MA	09/04/19 14:50	09/06/19
L1940717-67	D-09 (2-3)	SOIL	LAWRENCE, MA	09/04/19 14:53	09/06/19
L1940717-68	D-09 (3-5)	SOIL	LAWRENCE, MA	09/04/19 14:56	09/06/19
L1940717-69	D-09 (5-7)	SOIL	LAWRENCE, MA	09/04/19 14:59	09/06/19
L1940717-70	B-06 (1-2)	SOIL	LAWRENCE, MA	09/04/19 15:15	09/06/19
L1940717-71	B-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 15:18	09/06/19
L1940717-72	B-06 (3-5)	SOIL	LAWRENCE, MA	09/04/19 15:21	09/06/19
L1940717-73	B-06 (5-7)	SOIL	LAWRENCE, MA	09/04/19 15:24	09/06/19
L1940717-74	B-07 (1-2)	SOIL	LAWRENCE, MA	09/04/19 15:27	09/06/19
L1940717-75	B-07 (2-3)	SOIL	LAWRENCE, MA	09/04/19 15:29	09/06/19
L1940717-76	B-07 (3-5)	SOIL	LAWRENCE, MA	09/04/19 15:31	09/06/19
L1940717-77	B-07 (5-7)	SOIL	LAWRENCE, MA	09/04/19 15:33	09/06/19
L1940717-78	C-07 (1-2)	SOIL	LAWRENCE, MA	09/05/19 08:25	09/06/19
L1940717-79	C-07 (2-3)	SOIL	LAWRENCE, MA	09/05/19 08:30	09/06/19
L1940717-80	C-07 (3-5)	SOIL	LAWRENCE, MA	09/05/19 08:35	09/06/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-81	C-07 (5-7)	SOIL	LAWRENCE, MA	09/05/19 08:40	09/06/19
L1940717-82	A-07 (1-2)	SOIL	LAWRENCE, MA	09/05/19 08:53	09/06/19
L1940717-83	A-07 (2-3)	SOIL	LAWRENCE, MA	09/05/19 08:56	09/06/19
L1940717-84	A-07 (3-5)	SOIL	LAWRENCE, MA	09/05/19 08:59	09/06/19
L1940717-85	A-07 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:02	09/06/19
L1940717-86	C-08 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:08	09/06/19
L1940717-87	C-08 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:11	09/06/19
L1940717-88	C-08 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:14	09/06/19
L1940717-89	C-08 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:17	09/06/19
L1940717-90	SB-DUP-4	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-91	B-08 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:28	09/06/19
L1940717-92	B-08 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:30	09/06/19
L1940717-93	B-08 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:32	09/06/19
L1940717-94	B-08 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:34	09/06/19
L1940717-95	C-09 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:40	09/06/19
L1940717-96	C-09 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:42	09/06/19
L1940717-97	C-09 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:44	09/06/19
L1940717-98	C-09 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:46	09/06/19
L1940717-99	B-09 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:53	09/06/19
L1940717-100	SB-DUP-3	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-101	B-09 (1-3)	SOIL	LAWRENCE, MA	09/05/19 09:54	09/06/19
L1940717-102	B-09 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:55	09/06/19
L1940717-103	B-09 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:57	09/06/19
L1940717-104	B-09 (5-7)-1	SOIL	LAWRENCE, MA	09/05/19 09:59	09/06/19
L1940717-105	B-09 (5-7)-2	SOIL	LAWRENCE, MA	09/05/19 10:02	09/06/19
L1940717-106	A-06 (1-2)	SOIL	LAWRENCE, MA	09/05/19 10:33	09/06/19
L1940717-107	A-06 (2-3)	SOIL	LAWRENCE, MA	09/05/19 10:36	09/06/19
L1940717-108	A-06 (3-5)	SOIL	LAWRENCE, MA	09/05/19 10:39	09/06/19



Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-109	A-06 (5-7)	SOIL	LAWRENCE, MA	09/05/19 10:42	09/06/19
L1940717-110	SB-DUP-2	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-111	B-05 (1-2)	SOIL	LAWRENCE, MA	09/05/19 10:48	09/06/19
L1940717-112	B-05 (2-3)	SOIL	LAWRENCE, MA	09/05/19 10:51	09/06/19
L1940717-113	B-05 (1-3)	SOIL	LAWRENCE, MA	09/05/19 10:54	09/06/19
L1940717-114	B-05 (3-5)-1	SOIL	LAWRENCE, MA	09/05/19 10:57	09/06/19
L1940717-115	B-05 (3-5)-2	SOIL	LAWRENCE, MA	09/05/19 10:57	09/06/19
L1940717-116	B-05 (5-7)	SOIL	LAWRENCE, MA	09/05/19 11:00	09/06/19
L1940717-117	C-05 (1-2)	SOIL	LAWRENCE, MA	09/05/19 11:12	09/06/19
L1940717-118	C-05 (2-3)	SOIL	LAWRENCE, MA	09/05/19 11:15	09/06/19
L1940717-119	C-05 (3-5)	SOIL	LAWRENCE, MA	09/05/19 11:18	09/06/19
L1940717-120	C-05 (5-7)	SOIL	LAWRENCE, MA	09/05/19 11:21	09/06/19
L1940717-121	C-06 (1-2)	SOIL	LAWRENCE, MA	09/05/19 11:32	09/06/19
L1940717-122	C-06 (2-3)	SOIL	LAWRENCE, MA	09/05/19 11:34	09/06/19
L1940717-123	C-06 (3-5)	SOIL	LAWRENCE, MA	09/05/19 11:36	09/06/19
L1940717-124	C-06 (5-7)	SOIL	LAWRENCE, MA	09/05/19 11:38	09/06/19
L1940717-125	A-05 (1-2)	SOIL	LAWRENCE, MA	09/05/19 12:12	09/06/19
L1940717-126	A-05 (2-3)	SOIL	LAWRENCE, MA	09/05/19 12:14	09/06/19
L1940717-127	A-05 (3-5)	SOIL	LAWRENCE, MA	09/05/19 12:16	09/06/19
L1940717-128	A-05 (5-7)	SOIL	LAWRENCE, MA	09/05/19 12:18	09/06/19
L1940717-129	E-02 (1-2)	SOIL	LAWRENCE, MA	09/05/19 13:05	09/06/19
L1940717-130	E-02 (2-3)	SOIL	LAWRENCE, MA	09/05/19 13:08	09/06/19
L1940717-131	E-02 (3-5)	SOIL	LAWRENCE, MA	09/05/19 13:11	09/06/19
L1940717-132	E-02 (5-7)	SOIL	LAWRENCE, MA	09/05/19 13:14	09/06/19
L1940717-133	B-04 (1-2)	SOIL	LAWRENCE, MA	09/05/19 13:20	09/06/19
L1940717-134	B-04 (2-3)	SOIL	LAWRENCE, MA	09/05/19 13:23	09/06/19
L1940717-135	B-04 (3-5)	SOIL	LAWRENCE, MA	09/05/19 13:26	09/06/19
L1940717-136	B-04 (5-7)	SOIL	LAWRENCE, MA	09/05/19 13:29	09/06/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-137	SB-1 (0-0.5)	SOIL	LAWRENCE, MA	09/05/19 13:33	09/06/19
L1940717-138	SB-1 (1-2)	SOIL	LAWRENCE, MA	09/05/19 13:36	09/06/19
L1940717-139	SB-1 (2-3)	SOIL	LAWRENCE, MA	09/05/19 13:39	09/06/19
L1940717-140	SB-DUP-1	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-141	SB-1 (3-5)	SOIL	LAWRENCE, MA	09/05/19 13:42	09/06/19
L1940717-142	SB-1 (5-7)-1	SOIL	LAWRENCE, MA	09/05/19 13:45	09/06/19
L1940717-143	SB-1 (5-7)-2	SOIL	LAWRENCE, MA	09/05/19 13:48	09/06/19
L1940717-144	TRIP BLANK	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19

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MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	NO
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



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Case Narrative

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

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

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

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

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

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

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Case Narrative (continued)

Report Submission

September 20, 2019: This final report includes the results of all requested analyses.

September 17, 2019: This is a preliminary report.

MCP Related Narratives

Sample Receipt

In reference to question A:

L1940717-11, -12, -15, -17, -18, -21, -23, -24, -27, -44, -45, -50, -55, and -56: The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

Volatile Organics

L1940717-15, -27, -44, -138, and -143 were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

In reference to question G:

L1940717-12, -50, and -113: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1940717-23: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (33%) and the surrogate recovery for 1,2-dichloroethane-d4 (141%) were outside the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (34%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

The initial calibration, associated with L1940717-11, -12, -18, -27, -44, -45, -50, -55, -56, -101, -105, -

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Case Narrative (continued)

113, -115, -138, -139, -140, and -143 did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.0034), as well as the average response factor for 1,4-dioxane. The initial calibration, associated with L1940717-15, -17, -21, -23, and -24 did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0798) and 1,4-dioxane (0.0013), as well as the average response factor for 4-methyl-2-pentanone and 1,4-dioxane. In addition, the initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (175%). The continuing calibration standards, associated with L1940717-11, -12, -15, -17, -18, -21, -23, -24, -27, -44, -45, -50, -55, -56, -101, -105, -113, -115, -138, -139, -140, and -143, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

EPH

In reference to question G:

L1940717-17, -18, -21, -23, -27, -44, -50, -55, -56, -101, -105, -113, -138, -139, and -140: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1940717-27, -44, and -56: The surrogate recoveries are below the acceptance criteria for chlorooctadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L1940717-50: The surrogate recovery is outside the acceptance criteria for o-terphenyl (250%); however, the sample was not re-extracted due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report.

PCBs

L1940717-15: The sample has elevated detection limits due to limited sample volume available for analysis.

In reference to question G:

L1940717-16, -32, -40, -51, -57, -61, -66, -67, -86, -99, -100, -102, -105, -111, and -117: One or more

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Case Narrative (continued)

of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1940717-02, -32, -40, -51, -57, -61, -66, -67, -86, -99, and -100: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total Metals

In reference to question H:

The WG1284380-4/-5 MS/MSD recoveries, performed on L1940717-23, are outside the acceptance criteria for barium (65%/61%) and zinc (MSD 144%). Re-analysis of the MS yielded unacceptable recoveries for barium and zinc in the range of 30-74% or >125%. The LCS recoveries were within acceptance criteria for these analytes; therefore, no further action was taken.

The WG1284380-4/-5 MS/MSD recoveries, performed on L1940717-23, are outside the acceptance criteria for chromium (MSD 0%) and lead (0%/0%). Re-analysis of the MS yielded unacceptable recoveries for chromium and lead of <30%. The MS % recoveries are <30%, but the sample detections are above the RL. The LCS recoveries are acceptable; therefore, no further action was taken. The MS/MSD RPD for chromium (42%) is above the acceptance criteria.

The WG1284380-7/-8 MS/MSD recoveries, performed on L1940717-113, are outside the acceptance criteria for chromium (MS 70%), lead (46%/140%), and zinc (818%/64%). Re-analysis of the MS yielded unacceptable recoveries for chromium, lead, and zinc in the range of 30-74% or >125%. The LCS recoveries were within acceptance criteria for these analytes; therefore, no further action was taken. The MS/MSD RPD for zinc (77%) is above the acceptance criteria.

The WG1284469-5 MSD recovery, performed on L1940717-139, is outside the acceptance criteria for mercury (141%). Re-analysis of the MSD yielded an unacceptable recovery for mercury in the range of 30-74% or >125%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

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The WG1284649-4/-5 MS/MSD recoveries, performed on L1940717-139, are outside the acceptance criteria for arsenic (149%/149%). Re-analysis of the MS yielded an unacceptable recovery for arsenic in the range of >125%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

The WG1284380-6 serial dilution analysis, associated with L1940717-23, had a %D above the acceptance criteria for barium (22%), lead (30%), and zinc (28%).

The WG1284380-9 serial dilution analysis, associated with L1940717-113, had a %D above the acceptance criteria for lead (26%) and zinc (28%).

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

Chromium, Hexavalent


LCS/LCSD SRM Lot#: ERA D101-192

In reference to question A:

L1940717-11, -12, -15, -17, -18, -21, -23, -24, -27, -44, -45, -50, -55, -56, -101, -105, -113, -115, -138, -139, -140, and -143: The analyses of pH and ORP were performed beyond the required 24hr holding time specified per the Sample Collection, Preservation, and Handling Procedures for Hexavalent Chromium (Cr(VI)) by WSC-CAM-VI B.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 09/20/19

QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE
Project Number: 17001426

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Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 High - Westborough Lab								
8260C	Batch QC	WG1284521-3	Dichlorodifluoromethane	LCS	141	70-130	15	potential high bias
8260C	Batch QC	WG1284521-4	Dichlorodifluoromethane	LCSD	137	70-130	15	potential high bias
8260C	Batch QC	WG1284780-4	Acetone	LCSD	134	70-130	44	potential high bias
8260C	Batch QC	WG1284929-3	Chloromethane	LCS	137	70-130	138,143	potential high bias
8260C	Batch QC	WG1284929-3	Acetone	LCS	133	70-130	138,143	potential high bias
8260C	Batch QC	WG1284929-4	Chloromethane	LCSD	138	70-130	138,143	potential high bias
8260C	Batch QC	WG1284929-4	Acetone	LCSD	137	70-130	138,143	potential high bias
MCP Volatile Organics by EPA 5035 Low - Westborough Lab								
8260C	SB-2 (1-2)	L1940717-23	1,2-Dichloroethane-d4	Surrogate	141	70-130	-	potential high bias
8260C	Batch QC	WG1284397-3	Trichlorofluoromethane	LCS	132	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-3	1,2-Dichloroethane	LCS	135	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-3	Chloromethane	LCS	133	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-3	Dichlorodifluoromethane	LCS	152	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-4	1,2-Dichloroethane	LCSD	132	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-4	Chloromethane	LCSD	131	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-4	Dichlorodifluoromethane	LCSD	148	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284519-3	Dichlorodifluoromethane	LCS	141	70-130	21,23-24	potential high bias
8260C	Batch QC	WG1284519-4	Dichlorodifluoromethane	LCSD	137	70-130	21,23-24	potential high bias
8260C	Batch QC	WG1284781-4	Acetone	LCSD	134	70-130	18,105,140	potential high bias
Extractable Petroleum Hydrocarbons - Westborough Lab								
EPH-04-1.1	SB-2 (5-7)-2	L1940717-27 D	Chloro-Octadecane	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	SB-2 (5-7)-2	L1940717-27 D	o-Terphenyl	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	D-07 (1-3)	L1940717-44 D	Chloro-Octadecane	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	D-07 (1-3)	L1940717-44 D	o-Terphenyl	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	SB-DUP-5	L1940717-50 D	o-Terphenyl	Surrogate	250	40-140	-	potential high bias
EPH-04-1.1	E-06 (5-7)-2	L1940717-56 D	Chloro-Octadecane	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	E-06 (5-7)-2	L1940717-56 D	o-Terphenyl	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	Batch QC	WG1283558-3	C9-C18 Aliphatics	LCSD	27	25	45,50,55-56,143	non-directional bias

QC OUTLIER SUMMARY REPORT

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Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
EPH-04-1.1	Batch QC	WG1283558-3	Naphthalene	LCSD	29	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	2-Methylnaphthalene	LCSD	28	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Acenaphthylene	LCSD	27	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Acenaphthene	LCSD	27	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Nonane (C9)	LCSD	33	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Decane (C10)	LCSD	31	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Dodecane (C12)	LCSD	31	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Tetradecane (C14)	LCSD	30	25	45,50,55-56,143	non-directional bias
MCP Polychlorinated Biphenyls - Westborough Lab								
8082A	AS-6	L1940717-02 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	AS-6	L1940717-02 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	AS-6	L1940717-02 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	AS-6	L1940717-02 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (2-3)	L1940717-102 D	Decachlorobiphenyl (B)	Surrogate	181	30-150	-	potential high bias
8082A	B-09 (5-7)-2	L1940717-105 D	Decachlorobiphenyl (B)	Surrogate	167	30-150	-	potential high bias
8082A	A-05 (2-3)	L1940717-126	Decachlorobiphenyl (B)	Surrogate	158	30-150	-	potential high bias
8082A	SB-4 (5-7)-2	L1940717-15	Decachlorobiphenyl (A)	Surrogate	27	30-150	-	potential low bias
8082A	E-08 (1-2)	L1940717-32 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-08 (1-2)	L1940717-32 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-08 (1-2)	L1940717-32 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-08 (1-2)	L1940717-32 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --

QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8082A	D-07 (1-2)	L1940717-40 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-07 (1-2)	L1940717-40 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-07 (1-2)	L1940717-40 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-07 (1-2)	L1940717-40 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (2-3)	L1940717-52	Decachlorobiphenyl (B)	Surrogate	163	30-150	-	potential high bias
8082A	E-05 (1-2)	L1940717-57 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-05 (1-2)	L1940717-57 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-05 (1-2)	L1940717-57 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-05 (1-2)	L1940717-57 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --

QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8082A	C-08 (2-3)	L1940717-87	Decachlorobiphenyl (B)	Surrogate	153	30-150	-	potential high bias
8082A	SB-DUP-4	L1940717-90	Decachlorobiphenyl (B)	Surrogate	158	30-150	-	potential high bias
8082A	B-09 (1-2)	L1940717-99 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (1-2)	L1940717-99 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (1-2)	L1940717-99 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (1-2)	L1940717-99 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
MCP Total Metals - Mansfield Lab								
6010D	Batch QC (L1940717-23)	WG1284380-4	Barium, Total	MS	65	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-4	Lead, Total	MS	0	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Barium, Total	MSD	61	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Chromium, Total	MSD	0	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias

QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
6010D	Batch QC (L1940717-23)	WG1284380-5	Chromium, Total	MSD	42	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Lead, Total	MSD	0	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Zinc, Total	MSD	144	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential high bias
6010D	Batch QC (L1940717-23)	WG1284380-6	Barium, Total	SERDIL	22	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-23)	WG1284380-6	Lead, Total	SERDIL	30	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-23)	WG1284380-6	Zinc, Total	SERDIL	28	35	11-12,15,17-	non-directional bias

QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
6010D	Batch QC (L1940717-113)	WG1284380-7	Chromium, Total	MS	70	75-125	18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-113)	WG1284380-7	Lead, Total	MS	46	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-113)	WG1284380-7	Zinc, Total	MS	818	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential high bias
6010D	Batch QC (L1940717-113)	WG1284380-8	Lead, Total	MSD	140	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential high bias
6010D	Batch QC (L1940717-113)	WG1284380-8	Zinc, Total	MSD	64	75-125	11-12,15,17-18,21,23-24,27,44-	potential low bias

QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
6010D	Batch QC (L1940717-113)	WG1284380-8	Zinc, Total	MSD	77	35	45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-113)	WG1284380-9	Lead, Total	SERDIL	26	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-113)	WG1284380-9	Zinc, Total	SERDIL	28	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-139)	WG1284649-4	Arsenic, Total	MS	149	75-125	139,143	potential high bias
6010D	Batch QC (L1940717-139)	WG1284649-5	Arsenic, Total	MSD	149	75-125	139,143	potential high bias
7471B	Batch QC (L1940717-139)	WG1284469-5	Mercury, Total	MSD	141	75-125	139	potential high bias



ORGANICS

VOLATILES

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
 Client ID: SB-4 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 20:33
 Analyst: NLK
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.74	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	0.74	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	--	1
Tetrachloroethene	ND		ug/kg	0.37	--	1
Chlorobenzene	ND		ug/kg	0.37	--	1
Trichlorofluoromethane	ND		ug/kg	3.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	--	1
Bromodichloromethane	ND		ug/kg	0.37	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.37	--	1
1,1-Dichloropropene	ND		ug/kg	0.37	--	1
Bromoform	ND		ug/kg	3.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Benzene	ND		ug/kg	0.37	--	1
Toluene	ND		ug/kg	0.74	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	3.0	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	0.74	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
Client ID: SB-4 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.37	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	0.74	--	1
Xylenes, Total	ND		ug/kg	0.74	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	1.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.5	--	1
Styrene	ND		ug/kg	0.74	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	100		ug/kg	7.4	--	1
Carbon disulfide	ND		ug/kg	7.4	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	1.5	--	1
Tetrahydrofuran	ND		ug/kg	3.0	--	1
2,2-Dichloropropane	ND		ug/kg	1.5	--	1
1,2-Dibromoethane	ND		ug/kg	0.74	--	1
1,3-Dichloropropane	ND		ug/kg	1.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Bromobenzene	ND		ug/kg	1.5	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	1.5	--	1
o-Chlorotoluene	ND		ug/kg	1.5	--	1
p-Chlorotoluene	ND		ug/kg	1.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	3.0	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	3.0	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
 Client ID: SB-4 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	--	1
Diethyl ether	ND		ug/kg	1.5	--	1
Diisopropyl Ether	ND		ug/kg	1.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.5	--	1
1,4-Dioxane	ND		ug/kg	60	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
 Client ID: SB-4 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 19:20
 Analyst: NLK
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	260	--	1
1,1-Dichloroethane	ND		ug/kg	52	--	1
Chloroform	ND		ug/kg	78	--	1
Carbon tetrachloride	ND		ug/kg	52	--	1
1,2-Dichloropropane	ND		ug/kg	52	--	1
Dibromochloromethane	ND		ug/kg	52	--	1
1,1,2-Trichloroethane	ND		ug/kg	52	--	1
Tetrachloroethene	340		ug/kg	26	--	1
Chlorobenzene	ND		ug/kg	26	--	1
Trichlorofluoromethane	ND		ug/kg	210	--	1
1,2-Dichloroethane	ND		ug/kg	52	--	1
1,1,1-Trichloroethane	ND		ug/kg	26	--	1
Bromodichloromethane	ND		ug/kg	26	--	1
trans-1,3-Dichloropropene	ND		ug/kg	52	--	1
cis-1,3-Dichloropropene	ND		ug/kg	26	--	1
1,3-Dichloropropene, Total	ND		ug/kg	26	--	1
1,1-Dichloropropene	ND		ug/kg	26	--	1
Bromoform	ND		ug/kg	210	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	26	--	1
Benzene	ND		ug/kg	26	--	1
Toluene	ND		ug/kg	52	--	1
Ethylbenzene	ND		ug/kg	52	--	1
Chloromethane	ND		ug/kg	210	--	1
Bromomethane	ND		ug/kg	100	--	1
Vinyl chloride	ND		ug/kg	52	--	1
Chloroethane	ND		ug/kg	100	--	1
1,1-Dichloroethene	ND		ug/kg	52	--	1
trans-1,2-Dichloroethene	ND		ug/kg	78	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
Client ID: SB-4 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	100		ug/kg	26	--	1
1,2-Dichlorobenzene	ND		ug/kg	100	--	1
1,3-Dichlorobenzene	ND		ug/kg	100	--	1
1,4-Dichlorobenzene	ND		ug/kg	100	--	1
Methyl tert butyl ether	ND		ug/kg	100	--	1
p/m-Xylene	ND		ug/kg	100	--	1
o-Xylene	ND		ug/kg	52	--	1
Xylenes, Total	ND		ug/kg	52	--	1
cis-1,2-Dichloroethene	ND		ug/kg	52	--	1
1,2-Dichloroethene, Total	ND		ug/kg	52	--	1
Dibromomethane	ND		ug/kg	100	--	1
1,2,3-Trichloropropane	ND		ug/kg	100	--	1
Styrene	ND		ug/kg	52	--	1
Dichlorodifluoromethane	ND		ug/kg	520	--	1
Acetone	ND		ug/kg	520	--	1
Carbon disulfide	ND		ug/kg	520	--	1
Methyl ethyl ketone	ND		ug/kg	520	--	1
Methyl isobutyl ketone	ND		ug/kg	520	--	1
2-Hexanone	ND		ug/kg	520	--	1
Bromochloromethane	ND		ug/kg	100	--	1
Tetrahydrofuran	ND		ug/kg	210	--	1
2,2-Dichloropropane	ND		ug/kg	100	--	1
1,2-Dibromoethane	ND		ug/kg	52	--	1
1,3-Dichloropropane	ND		ug/kg	100	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	26	--	1
Bromobenzene	ND		ug/kg	100	--	1
n-Butylbenzene	ND		ug/kg	52	--	1
sec-Butylbenzene	ND		ug/kg	52	--	1
tert-Butylbenzene	ND		ug/kg	100	--	1
o-Chlorotoluene	ND		ug/kg	100	--	1
p-Chlorotoluene	ND		ug/kg	100	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Isopropylbenzene	ND		ug/kg	52	--	1
p-Isopropyltoluene	ND		ug/kg	52	--	1
Naphthalene	ND		ug/kg	210	--	1
n-Propylbenzene	ND		ug/kg	52	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
 Client ID: SB-4 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	100	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	100	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	100	--	1
Diethyl ether	ND		ug/kg	100	--	1
Diisopropyl Ether	ND		ug/kg	100	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--	1
1,4-Dioxane	ND		ug/kg	4100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	92		70-130

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/14/19 13:27
 Analyst: KJD
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.9	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.62	--	1
Chlorobenzene	ND		ug/kg	0.62	--	1
Trichlorofluoromethane	ND		ug/kg	5.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	--	1
Bromodichloromethane	ND		ug/kg	0.62	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	--	1
1,1-Dichloropropene	ND		ug/kg	0.62	--	1
Bromoform	ND		ug/kg	5.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Benzene	ND		ug/kg	0.62	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	5.0	--	1
Bromomethane	ND		ug/kg	2.5	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.5	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
Client ID: SB-4 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	--	1
Methyl tert butyl ether	ND		ug/kg	2.5	--	1
p/m-Xylene	ND		ug/kg	2.5	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	480	E	ug/kg	12	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.5	--	1
Tetrahydrofuran	ND		ug/kg	5.0	--	1
2,2-Dichloropropane	ND		ug/kg	2.5	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Bromobenzene	ND		ug/kg	2.5	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.5	--	1
o-Chlorotoluene	ND		ug/kg	2.5	--	1
p-Chlorotoluene	ND		ug/kg	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	--	1
Hexachlorobutadiene	ND		ug/kg	5.0	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	5.0	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	--	1
Diethyl ether	ND		ug/kg	2.5	--	1
Diisopropyl Ether	ND		ug/kg	2.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.5	--	1
1,4-Dioxane	ND		ug/kg	99	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 17:18
 Analyst: NLK
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	610	--	1
1,1-Dichloroethane	ND		ug/kg	120	--	1
Chloroform	ND		ug/kg	180	--	1
Carbon tetrachloride	ND		ug/kg	120	--	1
1,2-Dichloropropane	ND		ug/kg	120	--	1
Dibromochloromethane	ND		ug/kg	120	--	1
1,1,2-Trichloroethane	ND		ug/kg	120	--	1
Tetrachloroethene	61		ug/kg	61	--	1
Chlorobenzene	ND		ug/kg	61	--	1
Trichlorofluoromethane	ND		ug/kg	490	--	1
1,2-Dichloroethane	ND		ug/kg	120	--	1
1,1,1-Trichloroethane	ND		ug/kg	61	--	1
Bromodichloromethane	ND		ug/kg	61	--	1
trans-1,3-Dichloropropene	ND		ug/kg	120	--	1
cis-1,3-Dichloropropene	ND		ug/kg	61	--	1
1,3-Dichloropropene, Total	ND		ug/kg	61	--	1
1,1-Dichloropropene	ND		ug/kg	61	--	1
Bromoform	ND		ug/kg	490	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	61	--	1
Benzene	ND		ug/kg	61	--	1
Toluene	ND		ug/kg	120	--	1
Ethylbenzene	ND		ug/kg	120	--	1
Chloromethane	ND		ug/kg	490	--	1
Bromomethane	ND		ug/kg	240	--	1
Vinyl chloride	ND		ug/kg	120	--	1
Chloroethane	ND		ug/kg	240	--	1
1,1-Dichloroethene	ND		ug/kg	120	--	1
trans-1,2-Dichloroethene	ND		ug/kg	180	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
Client ID: SB-4 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	61	--	1
1,2-Dichlorobenzene	ND		ug/kg	240	--	1
1,3-Dichlorobenzene	ND		ug/kg	240	--	1
1,4-Dichlorobenzene	ND		ug/kg	240	--	1
Methyl tert butyl ether	ND		ug/kg	240	--	1
p/m-Xylene	ND		ug/kg	240	--	1
o-Xylene	ND		ug/kg	120	--	1
Xylenes, Total	ND		ug/kg	120	--	1
cis-1,2-Dichloroethene	ND		ug/kg	120	--	1
1,2-Dichloroethene, Total	ND		ug/kg	120	--	1
Dibromomethane	ND		ug/kg	240	--	1
1,2,3-Trichloropropane	ND		ug/kg	240	--	1
Styrene	ND		ug/kg	120	--	1
Dichlorodifluoromethane	ND		ug/kg	1200	--	1
Acetone	ND		ug/kg	1200	--	1
Carbon disulfide	ND		ug/kg	1200	--	1
Methyl ethyl ketone	ND		ug/kg	1200	--	1
Methyl isobutyl ketone	ND		ug/kg	1200	--	1
2-Hexanone	ND		ug/kg	1200	--	1
Bromochloromethane	ND		ug/kg	240	--	1
Tetrahydrofuran	ND		ug/kg	490	--	1
2,2-Dichloropropane	ND		ug/kg	240	--	1
1,2-Dibromoethane	ND		ug/kg	120	--	1
1,3-Dichloropropane	ND		ug/kg	240	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	61	--	1
Bromobenzene	ND		ug/kg	240	--	1
n-Butylbenzene	ND		ug/kg	120	--	1
sec-Butylbenzene	ND		ug/kg	120	--	1
tert-Butylbenzene	ND		ug/kg	240	--	1
o-Chlorotoluene	ND		ug/kg	240	--	1
p-Chlorotoluene	ND		ug/kg	240	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	--	1
Hexachlorobutadiene	ND		ug/kg	490	--	1
Isopropylbenzene	ND		ug/kg	120	--	1
p-Isopropyltoluene	ND		ug/kg	120	--	1
Naphthalene	ND		ug/kg	490	--	1
n-Propylbenzene	ND		ug/kg	120	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	240	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	240	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	240	--	1
Diethyl ether	ND		ug/kg	240	--	1
Diisopropyl Ether	ND		ug/kg	240	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	240	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	240	--	1
1,4-Dioxane	ND		ug/kg	9700	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
 Client ID: SB-3 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/14/19 13:53
 Analyst: KJD
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.74	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	0.74	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	--	1
Tetrachloroethene	14		ug/kg	0.37	--	1
Chlorobenzene	ND		ug/kg	0.37	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	--	1
Bromodichloromethane	ND		ug/kg	0.37	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.37	--	1
1,1-Dichloropropene	ND		ug/kg	0.37	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Benzene	ND		ug/kg	0.37	--	1
Toluene	ND		ug/kg	0.74	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	0.74	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
Client ID: SB-3 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.5		ug/kg	0.37	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	0.74	--	1
Xylenes, Total	ND		ug/kg	0.74	--	1
cis-1,2-Dichloroethene	1.4		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	1.4		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	1.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.5	--	1
Styrene	ND		ug/kg	0.74	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	140		ug/kg	7.4	--	1
Carbon disulfide	ND		ug/kg	7.4	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	1.5	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.5	--	1
1,2-Dibromoethane	ND		ug/kg	0.74	--	1
1,3-Dichloropropane	ND		ug/kg	1.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Bromobenzene	ND		ug/kg	1.5	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	1.5	--	1
o-Chlorotoluene	ND		ug/kg	1.5	--	1
p-Chlorotoluene	ND		ug/kg	1.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
Client ID: SB-3 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	--	1
Diethyl ether	ND		ug/kg	1.5	--	1
Diisopropyl Ether	ND		ug/kg	1.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.5	--	1
1,4-Dioxane	ND		ug/kg	59	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 09:45
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.72	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	0.72	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.72	--	1
Tetrachloroethene	5.8		ug/kg	0.36	--	1
Chlorobenzene	ND		ug/kg	0.36	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	--	1
Bromodichloromethane	ND		ug/kg	0.36	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	--	1
1,1-Dichloropropene	ND		ug/kg	0.36	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Benzene	ND		ug/kg	0.36	--	1
Toluene	ND		ug/kg	0.72	--	1
Ethylbenzene	ND		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	0.72	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.79		ug/kg	0.36	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	0.72	--	1
Xylenes, Total	ND		ug/kg	0.72	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	1.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	--	1
Styrene	ND		ug/kg	0.72	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	100		ug/kg	7.2	--	1
Carbon disulfide	ND		ug/kg	7.2	--	1
Methyl ethyl ketone	ND		ug/kg	7.2	--	1
Methyl isobutyl ketone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	1.4	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.4	--	1
1,2-Dibromoethane	ND		ug/kg	0.72	--	1
1,3-Dichloropropane	ND		ug/kg	1.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Bromobenzene	ND		ug/kg	1.4	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	1.4	--	1
o-Chlorotoluene	ND		ug/kg	1.4	--	1
p-Chlorotoluene	ND		ug/kg	1.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	--	1
Diethyl ether	ND		ug/kg	1.4	--	1
Diisopropyl Ether	ND		ug/kg	1.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	--	1
1,4-Dioxane	ND		ug/kg	58	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
 Client ID: SB-3 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 15:33
 Analyst: NLK
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.95	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.95	--	1
1,2-Dichloropropane	ND		ug/kg	0.95	--	1
Dibromochloromethane	ND		ug/kg	0.95	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	--	1
Tetrachloroethene	11		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.95	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.95	--	1
Ethylbenzene	ND		ug/kg	0.95	--	1
Chloromethane	ND		ug/kg	3.8	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.95	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.95	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
Client ID: SB-3 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.9		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.95	--	1
Xylenes, Total	ND		ug/kg	0.95	--	1
cis-1,2-Dichloroethene	4.0		ug/kg	0.95	--	1
1,2-Dichloroethene, Total	4.0		ug/kg	0.95	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.95	--	1
Dichlorodifluoromethane	ND		ug/kg	9.5	--	1
Acetone	260		ug/kg	9.5	--	1
Carbon disulfide	ND		ug/kg	9.5	--	1
Methyl ethyl ketone	12		ug/kg	9.5	--	1
Methyl isobutyl ketone	ND		ug/kg	9.5	--	1
2-Hexanone	ND		ug/kg	9.5	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.95	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.95	--	1
sec-Butylbenzene	ND		ug/kg	0.95	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.95	--	1
p-Isopropyltoluene	ND		ug/kg	0.95	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.95	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
 Client ID: SB-3 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	76	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
 Client ID: SB-2 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/14/19 15:11
 Analyst: KJD
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	1.0	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	2.1		ug/kg	0.52	--	1
Chlorobenzene	ND		ug/kg	0.52	--	1
Trichlorofluoromethane	ND		ug/kg	4.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	--	1
Bromodichloromethane	ND		ug/kg	0.52	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	--	1
1,1-Dichloropropene	ND		ug/kg	0.52	--	1
Bromoform	ND		ug/kg	4.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	--	1
Benzene	ND		ug/kg	0.52	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.2	--	1
Bromomethane	ND		ug/kg	2.1	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	2.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	--	1
Methyl tert butyl ether	ND		ug/kg	2.1	--	1
p/m-Xylene	ND		ug/kg	2.1	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	2.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	ND		ug/kg	10	--	1
Carbon disulfide	ND		ug/kg	10	--	1
Methyl ethyl ketone	ND		ug/kg	10	--	1
Methyl isobutyl ketone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	2.1	--	1
Tetrahydrofuran	ND		ug/kg	4.2	--	1
2,2-Dichloropropane	ND		ug/kg	2.1	--	1
1,2-Dibromoethane	ND		ug/kg	1.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	--	1
Bromobenzene	ND		ug/kg	2.1	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	2.1	--	1
o-Chlorotoluene	ND		ug/kg	2.1	--	1
p-Chlorotoluene	ND		ug/kg	2.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	4.2	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.2	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	--	1
Diethyl ether	ND		ug/kg	2.1	--	1
Diisopropyl Ether	ND		ug/kg	2.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.1	--	1
1,4-Dioxane	ND		ug/kg	83	--	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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 R
 Client ID: SB-2 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 15:59
 Analyst: NLK
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.85	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.85	--	1
1,2-Dichloropropane	ND		ug/kg	0.85	--	1
Dibromochloromethane	ND		ug/kg	0.85	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.85	--	1
Tetrachloroethene	1.4		ug/kg	0.42	--	1
Chlorobenzene	ND		ug/kg	0.42	--	1
Trichlorofluoromethane	ND		ug/kg	3.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.85	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	--	1
Bromodichloromethane	ND		ug/kg	0.42	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	--	1
1,1-Dichloropropene	ND		ug/kg	0.42	--	1
Bromoform	ND		ug/kg	3.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Benzene	ND		ug/kg	0.42	--	1
Toluene	ND		ug/kg	0.85	--	1
Ethylbenzene	ND		ug/kg	0.85	--	1
Chloromethane	ND		ug/kg	3.4	--	1
Bromomethane	ND		ug/kg	1.7	--	1
Vinyl chloride	ND		ug/kg	0.85	--	1
Chloroethane	ND		ug/kg	1.7	--	1
1,1-Dichloroethene	ND		ug/kg	0.85	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 R
 Client ID: SB-2 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.7	--	1
p/m-Xylene	ND		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	0.85	--	1
Xylenes, Total	ND		ug/kg	0.85	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.85	--	1
Dibromomethane	ND		ug/kg	1.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	--	1
Styrene	ND		ug/kg	0.85	--	1
Dichlorodifluoromethane	ND		ug/kg	8.5	--	1
Acetone	19		ug/kg	8.5	--	1
Carbon disulfide	ND		ug/kg	8.5	--	1
Methyl ethyl ketone	ND		ug/kg	8.5	--	1
Methyl isobutyl ketone	ND		ug/kg	8.5	--	1
2-Hexanone	ND		ug/kg	8.5	--	1
Bromochloromethane	ND		ug/kg	1.7	--	1
Tetrahydrofuran	ND		ug/kg	3.4	--	1
2,2-Dichloropropane	ND		ug/kg	1.7	--	1
1,2-Dibromoethane	ND		ug/kg	0.85	--	1
1,3-Dichloropropane	ND		ug/kg	1.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Bromobenzene	ND		ug/kg	1.7	--	1
n-Butylbenzene	ND		ug/kg	0.85	--	1
sec-Butylbenzene	ND		ug/kg	0.85	--	1
tert-Butylbenzene	ND		ug/kg	1.7	--	1
o-Chlorotoluene	ND		ug/kg	1.7	--	1
p-Chlorotoluene	ND		ug/kg	1.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	--	1
Hexachlorobutadiene	ND		ug/kg	3.4	--	1
Isopropylbenzene	ND		ug/kg	0.85	--	1
p-Isopropyltoluene	ND		ug/kg	0.85	--	1
Naphthalene	24		ug/kg	3.4	--	1
n-Propylbenzene	ND		ug/kg	0.85	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23 R
 Client ID: SB-2 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	--	1
Diethyl ether	ND		ug/kg	1.7	--	1
Diisopropyl Ether	ND		ug/kg	1.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.7	--	1
1,4-Dioxane	ND		ug/kg	68	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
 Client ID: SB-2 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 15:07
 Analyst: NLK
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.97	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.97	--	1
1,2-Dichloropropane	ND		ug/kg	0.97	--	1
Dibromochloromethane	ND		ug/kg	0.97	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	--	1
Tetrachloroethene	0.61		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.97	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.97	--	1
Ethylbenzene	ND		ug/kg	0.97	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.97	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.97	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
Client ID: SB-2 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.97	--	1
Xylenes, Total	ND		ug/kg	0.97	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.97	--	1
Dichlorodifluoromethane	ND		ug/kg	9.7	--	1
Acetone	120		ug/kg	9.7	--	1
Carbon disulfide	ND		ug/kg	9.7	--	1
Methyl ethyl ketone	ND		ug/kg	9.7	--	1
Methyl isobutyl ketone	ND		ug/kg	9.7	--	1
2-Hexanone	ND		ug/kg	9.7	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.97	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.97	--	1
sec-Butylbenzene	ND		ug/kg	0.97	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1
Isopropylbenzene	ND		ug/kg	0.97	--	1
p-Isopropyltoluene	ND		ug/kg	0.97	--	1
Naphthalene	ND		ug/kg	3.9	--	1
n-Propylbenzene	ND		ug/kg	0.97	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
Client ID: SB-2 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	77	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/14/19 16:15
 Analyst: JC
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.3	--	1
Chloroform	ND		ug/kg	2.0	--	1
Carbon tetrachloride	ND		ug/kg	1.3	--	1
1,2-Dichloropropane	ND		ug/kg	1.3	--	1
Dibromochloromethane	ND		ug/kg	1.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	--	1
Tetrachloroethene	17		ug/kg	0.66	--	1
Chlorobenzene	ND		ug/kg	0.66	--	1
Trichlorofluoromethane	ND		ug/kg	5.3	--	1
1,2-Dichloroethane	ND		ug/kg	1.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	--	1
Bromodichloromethane	ND		ug/kg	0.66	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	--	1
1,1-Dichloropropene	ND		ug/kg	0.66	--	1
Bromoform	ND		ug/kg	5.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Benzene	ND		ug/kg	0.66	--	1
Toluene	ND		ug/kg	1.3	--	1
Ethylbenzene	ND		ug/kg	1.3	--	1
Chloromethane	ND		ug/kg	5.3	--	1
Bromomethane	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	1.3	--	1
Chloroethane	ND		ug/kg	2.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
Client ID: SB-2 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	7.0		ug/kg	0.66	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	--	1
Methyl tert butyl ether	ND		ug/kg	2.6	--	1
p/m-Xylene	ND		ug/kg	2.6	--	1
o-Xylene	ND		ug/kg	1.3	--	1
Xylenes, Total	ND		ug/kg	1.3	--	1
cis-1,2-Dichloroethene	4.8		ug/kg	1.3	--	1
1,2-Dichloroethene, Total	4.8		ug/kg	1.3	--	1
Dibromomethane	ND		ug/kg	2.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	--	1
Styrene	ND		ug/kg	1.3	--	1
Dichlorodifluoromethane	ND		ug/kg	13	--	1
Acetone	440	E	ug/kg	13	--	1
Carbon disulfide	ND		ug/kg	13	--	1
Methyl ethyl ketone	ND		ug/kg	13	--	1
Methyl isobutyl ketone	ND		ug/kg	13	--	1
2-Hexanone	ND		ug/kg	13	--	1
Bromochloromethane	ND		ug/kg	2.6	--	1
Tetrahydrofuran	ND		ug/kg	5.3	--	1
2,2-Dichloropropane	ND		ug/kg	2.6	--	1
1,2-Dibromoethane	ND		ug/kg	1.3	--	1
1,3-Dichloropropane	ND		ug/kg	2.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Bromobenzene	ND		ug/kg	2.6	--	1
n-Butylbenzene	ND		ug/kg	1.3	--	1
sec-Butylbenzene	ND		ug/kg	1.3	--	1
tert-Butylbenzene	ND		ug/kg	2.6	--	1
o-Chlorotoluene	ND		ug/kg	2.6	--	1
p-Chlorotoluene	ND		ug/kg	2.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	--	1
Hexachlorobutadiene	ND		ug/kg	5.3	--	1
Isopropylbenzene	ND		ug/kg	1.3	--	1
p-Isopropyltoluene	ND		ug/kg	1.3	--	1
Naphthalene	ND		ug/kg	5.3	--	1
n-Propylbenzene	ND		ug/kg	1.3	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
Client ID: SB-2 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	--	1
Diethyl ether	ND		ug/kg	2.6	--	1
Diisopropyl Ether	ND		ug/kg	2.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.6	--	1
1,4-Dioxane	ND		ug/kg	100	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/17/19 12:15
 Analyst: NLK
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	520	--	1
1,1-Dichloroethane	ND		ug/kg	100	--	1
Chloroform	ND		ug/kg	150	--	1
Carbon tetrachloride	ND		ug/kg	100	--	1
1,2-Dichloropropane	ND		ug/kg	100	--	1
Dibromochloromethane	ND		ug/kg	100	--	1
1,1,2-Trichloroethane	ND		ug/kg	100	--	1
Tetrachloroethene	340		ug/kg	52	--	1
Chlorobenzene	ND		ug/kg	52	--	1
Trichlorofluoromethane	ND		ug/kg	410	--	1
1,2-Dichloroethane	ND		ug/kg	100	--	1
1,1,1-Trichloroethane	ND		ug/kg	52	--	1
Bromodichloromethane	ND		ug/kg	52	--	1
trans-1,3-Dichloropropene	ND		ug/kg	100	--	1
cis-1,3-Dichloropropene	ND		ug/kg	52	--	1
1,3-Dichloropropene, Total	ND		ug/kg	52	--	1
1,1-Dichloropropene	ND		ug/kg	52	--	1
Bromoform	ND		ug/kg	410	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	52	--	1
Benzene	ND		ug/kg	52	--	1
Toluene	ND		ug/kg	100	--	1
Ethylbenzene	ND		ug/kg	100	--	1
Chloromethane	ND		ug/kg	410	--	1
Bromomethane	ND		ug/kg	210	--	1
Vinyl chloride	ND		ug/kg	100	--	1
Chloroethane	ND		ug/kg	210	--	1
1,1-Dichloroethene	ND		ug/kg	100	--	1
trans-1,2-Dichloroethene	ND		ug/kg	150	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
Client ID: SB-2 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	130		ug/kg	52	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
Methyl tert butyl ether	ND		ug/kg	210	--	1
p/m-Xylene	ND		ug/kg	210	--	1
o-Xylene	ND		ug/kg	100	--	1
Xylenes, Total	ND		ug/kg	100	--	1
cis-1,2-Dichloroethene	130		ug/kg	100	--	1
1,2-Dichloroethene, Total	130		ug/kg	100	--	1
Dibromomethane	ND		ug/kg	210	--	1
1,2,3-Trichloropropane	ND		ug/kg	210	--	1
Styrene	ND		ug/kg	100	--	1
Dichlorodifluoromethane	ND		ug/kg	1000	--	1
Acetone	ND		ug/kg	1000	--	1
Carbon disulfide	ND		ug/kg	1000	--	1
Methyl ethyl ketone	ND		ug/kg	1000	--	1
Methyl isobutyl ketone	ND		ug/kg	1000	--	1
2-Hexanone	ND		ug/kg	1000	--	1
Bromochloromethane	ND		ug/kg	210	--	1
Tetrahydrofuran	ND		ug/kg	410	--	1
2,2-Dichloropropane	ND		ug/kg	210	--	1
1,2-Dibromoethane	ND		ug/kg	100	--	1
1,3-Dichloropropane	ND		ug/kg	210	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	52	--	1
Bromobenzene	ND		ug/kg	210	--	1
n-Butylbenzene	ND		ug/kg	100	--	1
sec-Butylbenzene	ND		ug/kg	100	--	1
tert-Butylbenzene	ND		ug/kg	210	--	1
o-Chlorotoluene	ND		ug/kg	210	--	1
p-Chlorotoluene	ND		ug/kg	210	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	310	--	1
Hexachlorobutadiene	ND		ug/kg	410	--	1
Isopropylbenzene	ND		ug/kg	100	--	1
p-Isopropyltoluene	ND		ug/kg	100	--	1
Naphthalene	ND		ug/kg	410	--	1
n-Propylbenzene	ND		ug/kg	100	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
Client ID: SB-2 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	210	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	210	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	210	--	1
Diethyl ether	ND		ug/kg	210	--	1
Diisopropyl Ether	ND		ug/kg	210	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	210	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	210	--	1
1,4-Dioxane	ND		ug/kg	8200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	94		70-130

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
 Client ID: D-07 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/14/19 16:39
 Analyst: JC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	--	1
1,1-Dichloroethane	ND		ug/kg	0.88	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.88	--	1
1,2-Dichloropropane	ND		ug/kg	0.88	--	1
Dibromochloromethane	ND		ug/kg	0.88	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	--	1
Tetrachloroethene	1.1		ug/kg	0.44	--	1
Chlorobenzene	ND		ug/kg	0.44	--	1
Trichlorofluoromethane	ND		ug/kg	3.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.88	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	--	1
Bromodichloromethane	ND		ug/kg	0.44	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	--	1
1,1-Dichloropropene	ND		ug/kg	0.44	--	1
Bromoform	ND		ug/kg	3.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Benzene	ND		ug/kg	0.44	--	1
Toluene	ND		ug/kg	0.88	--	1
Ethylbenzene	ND		ug/kg	0.88	--	1
Chloromethane	ND		ug/kg	3.5	--	1
Bromomethane	ND		ug/kg	1.8	--	1
Vinyl chloride	ND		ug/kg	0.88	--	1
Chloroethane	ND		ug/kg	1.8	--	1
1,1-Dichloroethene	ND		ug/kg	0.88	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
Client ID: D-07 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	--	1
Methyl tert butyl ether	ND		ug/kg	1.8	--	1
p/m-Xylene	ND		ug/kg	1.8	--	1
o-Xylene	ND		ug/kg	0.88	--	1
Xylenes, Total	ND		ug/kg	0.88	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	--	1
Dibromomethane	ND		ug/kg	1.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	--	1
Styrene	ND		ug/kg	0.88	--	1
Dichlorodifluoromethane	ND		ug/kg	8.8	--	1
Acetone	350	E	ug/kg	8.8	--	1
Carbon disulfide	ND		ug/kg	8.8	--	1
Methyl ethyl ketone	ND		ug/kg	8.8	--	1
Methyl isobutyl ketone	ND		ug/kg	8.8	--	1
2-Hexanone	ND		ug/kg	8.8	--	1
Bromochloromethane	ND		ug/kg	1.8	--	1
Tetrahydrofuran	ND		ug/kg	3.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.8	--	1
1,2-Dibromoethane	ND		ug/kg	0.88	--	1
1,3-Dichloropropane	ND		ug/kg	1.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Bromobenzene	ND		ug/kg	1.8	--	1
n-Butylbenzene	ND		ug/kg	0.88	--	1
sec-Butylbenzene	ND		ug/kg	0.88	--	1
tert-Butylbenzene	ND		ug/kg	1.8	--	1
o-Chlorotoluene	ND		ug/kg	1.8	--	1
p-Chlorotoluene	ND		ug/kg	1.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.5	--	1
Isopropylbenzene	ND		ug/kg	0.88	--	1
p-Isopropyltoluene	ND		ug/kg	0.88	--	1
Naphthalene	13		ug/kg	3.5	--	1
n-Propylbenzene	ND		ug/kg	0.88	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
Client ID: D-07 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	--	1
Diethyl ether	ND		ug/kg	1.8	--	1
Diisopropyl Ether	ND		ug/kg	1.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.8	--	1
1,4-Dioxane	ND		ug/kg	70	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
 Client ID: D-07 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 09:21
 Analyst: JC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	270	--	1
1,1-Dichloroethane	ND		ug/kg	54	--	1
Chloroform	ND		ug/kg	81	--	1
Carbon tetrachloride	ND		ug/kg	54	--	1
1,2-Dichloropropane	ND		ug/kg	54	--	1
Dibromochloromethane	ND		ug/kg	54	--	1
1,1,2-Trichloroethane	ND		ug/kg	54	--	1
Tetrachloroethene	ND		ug/kg	27	--	1
Chlorobenzene	ND		ug/kg	27	--	1
Trichlorofluoromethane	ND		ug/kg	220	--	1
1,2-Dichloroethane	ND		ug/kg	54	--	1
1,1,1-Trichloroethane	ND		ug/kg	27	--	1
Bromodichloromethane	ND		ug/kg	27	--	1
trans-1,3-Dichloropropene	ND		ug/kg	54	--	1
cis-1,3-Dichloropropene	ND		ug/kg	27	--	1
1,3-Dichloropropene, Total	ND		ug/kg	27	--	1
1,1-Dichloropropene	ND		ug/kg	27	--	1
Bromoform	ND		ug/kg	220	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	--	1
Benzene	ND		ug/kg	27	--	1
Toluene	ND		ug/kg	54	--	1
Ethylbenzene	ND		ug/kg	54	--	1
Chloromethane	ND		ug/kg	220	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	54	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	54	--	1
trans-1,2-Dichloroethene	ND		ug/kg	81	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
Client ID: D-07 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	27	--	1
1,2-Dichlorobenzene	ND		ug/kg	110	--	1
1,3-Dichlorobenzene	ND		ug/kg	110	--	1
1,4-Dichlorobenzene	ND		ug/kg	110	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	ND		ug/kg	110	--	1
o-Xylene	ND		ug/kg	54	--	1
Xylenes, Total	ND		ug/kg	54	--	1
cis-1,2-Dichloroethene	ND		ug/kg	54	--	1
1,2-Dichloroethene, Total	ND		ug/kg	54	--	1
Dibromomethane	ND		ug/kg	110	--	1
1,2,3-Trichloropropane	ND		ug/kg	110	--	1
Styrene	ND		ug/kg	54	--	1
Dichlorodifluoromethane	ND		ug/kg	540	--	1
Acetone	ND		ug/kg	540	--	1
Carbon disulfide	ND		ug/kg	540	--	1
Methyl ethyl ketone	ND		ug/kg	540	--	1
Methyl isobutyl ketone	ND		ug/kg	540	--	1
2-Hexanone	ND		ug/kg	540	--	1
Bromochloromethane	ND		ug/kg	110	--	1
Tetrahydrofuran	ND		ug/kg	220	--	1
2,2-Dichloropropane	ND		ug/kg	110	--	1
1,2-Dibromoethane	ND		ug/kg	54	--	1
1,3-Dichloropropane	ND		ug/kg	110	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	--	1
Bromobenzene	ND		ug/kg	110	--	1
n-Butylbenzene	ND		ug/kg	54	--	1
sec-Butylbenzene	ND		ug/kg	54	--	1
tert-Butylbenzene	ND		ug/kg	110	--	1
o-Chlorotoluene	ND		ug/kg	110	--	1
p-Chlorotoluene	ND		ug/kg	110	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Isopropylbenzene	ND		ug/kg	54	--	1
p-Isopropyltoluene	ND		ug/kg	54	--	1
Naphthalene	4400		ug/kg	220	--	1
n-Propylbenzene	ND		ug/kg	54	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
 Client ID: D-07 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	110	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	--	1
Diethyl ether	ND		ug/kg	110	--	1
Diisopropyl Ether	ND		ug/kg	110	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	110	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	110	--	1
1,4-Dioxane	ND		ug/kg	4300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
 Client ID: D-07 (7-9)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/14/19 17:03
 Analyst: JC
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.83	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.83	--	1
1,2-Dichloropropane	ND		ug/kg	0.83	--	1
Dibromochloromethane	ND		ug/kg	0.83	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.83	--	1
Tetrachloroethene	ND		ug/kg	0.42	--	1
Chlorobenzene	ND		ug/kg	0.42	--	1
Trichlorofluoromethane	ND		ug/kg	3.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.83	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	--	1
Bromodichloromethane	ND		ug/kg	0.42	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	--	1
1,1-Dichloropropene	ND		ug/kg	0.42	--	1
Bromoform	ND		ug/kg	3.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Benzene	ND		ug/kg	0.42	--	1
Toluene	ND		ug/kg	0.83	--	1
Ethylbenzene	ND		ug/kg	0.83	--	1
Chloromethane	ND		ug/kg	3.3	--	1
Bromomethane	ND		ug/kg	1.7	--	1
Vinyl chloride	ND		ug/kg	0.83	--	1
Chloroethane	ND		ug/kg	1.7	--	1
1,1-Dichloroethene	ND		ug/kg	0.83	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
Client ID: D-07 (7-9)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.7	--	1
p/m-Xylene	ND		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	0.83	--	1
Xylenes, Total	ND		ug/kg	0.83	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.83	--	1
Dibromomethane	ND		ug/kg	1.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	--	1
Styrene	ND		ug/kg	0.83	--	1
Dichlorodifluoromethane	ND		ug/kg	8.3	--	1
Acetone	49		ug/kg	8.3	--	1
Carbon disulfide	ND		ug/kg	8.3	--	1
Methyl ethyl ketone	ND		ug/kg	8.3	--	1
Methyl isobutyl ketone	ND		ug/kg	8.3	--	1
2-Hexanone	ND		ug/kg	8.3	--	1
Bromochloromethane	ND		ug/kg	1.7	--	1
Tetrahydrofuran	ND		ug/kg	3.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.7	--	1
1,2-Dibromoethane	ND		ug/kg	0.83	--	1
1,3-Dichloropropane	ND		ug/kg	1.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Bromobenzene	ND		ug/kg	1.7	--	1
n-Butylbenzene	ND		ug/kg	0.83	--	1
sec-Butylbenzene	ND		ug/kg	0.83	--	1
tert-Butylbenzene	ND		ug/kg	1.7	--	1
o-Chlorotoluene	ND		ug/kg	1.7	--	1
p-Chlorotoluene	ND		ug/kg	1.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	--	1
Hexachlorobutadiene	ND		ug/kg	3.3	--	1
Isopropylbenzene	ND		ug/kg	0.83	--	1
p-Isopropyltoluene	ND		ug/kg	0.83	--	1
Naphthalene	ND		ug/kg	3.3	--	1
n-Propylbenzene	ND		ug/kg	0.83	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
Client ID: D-07 (7-9)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	--	1
Diethyl ether	ND		ug/kg	1.7	--	1
Diisopropyl Ether	ND		ug/kg	1.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.7	--	1
1,4-Dioxane	ND		ug/kg	67	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
 Client ID: SB-DUP-5
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 19:44
 Analyst: NLK
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	240	--	1
1,1-Dichloroethane	ND		ug/kg	49	--	1
Chloroform	ND		ug/kg	73	--	1
Carbon tetrachloride	ND		ug/kg	49	--	1
1,2-Dichloropropane	ND		ug/kg	49	--	1
Dibromochloromethane	ND		ug/kg	49	--	1
1,1,2-Trichloroethane	ND		ug/kg	49	--	1
Tetrachloroethene	ND		ug/kg	24	--	1
Chlorobenzene	ND		ug/kg	24	--	1
Trichlorofluoromethane	ND		ug/kg	200	--	1
1,2-Dichloroethane	ND		ug/kg	49	--	1
1,1,1-Trichloroethane	ND		ug/kg	24	--	1
Bromodichloromethane	ND		ug/kg	24	--	1
trans-1,3-Dichloropropene	ND		ug/kg	49	--	1
cis-1,3-Dichloropropene	ND		ug/kg	24	--	1
1,3-Dichloropropene, Total	ND		ug/kg	24	--	1
1,1-Dichloropropene	ND		ug/kg	24	--	1
Bromoform	ND		ug/kg	200	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	24	--	1
Benzene	ND		ug/kg	24	--	1
Toluene	ND		ug/kg	49	--	1
Ethylbenzene	ND		ug/kg	49	--	1
Chloromethane	ND		ug/kg	200	--	1
Bromomethane	ND		ug/kg	98	--	1
Vinyl chloride	ND		ug/kg	49	--	1
Chloroethane	ND		ug/kg	98	--	1
1,1-Dichloroethene	ND		ug/kg	49	--	1
trans-1,2-Dichloroethene	ND		ug/kg	73	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
Client ID: SB-DUP-5
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	24	--	1
1,2-Dichlorobenzene	ND		ug/kg	98	--	1
1,3-Dichlorobenzene	ND		ug/kg	98	--	1
1,4-Dichlorobenzene	ND		ug/kg	98	--	1
Methyl tert butyl ether	ND		ug/kg	98	--	1
p/m-Xylene	ND		ug/kg	98	--	1
o-Xylene	ND		ug/kg	49	--	1
Xylenes, Total	ND		ug/kg	49	--	1
cis-1,2-Dichloroethene	ND		ug/kg	49	--	1
1,2-Dichloroethene, Total	ND		ug/kg	49	--	1
Dibromomethane	ND		ug/kg	98	--	1
1,2,3-Trichloropropane	ND		ug/kg	98	--	1
Styrene	ND		ug/kg	49	--	1
Dichlorodifluoromethane	ND		ug/kg	490	--	1
Acetone	ND		ug/kg	490	--	1
Carbon disulfide	ND		ug/kg	490	--	1
Methyl ethyl ketone	ND		ug/kg	490	--	1
Methyl isobutyl ketone	ND		ug/kg	490	--	1
2-Hexanone	ND		ug/kg	490	--	1
Bromochloromethane	ND		ug/kg	98	--	1
Tetrahydrofuran	ND		ug/kg	200	--	1
2,2-Dichloropropane	ND		ug/kg	98	--	1
1,2-Dibromoethane	ND		ug/kg	49	--	1
1,3-Dichloropropane	ND		ug/kg	98	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	24	--	1
Bromobenzene	ND		ug/kg	98	--	1
n-Butylbenzene	ND		ug/kg	49	--	1
sec-Butylbenzene	ND		ug/kg	49	--	1
tert-Butylbenzene	ND		ug/kg	98	--	1
o-Chlorotoluene	ND		ug/kg	98	--	1
p-Chlorotoluene	ND		ug/kg	98	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Isopropylbenzene	ND		ug/kg	49	--	1
p-Isopropyltoluene	ND		ug/kg	49	--	1
Naphthalene	2500		ug/kg	200	--	1
n-Propylbenzene	ND		ug/kg	49	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
Client ID: SB-DUP-5
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	98	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	98	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	98	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	98	--	1
Diethyl ether	ND		ug/kg	98	--	1
Diisopropyl Ether	ND		ug/kg	98	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	98	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	98	--	1
1,4-Dioxane	ND		ug/kg	3900	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55
 Client ID: E-06 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 21:45
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.95	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.95	--	1
1,2-Dichloropropane	ND		ug/kg	0.95	--	1
Dibromochloromethane	ND		ug/kg	0.95	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	--	1
Tetrachloroethene	2.9		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.95	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.95	--	1
Ethylbenzene	ND		ug/kg	0.95	--	1
Chloromethane	ND		ug/kg	3.8	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.95	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.95	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55
Client ID: E-06 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.8		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.95	--	1
Xylenes, Total	ND		ug/kg	0.95	--	1
cis-1,2-Dichloroethene	1.2		ug/kg	0.95	--	1
1,2-Dichloroethene, Total	1.2		ug/kg	0.95	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.95	--	1
Dichlorodifluoromethane	ND		ug/kg	9.5	--	1
Acetone	270		ug/kg	9.5	--	1
Carbon disulfide	ND		ug/kg	9.5	--	1
Methyl ethyl ketone	ND		ug/kg	9.5	--	1
Methyl isobutyl ketone	ND		ug/kg	9.5	--	1
2-Hexanone	ND		ug/kg	9.5	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.95	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.95	--	1
sec-Butylbenzene	ND		ug/kg	0.95	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.95	--	1
p-Isopropyltoluene	ND		ug/kg	0.95	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.95	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55
Client ID: E-06 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	76	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
 Client ID: E-06 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 22:09
 Analyst: NLK
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.97	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.97	--	1
1,2-Dichloropropane	ND		ug/kg	0.97	--	1
Dibromochloromethane	ND		ug/kg	0.97	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	--	1
Tetrachloroethene	ND		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.97	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.97	--	1
Ethylbenzene	ND		ug/kg	0.97	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.97	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.97	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
Client ID: E-06 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.97	--	1
Xylenes, Total	ND		ug/kg	0.97	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.97	--	1
Dichlorodifluoromethane	ND		ug/kg	9.7	--	1
Acetone	250		ug/kg	9.7	--	1
Carbon disulfide	ND		ug/kg	9.7	--	1
Methyl ethyl ketone	ND		ug/kg	9.7	--	1
Methyl isobutyl ketone	ND		ug/kg	9.7	--	1
2-Hexanone	ND		ug/kg	9.7	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.97	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.97	--	1
sec-Butylbenzene	ND		ug/kg	0.97	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1
Isopropylbenzene	ND		ug/kg	0.97	--	1
p-Isopropyltoluene	ND		ug/kg	0.97	--	1
Naphthalene	13		ug/kg	3.9	--	1
n-Propylbenzene	ND		ug/kg	0.97	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
Client ID: E-06 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	77	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
 Client ID: B-09 (1-3)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 01:46
 Analyst: NLK
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.73	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.73	--	1
1,2-Dichloropropane	ND		ug/kg	0.73	--	1
Dibromochloromethane	ND		ug/kg	0.73	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.73	--	1
Tetrachloroethene	ND		ug/kg	0.36	--	1
Chlorobenzene	ND		ug/kg	0.36	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.73	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	--	1
Bromodichloromethane	ND		ug/kg	0.36	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.73	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	--	1
1,1-Dichloropropene	ND		ug/kg	0.36	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Benzene	ND		ug/kg	0.36	--	1
Toluene	ND		ug/kg	0.73	--	1
Ethylbenzene	ND		ug/kg	0.73	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	0.73	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.73	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
Client ID: B-09 (1-3)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.36	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	0.73	--	1
Xylenes, Total	ND		ug/kg	0.73	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.73	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.73	--	1
Dibromomethane	ND		ug/kg	1.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	--	1
Styrene	ND		ug/kg	0.73	--	1
Dichlorodifluoromethane	ND		ug/kg	7.3	--	1
Acetone	18		ug/kg	7.3	--	1
Carbon disulfide	ND		ug/kg	7.3	--	1
Methyl ethyl ketone	ND		ug/kg	7.3	--	1
Methyl isobutyl ketone	ND		ug/kg	7.3	--	1
2-Hexanone	ND		ug/kg	7.3	--	1
Bromochloromethane	ND		ug/kg	1.4	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.4	--	1
1,2-Dibromoethane	ND		ug/kg	0.73	--	1
1,3-Dichloropropane	ND		ug/kg	1.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Bromobenzene	ND		ug/kg	1.4	--	1
n-Butylbenzene	ND		ug/kg	0.73	--	1
sec-Butylbenzene	ND		ug/kg	0.73	--	1
tert-Butylbenzene	ND		ug/kg	1.4	--	1
o-Chlorotoluene	ND		ug/kg	1.4	--	1
p-Chlorotoluene	ND		ug/kg	1.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.73	--	1
p-Isopropyltoluene	ND		ug/kg	0.73	--	1
Naphthalene	6.1		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.73	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
Client ID: B-09 (1-3)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	--	1
Diethyl ether	ND		ug/kg	1.4	--	1
Diisopropyl Ether	ND		ug/kg	1.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	--	1
1,4-Dioxane	ND		ug/kg	58	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 10:09
 Analyst: JC
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	1.1	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.53	--	1
Chlorobenzene	ND		ug/kg	0.53	--	1
Trichlorofluoromethane	ND		ug/kg	4.3	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	--	1
Bromodichloromethane	ND		ug/kg	0.53	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	--	1
1,1-Dichloropropene	ND		ug/kg	0.53	--	1
Bromoform	ND		ug/kg	4.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	--	1
Benzene	ND		ug/kg	0.53	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	4.3	--	1
Bromomethane	ND		ug/kg	2.1	--	1
Vinyl chloride	ND		ug/kg	1.1	--	1
Chloroethane	ND		ug/kg	2.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.53	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	--	1
Methyl tert butyl ether	ND		ug/kg	2.1	--	1
p/m-Xylene	ND		ug/kg	2.1	--	1
o-Xylene	ND		ug/kg	1.1	--	1
Xylenes, Total	ND		ug/kg	1.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	--	1
Dibromomethane	ND		ug/kg	2.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	--	1
Styrene	ND		ug/kg	1.1	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	210		ug/kg	11	--	1
Carbon disulfide	ND		ug/kg	11	--	1
Methyl ethyl ketone	ND		ug/kg	11	--	1
Methyl isobutyl ketone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Bromochloromethane	ND		ug/kg	2.1	--	1
Tetrahydrofuran	ND		ug/kg	4.3	--	1
2,2-Dichloropropane	ND		ug/kg	2.1	--	1
1,2-Dibromoethane	ND		ug/kg	1.1	--	1
1,3-Dichloropropane	ND		ug/kg	2.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	--	1
Bromobenzene	ND		ug/kg	2.1	--	1
n-Butylbenzene	ND		ug/kg	1.1	--	1
sec-Butylbenzene	ND		ug/kg	1.1	--	1
tert-Butylbenzene	ND		ug/kg	2.1	--	1
o-Chlorotoluene	ND		ug/kg	2.1	--	1
p-Chlorotoluene	ND		ug/kg	2.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	--	1
Hexachlorobutadiene	ND		ug/kg	4.3	--	1
Isopropylbenzene	ND		ug/kg	1.1	--	1
p-Isopropyltoluene	ND		ug/kg	1.1	--	1
Naphthalene	ND		ug/kg	4.3	--	1
n-Propylbenzene	ND		ug/kg	1.1	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	--	1
Diethyl ether	ND		ug/kg	2.1	--	1
Diisopropyl Ether	ND		ug/kg	2.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.1	--	1
1,4-Dioxane	ND		ug/kg	86	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113
 Client ID: B-05 (1-3)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 18:32
 Analyst: NLK
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	--	1
1,1-Dichloroethane	ND		ug/kg	68	--	1
Chloroform	ND		ug/kg	100	--	1
Carbon tetrachloride	ND		ug/kg	68	--	1
1,2-Dichloropropane	ND		ug/kg	68	--	1
Dibromochloromethane	ND		ug/kg	68	--	1
1,1,2-Trichloroethane	ND		ug/kg	68	--	1
Tetrachloroethene	3800		ug/kg	34	--	1
Chlorobenzene	ND		ug/kg	34	--	1
Trichlorofluoromethane	ND		ug/kg	270	--	1
1,2-Dichloroethane	ND		ug/kg	68	--	1
1,1,1-Trichloroethane	ND		ug/kg	34	--	1
Bromodichloromethane	ND		ug/kg	34	--	1
trans-1,3-Dichloropropene	ND		ug/kg	68	--	1
cis-1,3-Dichloropropene	ND		ug/kg	34	--	1
1,3-Dichloropropene, Total	ND		ug/kg	34	--	1
1,1-Dichloropropene	ND		ug/kg	34	--	1
Bromoform	ND		ug/kg	270	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	--	1
Benzene	ND		ug/kg	34	--	1
Toluene	ND		ug/kg	68	--	1
Ethylbenzene	ND		ug/kg	68	--	1
Chloromethane	ND		ug/kg	270	--	1
Bromomethane	ND		ug/kg	140	--	1
Vinyl chloride	ND		ug/kg	68	--	1
Chloroethane	ND		ug/kg	140	--	1
1,1-Dichloroethene	ND		ug/kg	68	--	1
trans-1,2-Dichloroethene	ND		ug/kg	100	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113
Client ID: B-05 (1-3)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	490		ug/kg	34	--	1
1,2-Dichlorobenzene	ND		ug/kg	140	--	1
1,3-Dichlorobenzene	ND		ug/kg	140	--	1
1,4-Dichlorobenzene	ND		ug/kg	140	--	1
Methyl tert butyl ether	ND		ug/kg	140	--	1
p/m-Xylene	ND		ug/kg	140	--	1
o-Xylene	ND		ug/kg	68	--	1
Xylenes, Total	ND		ug/kg	68	--	1
cis-1,2-Dichloroethene	ND		ug/kg	68	--	1
1,2-Dichloroethene, Total	ND		ug/kg	68	--	1
Dibromomethane	ND		ug/kg	140	--	1
1,2,3-Trichloropropane	ND		ug/kg	140	--	1
Styrene	ND		ug/kg	68	--	1
Dichlorodifluoromethane	ND		ug/kg	680	--	1
Acetone	ND		ug/kg	680	--	1
Carbon disulfide	ND		ug/kg	680	--	1
Methyl ethyl ketone	ND		ug/kg	680	--	1
Methyl isobutyl ketone	ND		ug/kg	680	--	1
2-Hexanone	ND		ug/kg	680	--	1
Bromochloromethane	ND		ug/kg	140	--	1
Tetrahydrofuran	ND		ug/kg	270	--	1
2,2-Dichloropropane	ND		ug/kg	140	--	1
1,2-Dibromoethane	ND		ug/kg	68	--	1
1,3-Dichloropropane	ND		ug/kg	140	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	--	1
Bromobenzene	ND		ug/kg	140	--	1
n-Butylbenzene	ND		ug/kg	68	--	1
sec-Butylbenzene	ND		ug/kg	68	--	1
tert-Butylbenzene	ND		ug/kg	140	--	1
o-Chlorotoluene	ND		ug/kg	140	--	1
p-Chlorotoluene	ND		ug/kg	140	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--	1
Hexachlorobutadiene	ND		ug/kg	270	--	1
Isopropylbenzene	ND		ug/kg	68	--	1
p-Isopropyltoluene	ND		ug/kg	68	--	1
Naphthalene	1000		ug/kg	270	--	1
n-Propylbenzene	ND		ug/kg	68	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113
Client ID: B-05 (1-3)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	140	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	--	1
Diethyl ether	ND		ug/kg	140	--	1
Diisopropyl Ether	ND		ug/kg	140	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	140	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	140	--	1
1,4-Dioxane	ND		ug/kg	5400	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
 Client ID: B-05 (3-5)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 22:57
 Analyst: NLK
 Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	1.0	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	8.2		ug/kg	0.51	--	1
Chlorobenzene	ND		ug/kg	0.51	--	1
Trichlorofluoromethane	ND		ug/kg	4.1	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	--	1
Bromodichloromethane	ND		ug/kg	0.51	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	--	1
1,1-Dichloropropene	ND		ug/kg	0.51	--	1
Bromoform	ND		ug/kg	4.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	--	1
Benzene	ND		ug/kg	0.51	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.1	--	1
Bromomethane	ND		ug/kg	2.0	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	2.0	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
Client ID: B-05 (3-5)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	--	1
Methyl tert butyl ether	ND		ug/kg	2.0	--	1
p/m-Xylene	ND		ug/kg	2.0	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	2.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	120		ug/kg	10	--	1
Carbon disulfide	ND		ug/kg	10	--	1
Methyl ethyl ketone	ND		ug/kg	10	--	1
Methyl isobutyl ketone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	4.1	--	1
2,2-Dichloropropane	ND		ug/kg	2.0	--	1
1,2-Dibromoethane	ND		ug/kg	1.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	--	1
Bromobenzene	ND		ug/kg	2.0	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	2.0	--	1
o-Chlorotoluene	ND		ug/kg	2.0	--	1
p-Chlorotoluene	ND		ug/kg	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	4.1	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.1	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
Client ID: B-05 (3-5)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--	1
Diethyl ether	ND		ug/kg	2.0	--	1
Diisopropyl Ether	ND		ug/kg	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--	1
1,4-Dioxane	ND		ug/kg	82	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
 Client ID: SB-1 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 20:57
 Analyst: NLK
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.93	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.93	--	1
1,2-Dichloropropane	ND		ug/kg	0.93	--	1
Dibromochloromethane	ND		ug/kg	0.93	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	--	1
Tetrachloroethene	0.91		ug/kg	0.46	--	1
Chlorobenzene	ND		ug/kg	0.46	--	1
Trichlorofluoromethane	ND		ug/kg	3.7	--	1
1,2-Dichloroethane	ND		ug/kg	0.93	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	--	1
Bromodichloromethane	ND		ug/kg	0.46	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	--	1
1,1-Dichloropropene	ND		ug/kg	0.46	--	1
Bromoform	ND		ug/kg	3.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	--	1
Benzene	ND		ug/kg	0.46	--	1
Toluene	ND		ug/kg	0.93	--	1
Ethylbenzene	ND		ug/kg	0.93	--	1
Chloromethane	ND		ug/kg	3.7	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.93	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.93	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.93	--	1
Xylenes, Total	ND		ug/kg	0.93	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.93	--	1
Dichlorodifluoromethane	ND		ug/kg	9.3	--	1
Acetone	280	E	ug/kg	9.3	--	1
Carbon disulfide	ND		ug/kg	9.3	--	1
Methyl ethyl ketone	ND		ug/kg	9.3	--	1
Methyl isobutyl ketone	ND		ug/kg	9.3	--	1
2-Hexanone	ND		ug/kg	9.3	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.7	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.93	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.93	--	1
sec-Butylbenzene	ND		ug/kg	0.93	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.7	--	1
Isopropylbenzene	ND		ug/kg	0.93	--	1
p-Isopropyltoluene	ND		ug/kg	0.93	--	1
Naphthalene	ND		ug/kg	3.7	--	1
n-Propylbenzene	ND		ug/kg	0.93	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	74	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
 Client ID: SB-1 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 20:46
 Analyst: MV
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	270	--	1
1,1-Dichloroethane	ND		ug/kg	54	--	1
Chloroform	ND		ug/kg	81	--	1
Carbon tetrachloride	ND		ug/kg	54	--	1
1,2-Dichloropropane	ND		ug/kg	54	--	1
Dibromochloromethane	ND		ug/kg	54	--	1
1,1,2-Trichloroethane	ND		ug/kg	54	--	1
Tetrachloroethene	45		ug/kg	27	--	1
Chlorobenzene	ND		ug/kg	27	--	1
Trichlorofluoromethane	ND		ug/kg	220	--	1
1,2-Dichloroethane	ND		ug/kg	54	--	1
1,1,1-Trichloroethane	ND		ug/kg	27	--	1
Bromodichloromethane	ND		ug/kg	27	--	1
trans-1,3-Dichloropropene	ND		ug/kg	54	--	1
cis-1,3-Dichloropropene	ND		ug/kg	27	--	1
1,3-Dichloropropene, Total	ND		ug/kg	27	--	1
1,1-Dichloropropene	ND		ug/kg	27	--	1
Bromoform	ND		ug/kg	220	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	--	1
Benzene	ND		ug/kg	27	--	1
Toluene	ND		ug/kg	54	--	1
Ethylbenzene	ND		ug/kg	54	--	1
Chloromethane	ND		ug/kg	220	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	54	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	54	--	1
trans-1,2-Dichloroethene	ND		ug/kg	81	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	27	--	1
1,2-Dichlorobenzene	ND		ug/kg	110	--	1
1,3-Dichlorobenzene	ND		ug/kg	110	--	1
1,4-Dichlorobenzene	ND		ug/kg	110	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	ND		ug/kg	110	--	1
o-Xylene	ND		ug/kg	54	--	1
Xylenes, Total	ND		ug/kg	54	--	1
cis-1,2-Dichloroethene	ND		ug/kg	54	--	1
1,2-Dichloroethene, Total	ND		ug/kg	54	--	1
Dibromomethane	ND		ug/kg	110	--	1
1,2,3-Trichloropropane	ND		ug/kg	110	--	1
Styrene	ND		ug/kg	54	--	1
Dichlorodifluoromethane	ND		ug/kg	540	--	1
Acetone	ND		ug/kg	540	--	1
Carbon disulfide	ND		ug/kg	540	--	1
Methyl ethyl ketone	ND		ug/kg	540	--	1
Methyl isobutyl ketone	ND		ug/kg	540	--	1
2-Hexanone	ND		ug/kg	540	--	1
Bromochloromethane	ND		ug/kg	110	--	1
Tetrahydrofuran	ND		ug/kg	220	--	1
2,2-Dichloropropane	ND		ug/kg	110	--	1
1,2-Dibromoethane	ND		ug/kg	54	--	1
1,3-Dichloropropane	ND		ug/kg	110	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	--	1
Bromobenzene	ND		ug/kg	110	--	1
n-Butylbenzene	ND		ug/kg	54	--	1
sec-Butylbenzene	ND		ug/kg	54	--	1
tert-Butylbenzene	ND		ug/kg	110	--	1
o-Chlorotoluene	ND		ug/kg	110	--	1
p-Chlorotoluene	ND		ug/kg	110	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Isopropylbenzene	ND		ug/kg	54	--	1
p-Isopropyltoluene	ND		ug/kg	54	--	1
Naphthalene	ND		ug/kg	220	--	1
n-Propylbenzene	ND		ug/kg	54	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
 Client ID: SB-1 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	110	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	--	1
Diethyl ether	ND		ug/kg	110	--	1
Diisopropyl Ether	ND		ug/kg	110	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	110	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	110	--	1
1,4-Dioxane	ND		ug/kg	4300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
 Client ID: SB-1 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 21:21
 Analyst: NLK
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.0	--	1
1,1-Dichloroethane	ND		ug/kg	0.79	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.79	--	1
1,2-Dichloropropane	ND		ug/kg	0.79	--	1
Dibromochloromethane	ND		ug/kg	0.79	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.79	--	1
Tetrachloroethene	0.61		ug/kg	0.40	--	1
Chlorobenzene	ND		ug/kg	0.40	--	1
Trichlorofluoromethane	ND		ug/kg	3.2	--	1
1,2-Dichloroethane	ND		ug/kg	0.79	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.40	--	1
Bromodichloromethane	ND		ug/kg	0.40	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.79	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.40	--	1
1,1-Dichloropropene	ND		ug/kg	0.40	--	1
Bromoform	ND		ug/kg	3.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.40	--	1
Benzene	ND		ug/kg	0.40	--	1
Toluene	ND		ug/kg	0.79	--	1
Ethylbenzene	ND		ug/kg	0.79	--	1
Chloromethane	ND		ug/kg	3.2	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	0.79	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.79	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
Client ID: SB-1 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.40	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	0.79	--	1
Xylenes, Total	ND		ug/kg	0.79	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.79	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.79	--	1
Dibromomethane	ND		ug/kg	1.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	--	1
Styrene	ND		ug/kg	0.79	--	1
Dichlorodifluoromethane	ND		ug/kg	7.9	--	1
Acetone	130		ug/kg	7.9	--	1
Carbon disulfide	ND		ug/kg	7.9	--	1
Methyl ethyl ketone	ND		ug/kg	7.9	--	1
Methyl isobutyl ketone	ND		ug/kg	7.9	--	1
2-Hexanone	ND		ug/kg	7.9	--	1
Bromochloromethane	ND		ug/kg	1.6	--	1
Tetrahydrofuran	ND		ug/kg	3.2	--	1
2,2-Dichloropropane	ND		ug/kg	1.6	--	1
1,2-Dibromoethane	ND		ug/kg	0.79	--	1
1,3-Dichloropropane	ND		ug/kg	1.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.40	--	1
Bromobenzene	ND		ug/kg	1.6	--	1
n-Butylbenzene	ND		ug/kg	0.79	--	1
sec-Butylbenzene	ND		ug/kg	0.79	--	1
tert-Butylbenzene	ND		ug/kg	1.6	--	1
o-Chlorotoluene	ND		ug/kg	1.6	--	1
p-Chlorotoluene	ND		ug/kg	1.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	--	1
Hexachlorobutadiene	ND		ug/kg	3.2	--	1
Isopropylbenzene	ND		ug/kg	0.79	--	1
p-Isopropyltoluene	ND		ug/kg	0.79	--	1
Naphthalene	ND		ug/kg	3.2	--	1
n-Propylbenzene	ND		ug/kg	0.79	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
Client ID: SB-1 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	--	1
Diethyl ether	ND		ug/kg	1.6	--	1
Diisopropyl Ether	ND		ug/kg	1.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.6	--	1
1,4-Dioxane	ND		ug/kg	63	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
 Client ID: SB-DUP-1
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 10:33
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.72	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	0.72	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.72	--	1
Tetrachloroethene	0.66		ug/kg	0.36	--	1
Chlorobenzene	ND		ug/kg	0.36	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	--	1
Bromodichloromethane	ND		ug/kg	0.36	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	--	1
1,1-Dichloropropene	ND		ug/kg	0.36	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Benzene	ND		ug/kg	0.36	--	1
Toluene	ND		ug/kg	0.72	--	1
Ethylbenzene	ND		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	0.72	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
Client ID: SB-DUP-1
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.36	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	0.72	--	1
Xylenes, Total	ND		ug/kg	0.72	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	1.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	--	1
Styrene	ND		ug/kg	0.72	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	ND		ug/kg	7.2	--	1
Carbon disulfide	ND		ug/kg	7.2	--	1
Methyl ethyl ketone	ND		ug/kg	7.2	--	1
Methyl isobutyl ketone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	1.4	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.4	--	1
1,2-Dibromoethane	ND		ug/kg	0.72	--	1
1,3-Dichloropropane	ND		ug/kg	1.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Bromobenzene	ND		ug/kg	1.4	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	1.4	--	1
o-Chlorotoluene	ND		ug/kg	1.4	--	1
p-Chlorotoluene	ND		ug/kg	1.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
Client ID: SB-DUP-1
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	--	1
Diethyl ether	ND		ug/kg	1.4	--	1
Diisopropyl Ether	ND		ug/kg	1.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	--	1
1,4-Dioxane	ND		ug/kg	57	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
 Client ID: SB-1 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/15/19 22:33
 Analyst: NLK
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.6	--	1
Chloroform	ND		ug/kg	2.4	--	1
Carbon tetrachloride	ND		ug/kg	1.6	--	1
1,2-Dichloropropane	ND		ug/kg	1.6	--	1
Dibromochloromethane	ND		ug/kg	1.6	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	--	1
Tetrachloroethene	1.4		ug/kg	0.81	--	1
Chlorobenzene	ND		ug/kg	0.81	--	1
Trichlorofluoromethane	ND		ug/kg	6.5	--	1
1,2-Dichloroethane	ND		ug/kg	1.6	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.81	--	1
Bromodichloromethane	ND		ug/kg	0.81	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.81	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.81	--	1
1,1-Dichloropropene	ND		ug/kg	0.81	--	1
Bromoform	ND		ug/kg	6.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.81	--	1
Benzene	ND		ug/kg	0.81	--	1
Toluene	ND		ug/kg	1.6	--	1
Ethylbenzene	ND		ug/kg	1.6	--	1
Chloromethane	ND		ug/kg	6.5	--	1
Bromomethane	ND		ug/kg	3.2	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	3.2	--	1
1,1-Dichloroethene	ND		ug/kg	1.6	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.81	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.2	--	1
Methyl tert butyl ether	ND		ug/kg	3.2	--	1
p/m-Xylene	ND		ug/kg	3.2	--	1
o-Xylene	ND		ug/kg	1.6	--	1
Xylenes, Total	ND		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	--	1
Dibromomethane	ND		ug/kg	3.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.2	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	16	--	1
Acetone	560	E	ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	16	--	1
Methyl ethyl ketone	ND		ug/kg	16	--	1
Methyl isobutyl ketone	ND		ug/kg	16	--	1
2-Hexanone	ND		ug/kg	16	--	1
Bromochloromethane	ND		ug/kg	3.2	--	1
Tetrahydrofuran	ND		ug/kg	6.5	--	1
2,2-Dichloropropane	ND		ug/kg	3.2	--	1
1,2-Dibromoethane	ND		ug/kg	1.6	--	1
1,3-Dichloropropane	ND		ug/kg	3.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.81	--	1
Bromobenzene	ND		ug/kg	3.2	--	1
n-Butylbenzene	ND		ug/kg	1.6	--	1
sec-Butylbenzene	ND		ug/kg	1.6	--	1
tert-Butylbenzene	ND		ug/kg	3.2	--	1
o-Chlorotoluene	ND		ug/kg	3.2	--	1
p-Chlorotoluene	ND		ug/kg	3.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	--	1
Hexachlorobutadiene	ND		ug/kg	6.5	--	1
Isopropylbenzene	ND		ug/kg	1.6	--	1
p-Isopropyltoluene	ND		ug/kg	1.6	--	1
Naphthalene	ND		ug/kg	6.5	--	1
n-Propylbenzene	ND		ug/kg	1.6	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	3.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.2	--	1
Diethyl ether	ND		ug/kg	3.2	--	1
Diisopropyl Ether	ND		ug/kg	3.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.2	--	1
1,4-Dioxane	ND		ug/kg	130	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
 Client ID: SB-1 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8260C
 Analytical Date: 09/16/19 21:10
 Analyst: MV
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	590	--	1
1,1-Dichloroethane	ND		ug/kg	120	--	1
Chloroform	ND		ug/kg	180	--	1
Carbon tetrachloride	ND		ug/kg	120	--	1
1,2-Dichloropropane	ND		ug/kg	120	--	1
Dibromochloromethane	ND		ug/kg	120	--	1
1,1,2-Trichloroethane	ND		ug/kg	120	--	1
Tetrachloroethene	91		ug/kg	59	--	1
Chlorobenzene	ND		ug/kg	59	--	1
Trichlorofluoromethane	ND		ug/kg	470	--	1
1,2-Dichloroethane	ND		ug/kg	120	--	1
1,1,1-Trichloroethane	ND		ug/kg	59	--	1
Bromodichloromethane	ND		ug/kg	59	--	1
trans-1,3-Dichloropropene	ND		ug/kg	120	--	1
cis-1,3-Dichloropropene	ND		ug/kg	59	--	1
1,3-Dichloropropene, Total	ND		ug/kg	59	--	1
1,1-Dichloropropene	ND		ug/kg	59	--	1
Bromoform	ND		ug/kg	470	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	59	--	1
Benzene	ND		ug/kg	59	--	1
Toluene	ND		ug/kg	120	--	1
Ethylbenzene	ND		ug/kg	120	--	1
Chloromethane	ND		ug/kg	470	--	1
Bromomethane	ND		ug/kg	240	--	1
Vinyl chloride	ND		ug/kg	120	--	1
Chloroethane	ND		ug/kg	240	--	1
1,1-Dichloroethene	ND		ug/kg	120	--	1
trans-1,2-Dichloroethene	ND		ug/kg	180	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	59	--	1
1,2-Dichlorobenzene	ND		ug/kg	240	--	1
1,3-Dichlorobenzene	ND		ug/kg	240	--	1
1,4-Dichlorobenzene	ND		ug/kg	240	--	1
Methyl tert butyl ether	ND		ug/kg	240	--	1
p/m-Xylene	ND		ug/kg	240	--	1
o-Xylene	ND		ug/kg	120	--	1
Xylenes, Total	ND		ug/kg	120	--	1
cis-1,2-Dichloroethene	ND		ug/kg	120	--	1
1,2-Dichloroethene, Total	ND		ug/kg	120	--	1
Dibromomethane	ND		ug/kg	240	--	1
1,2,3-Trichloropropane	ND		ug/kg	240	--	1
Styrene	ND		ug/kg	120	--	1
Dichlorodifluoromethane	ND		ug/kg	1200	--	1
Acetone	ND		ug/kg	1200	--	1
Carbon disulfide	ND		ug/kg	1200	--	1
Methyl ethyl ketone	ND		ug/kg	1200	--	1
Methyl isobutyl ketone	ND		ug/kg	1200	--	1
2-Hexanone	ND		ug/kg	1200	--	1
Bromochloromethane	ND		ug/kg	240	--	1
Tetrahydrofuran	ND		ug/kg	470	--	1
2,2-Dichloropropane	ND		ug/kg	240	--	1
1,2-Dibromoethane	ND		ug/kg	120	--	1
1,3-Dichloropropane	ND		ug/kg	240	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	59	--	1
Bromobenzene	ND		ug/kg	240	--	1
n-Butylbenzene	ND		ug/kg	120	--	1
sec-Butylbenzene	ND		ug/kg	120	--	1
tert-Butylbenzene	ND		ug/kg	240	--	1
o-Chlorotoluene	ND		ug/kg	240	--	1
p-Chlorotoluene	ND		ug/kg	240	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	--	1
Hexachlorobutadiene	ND		ug/kg	470	--	1
Isopropylbenzene	ND		ug/kg	120	--	1
p-Isopropyltoluene	ND		ug/kg	120	--	1
Naphthalene	ND		ug/kg	470	--	1
n-Propylbenzene	ND		ug/kg	120	--	1

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	240	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	240	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	240	--	1
Diethyl ether	ND		ug/kg	240	--	1
Diisopropyl Ether	ND		ug/kg	240	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	240	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	240	--	1
1,4-Dioxane	ND		ug/kg	9500	--	1

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/14/19 09:06
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,17,23 Batch: WG1284397-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/14/19 09:06
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,17,23 Batch: WG1284397-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/14/19 09:06
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,17,23 Batch: WG1284397-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,23-24 Batch: WG1284519-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,23-24 Batch: WG1284519-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,23-24 Batch: WG1284519-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1284521-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1284521-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
Batch Quality Control**

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1284521-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/14/19 09:00
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 27,44-45 Batch: WG1284565-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/14/19 09:00
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 27,44-45 Batch: WG1284565-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/14/19 09:00
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 27,44-45 Batch: WG1284565-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	91		70-130

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12,50,113 Batch: WG1284596-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12,50,113 Batch: WG1284596-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12,50,113 Batch: WG1284596-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11,55-56,101,115,138-139,143 Batch: WG1284598-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11,55-56,101,115,138-139,143 Batch: WG1284598-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
Batch Quality Control**

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

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11,55-56,101,115,138-139,143 Batch: WG1284598-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/16/19 08:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 44 Batch: WG1284780-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/16/19 08:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 44 Batch: WG1284780-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/16/19 08:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 44 Batch: WG1284780-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

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

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/16/19 08:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,105,140 Batch: WG1284781-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/16/19 08:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,105,140 Batch: WG1284781-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8260C
Analytical Date: 09/16/19 08:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,105,140 Batch: WG1284781-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

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

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	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 138,143 Batch: WG1284929-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

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	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 138,143 Batch: WG1284929-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

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	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 138,143 Batch: WG1284929-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	91		70-130

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	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27 Batch: WG1285102-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

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	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27 Batch: WG1285102-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

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	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27 Batch: WG1285102-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
Methylene chloride	92		92		70-130	0		20
1,1-Dichloroethane	109		109		70-130	0		20
Chloroform	116		114		70-130	2		20
Carbon tetrachloride	127		123		70-130	3		20
1,2-Dichloropropane	108		107		70-130	1		20
Dibromochloromethane	106		105		70-130	1		20
1,1,2-Trichloroethane	98		96		70-130	2		20
Tetrachloroethene	101		100		70-130	1		20
Chlorobenzene	97		95		70-130	2		20
Trichlorofluoromethane	132	Q	127		70-130	4		20
1,2-Dichloroethane	135	Q	132	Q	70-130	2		20
1,1,1-Trichloroethane	121		118		70-130	3		20
Bromodichloromethane	113		114		70-130	1		20
trans-1,3-Dichloropropene	102		102		70-130	0		20
cis-1,3-Dichloropropene	106		106		70-130	0		20
1,1-Dichloropropene	105		105		70-130	0		20
Bromoform	101		103		70-130	2		20
1,1,2,2-Tetrachloroethane	89		87		70-130	2		20
Benzene	98		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
Vinyl chloride	95		94		70-130	1		20
Chloroethane	83		82		70-130	1		20
1,1-Dichloroethene	87		86		70-130	1		20
trans-1,2-Dichloroethene	95		94		70-130	1		20
Trichloroethene	105		104		70-130	1		20
1,2-Dichlorobenzene	96		96		70-130	0		20
1,3-Dichlorobenzene	97		97		70-130	0		20
1,4-Dichlorobenzene	97		97		70-130	0		20
Methyl tert butyl ether	103		103		70-130	0		20
p/m-Xylene	100		98		70-130	2		20
o-Xylene	98		97		70-130	1		20
cis-1,2-Dichloroethene	102		99		70-130	3		20
Dibromomethane	114		115		70-130	1		20
1,2,3-Trichloropropane	97		96		70-130	1		20
Styrene	98		97		70-130	1		20
Dichlorodifluoromethane	152	Q	148	Q	70-130	3		20
Acetone	112		123		70-130	9		20
Carbon disulfide	85		85		70-130	0		20
Methyl ethyl ketone	113		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
2,2-Dichloropropane	116		114		70-130	2		20
1,2-Dibromoethane	99		100		70-130	1		20
1,3-Dichloropropane	99		98		70-130	1		20
1,1,1,2-Tetrachloroethane	104		104		70-130	0		20
Bromobenzene	92		91		70-130	1		20
n-Butylbenzene	96		94		70-130	2		20
sec-Butylbenzene	91		90		70-130	1		20
tert-Butylbenzene	90		89		70-130	1		20
o-Chlorotoluene	92		90		70-130	2		20
p-Chlorotoluene	90		90		70-130	0		20
1,2-Dibromo-3-chloropropane	97		102		70-130	5		20
Hexachlorobutadiene	96		98		70-130	2		20
Isopropylbenzene	87		86		70-130	1		20
p-Isopropyltoluene	92		91		70-130	1		20
Naphthalene	87		91		70-130	4		20
n-Propylbenzene	90		90		70-130	0		20
1,2,3-Trichlorobenzene	98		100		70-130	2		20
1,2,4-Trichlorobenzene	98		98		70-130	0		20
1,3,5-Trimethylbenzene	91		91		70-130	0		20
1,2,4-Trimethylbenzene	92		92		70-130	0		20
Diethyl ether	77		76		70-130	1		20
Diisopropyl Ether	104		104		70-130	0		20
Ethyl-Tert-Butyl-Ether	103		102		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
Tertiary-Amyl Methyl Ether	94		94		70-130	0		20
1,4-Dioxane	87		91		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		123		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	84		85		70-130
Dibromofluoromethane	104		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
Methylene chloride	96		94		70-130	2		20
1,1-Dichloroethane	106		103		70-130	3		20
Chloroform	104		104		70-130	0		20
Carbon tetrachloride	109		107		70-130	2		20
1,2-Dichloropropane	109		105		70-130	4		20
Dibromochloromethane	100		98		70-130	2		20
1,1,2-Trichloroethane	99		99		70-130	0		20
Tetrachloroethene	99		95		70-130	4		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	128		122		70-130	5		20
1,2-Dichloroethane	113		111		70-130	2		20
1,1,1-Trichloroethane	107		102		70-130	5		20
Bromodichloromethane	104		101		70-130	3		20
trans-1,3-Dichloropropene	98		96		70-130	2		20
cis-1,3-Dichloropropene	102		99		70-130	3		20
1,1-Dichloropropene	103		99		70-130	4		20
Bromoform	100		96		70-130	4		20
1,1,2,2-Tetrachloroethane	94		89		70-130	5		20
Benzene	98		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
Vinyl chloride	103		99		70-130	4		20
Chloroethane	95		91		70-130	4		20
1,1-Dichloroethene	94		87		70-130	8		20
trans-1,2-Dichloroethene	95		93		70-130	2		20
Trichloroethene	102		98		70-130	4		20
1,2-Dichlorobenzene	96		91		70-130	5		20
1,3-Dichlorobenzene	96		91		70-130	5		20
1,4-Dichlorobenzene	96		92		70-130	4		20
Methyl tert butyl ether	98		95		70-130	3		20
p/m-Xylene	96		94		70-130	2		20
o-Xylene	94		92		70-130	2		20
cis-1,2-Dichloroethene	99		96		70-130	3		20
Dibromomethane	108		104		70-130	4		20
1,2,3-Trichloropropane	99		93		70-130	6		20
Styrene	95		91		70-130	4		20
Dichlorodifluoromethane	141	Q	137	Q	70-130	3		20
Acetone	111		108		70-130	3		20
Carbon disulfide	90		85		70-130	6		20
Methyl ethyl ketone	111		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
2,2-Dichloropropane	103		100		70-130	3		20
1,2-Dibromoethane	100		97		70-130	3		20
1,3-Dichloropropane	101		97		70-130	4		20
1,1,1,2-Tetrachloroethane	98		94		70-130	4		20
Bromobenzene	94		90		70-130	4		20
n-Butylbenzene	97		91		70-130	6		20
sec-Butylbenzene	93		89		70-130	4		20
tert-Butylbenzene	92		86		70-130	7		20
o-Chlorotoluene	94		89		70-130	5		20
p-Chlorotoluene	92		88		70-130	4		20
1,2-Dibromo-3-chloropropane	96		92		70-130	4		20
Hexachlorobutadiene	95		90		70-130	5		20
Isopropylbenzene	90		85		70-130	6		20
p-Isopropyltoluene	93		88		70-130	6		20
Naphthalene	90		87		70-130	3		20
n-Propylbenzene	94		88		70-130	7		20
1,2,3-Trichlorobenzene	98		93		70-130	5		20
1,2,4-Trichlorobenzene	99		93		70-130	6		20
1,3,5-Trimethylbenzene	92		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
Tertiary-Amyl Methyl Ether	91		89		70-130	2		20
1,4-Dioxane	88		88		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	91		92		70-130
4-Bromofluorobenzene	89		85		70-130
Dibromofluoromethane	100		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
Methylene chloride	96		94		70-130	2		20
1,1-Dichloroethane	106		103		70-130	3		20
Chloroform	104		104		70-130	0		20
Carbon tetrachloride	109		107		70-130	2		20
1,2-Dichloropropane	109		105		70-130	4		20
Dibromochloromethane	100		98		70-130	2		20
1,1,2-Trichloroethane	99		99		70-130	0		20
Tetrachloroethene	99		95		70-130	4		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	128		122		70-130	5		20
1,2-Dichloroethane	113		111		70-130	2		20
1,1,1-Trichloroethane	107		102		70-130	5		20
Bromodichloromethane	104		101		70-130	3		20
trans-1,3-Dichloropropene	98		96		70-130	2		20
cis-1,3-Dichloropropene	102		99		70-130	3		20
1,1-Dichloropropene	103		99		70-130	4		20
Bromoform	100		96		70-130	4		20
1,1,2,2-Tetrachloroethane	94		89		70-130	5		20
Benzene	98		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
Vinyl chloride	103		99		70-130	4		20
Chloroethane	95		91		70-130	4		20
1,1-Dichloroethene	94		87		70-130	8		20
trans-1,2-Dichloroethene	95		93		70-130	2		20
Trichloroethene	102		98		70-130	4		20
1,2-Dichlorobenzene	96		91		70-130	5		20
1,3-Dichlorobenzene	96		91		70-130	5		20
1,4-Dichlorobenzene	96		92		70-130	4		20
Methyl tert butyl ether	98		95		70-130	3		20
p/m-Xylene	96		94		70-130	2		20
o-Xylene	94		92		70-130	2		20
cis-1,2-Dichloroethene	99		96		70-130	3		20
Dibromomethane	108		104		70-130	4		20
1,2,3-Trichloropropane	99		93		70-130	6		20
Styrene	95		91		70-130	4		20
Dichlorodifluoromethane	141	Q	137	Q	70-130	3		20
Acetone	111		108		70-130	3		20
Carbon disulfide	90		85		70-130	6		20
Methyl ethyl ketone	111		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
2,2-Dichloropropane	103		100		70-130	3		20
1,2-Dibromoethane	100		97		70-130	3		20
1,3-Dichloropropane	101		97		70-130	4		20
1,1,1,2-Tetrachloroethane	98		94		70-130	4		20
Bromobenzene	94		90		70-130	4		20
n-Butylbenzene	97		91		70-130	6		20
sec-Butylbenzene	93		89		70-130	4		20
tert-Butylbenzene	92		86		70-130	7		20
o-Chlorotoluene	94		89		70-130	5		20
p-Chlorotoluene	92		88		70-130	4		20
1,2-Dibromo-3-chloropropane	96		92		70-130	4		20
Hexachlorobutadiene	95		90		70-130	5		20
Isopropylbenzene	90		85		70-130	6		20
p-Isopropyltoluene	93		88		70-130	6		20
Naphthalene	90		87		70-130	3		20
n-Propylbenzene	94		88		70-130	7		20
1,2,3-Trichlorobenzene	98		93		70-130	5		20
1,2,4-Trichlorobenzene	99		93		70-130	6		20
1,3,5-Trimethylbenzene	92		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
Tertiary-Amyl Methyl Ether	91		89		70-130	2		20
1,4-Dioxane	88		88		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	91		92		70-130
4-Bromofluorobenzene	89		86		70-130
Dibromofluoromethane	100		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
Methylene chloride	80		78		70-130	3		20
1,1-Dichloroethane	94		91		70-130	3		20
Chloroform	92		89		70-130	3		20
Carbon tetrachloride	94		91		70-130	3		20
1,2-Dichloropropane	89		88		70-130	1		20
Dibromochloromethane	91		90		70-130	1		20
1,1,2-Trichloroethane	86		83		70-130	4		20
Tetrachloroethene	94		90		70-130	4		20
Chlorobenzene	92		90		70-130	2		20
Trichlorofluoromethane	95		91		70-130	4		20
1,2-Dichloroethane	90		88		70-130	2		20
1,1,1-Trichloroethane	96		93		70-130	3		20
Bromodichloromethane	91		90		70-130	1		20
trans-1,3-Dichloropropene	90		88		70-130	2		20
cis-1,3-Dichloropropene	88		86		70-130	2		20
1,1-Dichloropropene	92		89		70-130	3		20
Bromoform	80		78		70-130	3		20
1,1,2,2-Tetrachloroethane	84		85		70-130	1		20
Benzene	89		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
Vinyl chloride	95		90		70-130	5		20
Chloroethane	87		83		70-130	5		20
1,1-Dichloroethene	91		87		70-130	4		20
trans-1,2-Dichloroethene	92		87		70-130	6		20
Trichloroethene	91		88		70-130	3		20
1,2-Dichlorobenzene	89		88		70-130	1		20
1,3-Dichlorobenzene	93		90		70-130	3		20
1,4-Dichlorobenzene	92		90		70-130	2		20
Methyl tert butyl ether	79		78		70-130	1		20
p/m-Xylene	95		92		70-130	3		20
o-Xylene	92		89		70-130	3		20
cis-1,2-Dichloroethene	88		85		70-130	3		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	82		83		70-130	1		20
Styrene	93		90		70-130	3		20
Dichlorodifluoromethane	100		97		70-130	3		20
Acetone	101		105		70-130	4		20
Carbon disulfide	88		84		70-130	5		20
Methyl ethyl ketone	88		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
2,2-Dichloropropane	91		88		70-130	3		20
1,2-Dibromoethane	87		86		70-130	1		20
1,3-Dichloropropane	85		84		70-130	1		20
1,1,1,2-Tetrachloroethane	95		91		70-130	4		20
Bromobenzene	86		85		70-130	1		20
n-Butylbenzene	98		96		70-130	2		20
sec-Butylbenzene	95		92		70-130	3		20
tert-Butylbenzene	92		90		70-130	2		20
o-Chlorotoluene	94		90		70-130	4		20
p-Chlorotoluene	94		93		70-130	1		20
1,2-Dibromo-3-chloropropane	74		78		70-130	5		20
Hexachlorobutadiene	86		85		70-130	1		20
Isopropylbenzene	94		90		70-130	4		20
p-Isopropyltoluene	95		92		70-130	3		20
Naphthalene	82		83		70-130	1		20
n-Propylbenzene	95		93		70-130	2		20
1,2,3-Trichlorobenzene	87		86		70-130	1		20
1,2,4-Trichlorobenzene	92		90		70-130	2		20
1,3,5-Trimethylbenzene	94		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

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
Tertiary-Amyl Methyl Ether	77		76		70-130	1		20
1,4-Dioxane	96		98		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		100		70-130
Toluene-d8	102		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	95		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
Methylene chloride	89		91		70-130	2		20
1,1-Dichloroethane	104		105		70-130	1		20
Chloroform	101		103		70-130	2		20
Carbon tetrachloride	102		102		70-130	0		20
1,2-Dichloropropane	100		102		70-130	2		20
Dibromochloromethane	98		102		70-130	4		20
1,1,2-Trichloroethane	93		96		70-130	3		20
Tetrachloroethene	98		99		70-130	1		20
Chlorobenzene	99		101		70-130	2		20
Trichlorofluoromethane	103		103		70-130	0		20
1,2-Dichloroethane	100		104		70-130	4		20
1,1,1-Trichloroethane	105		106		70-130	1		20
Bromodichloromethane	101		103		70-130	2		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	101		101		70-130	0		20
Bromoform	87		90		70-130	3		20
1,1,2,2-Tetrachloroethane	96		99		70-130	3		20
Benzene	98		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
Vinyl chloride	104		107		70-130	3		20
Chloroethane	96		95		70-130	1		20
1,1-Dichloroethene	98		98		70-130	0		20
trans-1,2-Dichloroethene	98		99		70-130	1		20
Trichloroethene	100		102		70-130	2		20
1,2-Dichlorobenzene	97		100		70-130	3		20
1,3-Dichlorobenzene	99		102		70-130	3		20
1,4-Dichlorobenzene	100		102		70-130	2		20
Methyl tert butyl ether	90		91		70-130	1		20
p/m-Xylene	101		103		70-130	2		20
o-Xylene	98		101		70-130	3		20
cis-1,2-Dichloroethene	97		97		70-130	0		20
Dibromomethane	94		97		70-130	3		20
1,2,3-Trichloropropane	93		98		70-130	5		20
Styrene	100		102		70-130	2		20
Dichlorodifluoromethane	110		109		70-130	1		20
Acetone	121		118		70-130	3		20
Carbon disulfide	96		95		70-130	1		20
Methyl ethyl ketone	104		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
2,2-Dichloropropane	100		101		70-130	1		20
1,2-Dibromoethane	95		99		70-130	4		20
1,3-Dichloropropane	94		98		70-130	4		20
1,1,1,2-Tetrachloroethane	101		102		70-130	1		20
Bromobenzene	92		95		70-130	3		20
n-Butylbenzene	108		111		70-130	3		20
sec-Butylbenzene	102		105		70-130	3		20
tert-Butylbenzene	100		102		70-130	2		20
o-Chlorotoluene	102		105		70-130	3		20
p-Chlorotoluene	103		106		70-130	3		20
1,2-Dibromo-3-chloropropane	84		91		70-130	8		20
Hexachlorobutadiene	91		93		70-130	2		20
Isopropylbenzene	101		103		70-130	2		20
p-Isopropyltoluene	104		106		70-130	2		20
Naphthalene	91		97		70-130	6		20
n-Propylbenzene	104		106		70-130	2		20
1,2,3-Trichlorobenzene	96		97		70-130	1		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	102		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

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
Tertiary-Amyl Methyl Ether	86		88		70-130	2		20
1,4-Dioxane	88		95		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	97		98		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,143 Batch: WG1284598-3 WG1284598-4								
Methylene chloride	89		91		70-130	2		20
1,1-Dichloroethane	104		105		70-130	1		20
Chloroform	101		103		70-130	2		20
Carbon tetrachloride	102		102		70-130	0		20
1,2-Dichloropropane	100		102		70-130	2		20
Dibromochloromethane	98		102		70-130	4		20
1,1,2-Trichloroethane	93		96		70-130	3		20
Tetrachloroethene	98		99		70-130	1		20
Chlorobenzene	99		101		70-130	2		20
Trichlorofluoromethane	103		103		70-130	0		20
1,2-Dichloroethane	100		104		70-130	4		20
1,1,1-Trichloroethane	105		106		70-130	1		20
Bromodichloromethane	101		103		70-130	2		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	101		101		70-130	0		20
Bromoform	87		90		70-130	3		20
1,1,2,2-Tetrachloroethane	96		99		70-130	3		20
Benzene	98		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,143 Batch: WG1284598-3 WG1284598-4								
Vinyl chloride	104		107		70-130	3		20
Chloroethane	96		95		70-130	1		20
1,1-Dichloroethene	98		98		70-130	0		20
trans-1,2-Dichloroethene	98		99		70-130	1		20
Trichloroethene	100		102		70-130	2		20
1,2-Dichlorobenzene	97		100		70-130	3		20
1,3-Dichlorobenzene	99		102		70-130	3		20
1,4-Dichlorobenzene	100		102		70-130	2		20
Methyl tert butyl ether	90		91		70-130	1		20
p/m-Xylene	101		103		70-130	2		20
o-Xylene	98		101		70-130	3		20
cis-1,2-Dichloroethene	97		97		70-130	0		20
Dibromomethane	94		97		70-130	3		20
1,2,3-Trichloropropane	93		98		70-130	5		20
Styrene	100		102		70-130	2		20
Dichlorodifluoromethane	110		109		70-130	1		20
Acetone	121		118		70-130	3		20
Carbon disulfide	96		95		70-130	1		20
Methyl ethyl ketone	104		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,143 Batch: WG1284598-3 WG1284598-4								
2,2-Dichloropropane	100		101		70-130	1		20
1,2-Dibromoethane	95		99		70-130	4		20
1,3-Dichloropropane	94		98		70-130	4		20
1,1,1,2-Tetrachloroethane	101		102		70-130	1		20
Bromobenzene	92		95		70-130	3		20
n-Butylbenzene	108		111		70-130	3		20
sec-Butylbenzene	102		105		70-130	3		20
tert-Butylbenzene	100		102		70-130	2		20
o-Chlorotoluene	102		105		70-130	3		20
p-Chlorotoluene	103		106		70-130	3		20
1,2-Dibromo-3-chloropropane	84		91		70-130	8		20
Hexachlorobutadiene	91		93		70-130	2		20
Isopropylbenzene	101		103		70-130	2		20
p-Isopropyltoluene	104		106		70-130	2		20
Naphthalene	91		97		70-130	6		20
n-Propylbenzene	104		106		70-130	2		20
1,2,3-Trichlorobenzene	96		97		70-130	1		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	102		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

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,143 Batch: WG1284598-3 WG1284598-4								
Tertiary-Amyl Methyl Ether	86		88		70-130	2		20
1,4-Dioxane	88		95		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
Methylene chloride	90		93		70-130	3		20
1,1-Dichloroethane	107		108		70-130	1		20
Chloroform	105		107		70-130	2		20
Carbon tetrachloride	107		109		70-130	2		20
1,2-Dichloropropane	104		106		70-130	2		20
Dibromochloromethane	104		106		70-130	2		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	102		103		70-130	1		20
Chlorobenzene	103		104		70-130	1		20
Trichlorofluoromethane	106		106		70-130	0		20
1,2-Dichloroethane	105		108		70-130	3		20
1,1,1-Trichloroethane	109		111		70-130	2		20
Bromodichloromethane	106		110		70-130	4		20
trans-1,3-Dichloropropene	103		105		70-130	2		20
cis-1,3-Dichloropropene	102		104		70-130	2		20
1,1-Dichloropropene	104		108		70-130	4		20
Bromoform	91		95		70-130	4		20
1,1,1,2,2-Tetrachloroethane	100		104		70-130	4		20
Benzene	101		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
Vinyl chloride	96		100		70-130	4		20
Chloroethane	94		94		70-130	0		20
1,1-Dichloroethene	100		101		70-130	1		20
trans-1,2-Dichloroethene	101		102		70-130	1		20
Trichloroethene	104		105		70-130	1		20
1,2-Dichlorobenzene	100		102		70-130	2		20
1,3-Dichlorobenzene	102		105		70-130	3		20
1,4-Dichlorobenzene	102		104		70-130	2		20
Methyl tert butyl ether	92		94		70-130	2		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	102		104		70-130	2		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Dibromomethane	98		102		70-130	4		20
1,2,3-Trichloropropane	97		102		70-130	5		20
Styrene	104		106		70-130	2		20
Dichlorodifluoromethane	84		83		70-130	1		20
Acetone	121		134	Q	70-130	10		20
Carbon disulfide	94		96		70-130	2		20
Methyl ethyl ketone	112		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
2,2-Dichloropropane	103		105		70-130	2		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	99		101		70-130	2		20
1,1,1,2-Tetrachloroethane	106		108		70-130	2		20
Bromobenzene	95		98		70-130	3		20
n-Butylbenzene	109		112		70-130	3		20
sec-Butylbenzene	105		108		70-130	3		20
tert-Butylbenzene	102		105		70-130	3		20
o-Chlorotoluene	104		107		70-130	3		20
p-Chlorotoluene	106		109		70-130	3		20
1,2-Dibromo-3-chloropropane	88		93		70-130	6		20
Hexachlorobutadiene	88		90		70-130	2		20
Isopropylbenzene	104		107		70-130	3		20
p-Isopropyltoluene	105		108		70-130	3		20
Naphthalene	96		99		70-130	3		20
n-Propylbenzene	107		109		70-130	2		20
1,2,3-Trichlorobenzene	97		98		70-130	1		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	104		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

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
Tertiary-Amyl Methyl Ether	90		94		70-130	4		20
1,4-Dioxane	88		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
Methylene chloride	90		93		70-130	3		20
1,1-Dichloroethane	107		108		70-130	1		20
Chloroform	105		107		70-130	2		20
Carbon tetrachloride	107		109		70-130	2		20
1,2-Dichloropropane	104		106		70-130	2		20
Dibromochloromethane	104		106		70-130	2		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	102		103		70-130	1		20
Chlorobenzene	103		104		70-130	1		20
Trichlorofluoromethane	106		106		70-130	0		20
1,2-Dichloroethane	105		108		70-130	3		20
1,1,1-Trichloroethane	109		111		70-130	2		20
Bromodichloromethane	106		110		70-130	4		20
trans-1,3-Dichloropropene	103		105		70-130	2		20
cis-1,3-Dichloropropene	102		104		70-130	2		20
1,1-Dichloropropene	104		108		70-130	4		20
Bromoform	91		95		70-130	4		20
1,1,2,2-Tetrachloroethane	100		104		70-130	4		20
Benzene	101		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
Vinyl chloride	96		100		70-130	4		20
Chloroethane	94		94		70-130	0		20
1,1-Dichloroethene	100		101		70-130	1		20
trans-1,2-Dichloroethene	101		102		70-130	1		20
Trichloroethene	104		105		70-130	1		20
1,2-Dichlorobenzene	100		102		70-130	2		20
1,3-Dichlorobenzene	102		105		70-130	3		20
1,4-Dichlorobenzene	102		104		70-130	2		20
Methyl tert butyl ether	92		94		70-130	2		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	102		104		70-130	2		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Dibromomethane	98		102		70-130	4		20
1,2,3-Trichloropropane	97		102		70-130	5		20
Styrene	104		106		70-130	2		20
Dichlorodifluoromethane	84		83		70-130	1		20
Acetone	121		134	Q	70-130	10		20
Carbon disulfide	94		96		70-130	2		20
Methyl ethyl ketone	112		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
2,2-Dichloropropane	103		105		70-130	2		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	99		101		70-130	2		20
1,1,1,2-Tetrachloroethane	106		108		70-130	2		20
Bromobenzene	95		98		70-130	3		20
n-Butylbenzene	109		112		70-130	3		20
sec-Butylbenzene	105		108		70-130	3		20
tert-Butylbenzene	102		105		70-130	3		20
o-Chlorotoluene	104		107		70-130	3		20
p-Chlorotoluene	106		109		70-130	3		20
1,2-Dibromo-3-chloropropane	88		93		70-130	6		20
Hexachlorobutadiene	88		90		70-130	2		20
Isopropylbenzene	104		107		70-130	3		20
p-Isopropyltoluene	105		108		70-130	3		20
Naphthalene	96		99		70-130	3		20
n-Propylbenzene	107		109		70-130	2		20
1,2,3-Trichlorobenzene	97		98		70-130	1		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	104		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

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
Tertiary-Amyl Methyl Ether	90		94		70-130	4		20
1,4-Dioxane	88		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
Methylene chloride	92		92		70-130	0		20
1,1-Dichloroethane	110		109		70-130	1		20
Chloroform	107		106		70-130	1		20
Carbon tetrachloride	108		109		70-130	1		20
1,2-Dichloropropane	101		104		70-130	3		20
Dibromochloromethane	100		100		70-130	0		20
1,1,2-Trichloroethane	96		97		70-130	1		20
Tetrachloroethene	103		103		70-130	0		20
Chlorobenzene	103		103		70-130	0		20
Trichlorofluoromethane	112		110		70-130	2		20
1,2-Dichloroethane	103		104		70-130	1		20
1,1,1-Trichloroethane	111		110		70-130	1		20
Bromodichloromethane	105		105		70-130	0		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	99		101		70-130	2		20
1,1-Dichloropropene	109		108		70-130	1		20
Bromoform	85		86		70-130	1		20
1,1,2,2-Tetrachloroethane	97		99		70-130	2		20
Benzene	104		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
Vinyl chloride	116		113		70-130	3		20
Chloroethane	103		102		70-130	1		20
1,1-Dichloroethene	106		106		70-130	0		20
trans-1,2-Dichloroethene	106		104		70-130	2		20
Trichloroethene	106		106		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	103		103		70-130	0		20
1,4-Dichlorobenzene	102		102		70-130	0		20
Methyl tert butyl ether	88		89		70-130	1		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	103		103		70-130	0		20
cis-1,2-Dichloroethene	101		102		70-130	1		20
Dibromomethane	95		96		70-130	1		20
1,2,3-Trichloropropane	95		98		70-130	3		20
Styrene	103		103		70-130	0		20
Dichlorodifluoromethane	119		118		70-130	1		20
Acetone	133	Q	137	Q	70-130	3		20
Carbon disulfide	103		102		70-130	1		20
Methyl ethyl ketone	113		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
2,2-Dichloropropane	106		105		70-130	1		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	95		96		70-130	1		20
1,1,1,2-Tetrachloroethane	103		103		70-130	0		20
Bromobenzene	96		97		70-130	1		20
n-Butylbenzene	115		116		70-130	1		20
sec-Butylbenzene	111		111		70-130	0		20
tert-Butylbenzene	105		106		70-130	1		20
o-Chlorotoluene	107		108		70-130	1		20
p-Chlorotoluene	107		109		70-130	2		20
1,2-Dibromo-3-chloropropane	85		91		70-130	7		20
Hexachlorobutadiene	97		100		70-130	3		20
Isopropylbenzene	107		107		70-130	0		20
p-Isopropyltoluene	109		110		70-130	1		20
Naphthalene	91		94		70-130	3		20
n-Propylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	94		94		70-130	0		20
1,2,4-Trichlorobenzene	97		98		70-130	1		20
1,3,5-Trimethylbenzene	108		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

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
Tertiary-Amyl Methyl Ether	85		86		70-130	1		20
1,4-Dioxane	94		97		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		102		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	97		95		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
Methylene chloride	93		94		70-130	1		20
1,1-Dichloroethane	99		99		70-130	0		20
Chloroform	97		98		70-130	1		20
Carbon tetrachloride	98		99		70-130	1		20
1,2-Dichloropropane	95		96		70-130	1		20
Dibromochloromethane	94		96		70-130	2		20
1,1,2-Trichloroethane	88		91		70-130	3		20
Tetrachloroethene	97		95		70-130	2		20
Chlorobenzene	94		96		70-130	2		20
Trichlorofluoromethane	99		98		70-130	1		20
1,2-Dichloroethane	97		98		70-130	1		20
1,1,1-Trichloroethane	102		102		70-130	0		20
Bromodichloromethane	97		99		70-130	2		20
trans-1,3-Dichloropropene	93		95		70-130	2		20
cis-1,3-Dichloropropene	94		96		70-130	2		20
1,1-Dichloropropene	98		98		70-130	0		20
Bromoform	84		85		70-130	1		20
1,1,2,2-Tetrachloroethane	89		91		70-130	2		20
Benzene	94		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
Vinyl chloride	99		98		70-130	1		20
Chloroethane	92		89		70-130	3		20
1,1-Dichloroethene	96		96		70-130	0		20
trans-1,2-Dichloroethene	96		96		70-130	0		20
Trichloroethene	96		97		70-130	1		20
1,2-Dichlorobenzene	92		93		70-130	1		20
1,3-Dichlorobenzene	94		95		70-130	1		20
1,4-Dichlorobenzene	94		94		70-130	0		20
Methyl tert butyl ether	86		88		70-130	2		20
p/m-Xylene	97		98		70-130	1		20
o-Xylene	94		95		70-130	1		20
cis-1,2-Dichloroethene	93		94		70-130	1		20
Dibromomethane	93		92		70-130	1		20
1,2,3-Trichloropropane	88		89		70-130	1		20
Styrene	94		96		70-130	2		20
Dichlorodifluoromethane	102		100		70-130	2		20
Acetone	112		115		70-130	3		20
Carbon disulfide	93		93		70-130	0		20
Methyl ethyl ketone	99		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
2,2-Dichloropropane	97		97		70-130	0		20
1,2-Dibromoethane	92		94		70-130	2		20
1,3-Dichloropropane	89		91		70-130	2		20
1,1,1,2-Tetrachloroethane	97		98		70-130	1		20
Bromobenzene	88		89		70-130	1		20
n-Butylbenzene	97		97		70-130	0		20
sec-Butylbenzene	94		95		70-130	1		20
tert-Butylbenzene	93		93		70-130	0		20
o-Chlorotoluene	94		95		70-130	1		20
p-Chlorotoluene	96		96		70-130	0		20
1,2-Dibromo-3-chloropropane	84		85		70-130	1		20
Hexachlorobutadiene	83		83		70-130	0		20
Isopropylbenzene	95		94		70-130	1		20
p-Isopropyltoluene	94		95		70-130	1		20
Naphthalene	88		89		70-130	1		20
n-Propylbenzene	96		97		70-130	1		20
1,2,3-Trichlorobenzene	88		90		70-130	2		20
1,2,4-Trichlorobenzene	92		92		70-130	0		20
1,3,5-Trimethylbenzene	95		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

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
Tertiary-Amyl Methyl Ether	83		85		70-130	2		20
1,4-Dioxane	95		102		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		101		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	96		98		70-130

PETROLEUM HYDROCARBONS

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
 Client ID: B-09 (1-3)
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 08:56
 Analyst: MEO
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	14.1	--	2
C19-C36 Aliphatics	115		mg/kg	14.1	--	2
C11-C22 Aromatics	371		mg/kg	14.1	--	2
C11-C22 Aromatics, Adjusted	245		mg/kg	14.1	--	2
Naphthalene	ND		mg/kg	0.706	--	2
2-Methylnaphthalene	ND		mg/kg	0.706	--	2
Acenaphthylene	ND		mg/kg	0.706	--	2
Acenaphthene	1.02		mg/kg	0.706	--	2
Fluorene	1.14		mg/kg	0.706	--	2
Phenanthrene	13.2		mg/kg	0.706	--	2
Anthracene	3.58		mg/kg	0.706	--	2
Fluoranthene	22.8		mg/kg	0.706	--	2
Pyrene	19.1		mg/kg	0.706	--	2
Benzo(a)anthracene	10.3		mg/kg	0.706	--	2
Chrysene	10.8		mg/kg	0.706	--	2
Benzo(b)fluoranthene	9.48		mg/kg	0.706	--	2
Benzo(k)fluoranthene	9.16		mg/kg	0.706	--	2
Benzo(a)pyrene	10.0		mg/kg	0.706	--	2
Indeno(1,2,3-cd)Pyrene	6.97		mg/kg	0.706	--	2
Dibenzo(a,h)anthracene	1.90		mg/kg	0.706	--	2
Benzo(ghi)perylene	6.04		mg/kg	0.706	--	2

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-101

Date Collected: 09/05/19 09:54

Client ID: B-09 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	69		40-140
2-Fluorobiphenyl	88		40-140
2-Bromonaphthalene	87		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/16/19 16:38
 Analyst: MEO
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	27.5	--	4
C19-C36 Aliphatics	136		mg/kg	27.5	--	4
C11-C22 Aromatics	503		mg/kg	27.5	--	4
C11-C22 Aromatics, Adjusted	315		mg/kg	27.5	--	4
Naphthalene	ND		mg/kg	1.37	--	4
2-Methylnaphthalene	ND		mg/kg	1.37	--	4
Acenaphthylene	ND		mg/kg	1.37	--	4
Acenaphthene	2.13		mg/kg	1.37	--	4
Fluorene	2.42		mg/kg	1.37	--	4
Phenanthrene	21.7		mg/kg	1.37	--	4
Anthracene	6.27		mg/kg	1.37	--	4
Fluoranthene	34.7		mg/kg	1.37	--	4
Pyrene	28.9		mg/kg	1.37	--	4
Benzo(a)anthracene	15.5		mg/kg	1.37	--	4
Chrysene	15.9		mg/kg	1.37	--	4
Benzo(b)fluoranthene	13.7		mg/kg	1.37	--	4
Benzo(k)fluoranthene	13.1		mg/kg	1.37	--	4
Benzo(a)pyrene	13.8		mg/kg	1.37	--	4
Indeno(1,2,3-cd)Pyrene	9.12		mg/kg	1.37	--	4
Dibenzo(a,h)anthracene	2.60		mg/kg	1.37	--	4
Benzo(ghi)perylene	7.64		mg/kg	1.37	--	4

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-105 D

Date Collected: 09/05/19 10:02

Client ID: B-09 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	54		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	77		40-140
2-Bromonaphthalene	76		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
 Client ID: SB-4 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 03:15
 Analyst: MEO
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.74	--	1
C19-C36 Aliphatics	ND		mg/kg	6.74	--	1
C11-C22 Aromatics	12.6		mg/kg	6.74	--	1
C11-C22 Aromatics, Adjusted	11.7		mg/kg	6.74	--	1
Naphthalene	ND		mg/kg	0.337	--	1
2-Methylnaphthalene	ND		mg/kg	0.337	--	1
Acenaphthylene	ND		mg/kg	0.337	--	1
Acenaphthene	ND		mg/kg	0.337	--	1
Fluorene	ND		mg/kg	0.337	--	1
Phenanthrene	ND		mg/kg	0.337	--	1
Anthracene	ND		mg/kg	0.337	--	1
Fluoranthene	0.418		mg/kg	0.337	--	1
Pyrene	0.395		mg/kg	0.337	--	1
Benzo(a)anthracene	ND		mg/kg	0.337	--	1
Chrysene	ND		mg/kg	0.337	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.337	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.337	--	1
Benzo(a)pyrene	ND		mg/kg	0.337	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.337	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.337	--	1
Benzo(ghi)perylene	ND		mg/kg	0.337	--	1

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-11

Date Collected: 09/04/19 08:50

Client ID: SB-4 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	58		40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	73		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-113 D
 Client ID: B-05 (1-3)
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/16/19 15:20
 Analyst: MEO
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	36.4	--	5
C19-C36 Aliphatics	57.2		mg/kg	36.4	--	5
C11-C22 Aromatics	408		mg/kg	36.4	--	5
C11-C22 Aromatics, Adjusted	252		mg/kg	36.4	--	5
Naphthalene	ND		mg/kg	1.82	--	5
2-Methylnaphthalene	ND		mg/kg	1.82	--	5
Acenaphthylene	ND		mg/kg	1.82	--	5
Acenaphthene	2.25		mg/kg	1.82	--	5
Fluorene	2.56		mg/kg	1.82	--	5
Phenanthrene	26.6		mg/kg	1.82	--	5
Anthracene	7.11		mg/kg	1.82	--	5
Fluoranthene	29.9		mg/kg	1.82	--	5
Pyrene	24.4		mg/kg	1.82	--	5
Benzo(a)anthracene	12.7		mg/kg	1.82	--	5
Chrysene	12.5		mg/kg	1.82	--	5
Benzo(b)fluoranthene	8.56		mg/kg	1.82	--	5
Benzo(k)fluoranthene	8.82		mg/kg	1.82	--	5
Benzo(a)pyrene	9.76		mg/kg	1.82	--	5
Indeno(1,2,3-cd)Pyrene	5.97		mg/kg	1.82	--	5
Dibenzo(a,h)anthracene	ND		mg/kg	1.82	--	5
Benzo(ghi)perylene	5.06		mg/kg	1.82	--	5

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-113 D

Date Collected: 09/05/19 10:54

Client ID: B-05 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	82		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
 Client ID: B-05 (3-5)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 05:08
 Analyst: MEO
 Percent Solids: 69%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.33	--	1
C19-C36 Aliphatics	ND		mg/kg	9.33	--	1
C11-C22 Aromatics	64.4		mg/kg	9.33	--	1
C11-C22 Aromatics, Adjusted	48.8		mg/kg	9.33	--	1
Naphthalene	ND		mg/kg	0.466	--	1
2-Methylnaphthalene	ND		mg/kg	0.466	--	1
Acenaphthylene	ND		mg/kg	0.466	--	1
Acenaphthene	0.500		mg/kg	0.466	--	1
Fluorene	ND		mg/kg	0.466	--	1
Phenanthrene	2.60		mg/kg	0.466	--	1
Anthracene	0.490		mg/kg	0.466	--	1
Fluoranthene	2.74		mg/kg	0.466	--	1
Pyrene	2.34		mg/kg	0.466	--	1
Benzo(a)anthracene	1.14		mg/kg	0.466	--	1
Chrysene	1.33		mg/kg	0.466	--	1
Benzo(b)fluoranthene	1.04		mg/kg	0.466	--	1
Benzo(k)fluoranthene	1.07		mg/kg	0.466	--	1
Benzo(a)pyrene	1.07		mg/kg	0.466	--	1
Indeno(1,2,3-cd)Pyrene	0.719		mg/kg	0.466	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.466	--	1
Benzo(ghi)perylene	0.580		mg/kg	0.466	--	1



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-115

Date Collected: 09/05/19 10:57

Client ID: B-05 (3-5)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	69		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
 Client ID: SB-4 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 03:52
 Analyst: MEO
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.80	--	1
C19-C36 Aliphatics	16.6		mg/kg	6.80	--	1
C11-C22 Aromatics	48.6		mg/kg	6.80	--	1
C11-C22 Aromatics, Adjusted	35.0		mg/kg	6.80	--	1
Naphthalene	ND		mg/kg	0.340	--	1
2-Methylnaphthalene	ND		mg/kg	0.340	--	1
Acenaphthylene	ND		mg/kg	0.340	--	1
Acenaphthene	ND		mg/kg	0.340	--	1
Fluorene	ND		mg/kg	0.340	--	1
Phenanthrene	0.759		mg/kg	0.340	--	1
Anthracene	ND		mg/kg	0.340	--	1
Fluoranthene	1.98		mg/kg	0.340	--	1
Pyrene	1.82		mg/kg	0.340	--	1
Benzo(a)anthracene	1.38		mg/kg	0.340	--	1
Chrysene	1.38		mg/kg	0.340	--	1
Benzo(b)fluoranthene	1.29		mg/kg	0.340	--	1
Benzo(k)fluoranthene	1.34		mg/kg	0.340	--	1
Benzo(a)pyrene	1.52		mg/kg	0.340	--	1
Indeno(1,2,3-cd)Pyrene	1.06		mg/kg	0.340	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.340	--	1
Benzo(ghi)perylene	0.982		mg/kg	0.340	--	1

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-12

Date Collected: 09/04/19 08:40

Client ID: SB-4 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	57		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	67		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
 Client ID: SB-1 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 09:34
 Analyst: MEO
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	13.8	--	2
C19-C36 Aliphatics	113		mg/kg	13.8	--	2
C11-C22 Aromatics	284		mg/kg	13.8	--	2
C11-C22 Aromatics, Adjusted	203		mg/kg	13.8	--	2
Naphthalene	ND		mg/kg	0.690	--	2
2-Methylnaphthalene	ND		mg/kg	0.690	--	2
Acenaphthylene	ND		mg/kg	0.690	--	2
Acenaphthene	1.31		mg/kg	0.690	--	2
Fluorene	1.10		mg/kg	0.690	--	2
Phenanthrene	12.3		mg/kg	0.690	--	2
Anthracene	2.75		mg/kg	0.690	--	2
Fluoranthene	14.6		mg/kg	0.690	--	2
Pyrene	12.6		mg/kg	0.690	--	2
Benzo(a)anthracene	6.30		mg/kg	0.690	--	2
Chrysene	6.78		mg/kg	0.690	--	2
Benzo(b)fluoranthene	4.96		mg/kg	0.690	--	2
Benzo(k)fluoranthene	5.25		mg/kg	0.690	--	2
Benzo(a)pyrene	5.73		mg/kg	0.690	--	2
Indeno(1,2,3-cd)Pyrene	3.58		mg/kg	0.690	--	2
Dibenzo(a,h)anthracene	1.11		mg/kg	0.690	--	2
Benzo(ghi)perylene	3.06		mg/kg	0.690	--	2

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-138

Date Collected: 09/05/19 13:36

Client ID: SB-1 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139 D
 Client ID: SB-1 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/16/19 15:59
 Analyst: MEO
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	71.7	--	10
C19-C36 Aliphatics	ND		mg/kg	71.7	--	10
C11-C22 Aromatics	460		mg/kg	71.7	--	10
C11-C22 Aromatics, Adjusted	271		mg/kg	71.7	--	10
Naphthalene	ND		mg/kg	3.58	--	10
2-Methylnaphthalene	ND		mg/kg	3.58	--	10
Acenaphthylene	ND		mg/kg	3.58	--	10
Acenaphthene	ND		mg/kg	3.58	--	10
Fluorene	ND		mg/kg	3.58	--	10
Phenanthrene	40.9		mg/kg	3.58	--	10
Anthracene	7.37		mg/kg	3.58	--	10
Fluoranthene	37.2		mg/kg	3.58	--	10
Pyrene	28.6		mg/kg	3.58	--	10
Benzo(a)anthracene	14.2		mg/kg	3.58	--	10
Chrysene	13.8		mg/kg	3.58	--	10
Benzo(b)fluoranthene	10.5		mg/kg	3.58	--	10
Benzo(k)fluoranthene	11.5		mg/kg	3.58	--	10
Benzo(a)pyrene	11.9		mg/kg	3.58	--	10
Indeno(1,2,3-cd)Pyrene	7.27		mg/kg	3.58	--	10
Dibenzo(a,h)anthracene	ND		mg/kg	3.58	--	10
Benzo(ghi)perylene	6.20		mg/kg	3.58	--	10

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-139 D

Date Collected: 09/05/19 13:39

Client ID: SB-1 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	67		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
 Client ID: SB-DUP-1
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 12:46
 Analyst: MEO
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:55
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	13.9	--	2
C19-C36 Aliphatics	199		mg/kg	13.9	--	2
C11-C22 Aromatics	457		mg/kg	13.9	--	2
C11-C22 Aromatics, Adjusted	315		mg/kg	13.9	--	2
Naphthalene	0.919		mg/kg	0.696	--	2
2-Methylnaphthalene	ND		mg/kg	0.696	--	2
Acenaphthylene	ND		mg/kg	0.696	--	2
Acenaphthene	1.97		mg/kg	0.696	--	2
Fluorene	1.76		mg/kg	0.696	--	2
Phenanthrene	21.4		mg/kg	0.696	--	2
Anthracene	4.66		mg/kg	0.696	--	2
Fluoranthene	25.9		mg/kg	0.696	--	2
Pyrene	21.8		mg/kg	0.696	--	2
Benzo(a)anthracene	10.2		mg/kg	0.696	--	2
Chrysene	11.8		mg/kg	0.696	--	2
Benzo(b)fluoranthene	8.91		mg/kg	0.696	--	2
Benzo(k)fluoranthene	8.80		mg/kg	0.696	--	2
Benzo(a)pyrene	9.72		mg/kg	0.696	--	2
Indeno(1,2,3-cd)Pyrene	6.32		mg/kg	0.696	--	2
Dibenzo(a,h)anthracene	1.84		mg/kg	0.696	--	2
Benzo(ghi)perylene	5.53		mg/kg	0.696	--	2



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-140
 Client ID: SB-DUP-1
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	84		40-140
2-Fluorobiphenyl	91		40-140
2-Bromonaphthalene	90		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
 Client ID: SB-1 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 20:54
 Analyst: SR
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.22	--	1
C19-C36 Aliphatics	98.5		mg/kg	8.22	--	1
C11-C22 Aromatics	79.3		mg/kg	8.22	--	1
C11-C22 Aromatics, Adjusted	59.3		mg/kg	8.22	--	1
Naphthalene	ND		mg/kg	0.411	--	1
2-Methylnaphthalene	ND		mg/kg	0.411	--	1
Acenaphthylene	ND		mg/kg	0.411	--	1
Acenaphthene	ND		mg/kg	0.411	--	1
Fluorene	ND		mg/kg	0.411	--	1
Phenanthrene	2.98		mg/kg	0.411	--	1
Anthracene	0.720		mg/kg	0.411	--	1
Fluoranthene	3.67		mg/kg	0.411	--	1
Pyrene	2.97		mg/kg	0.411	--	1
Benzo(a)anthracene	1.68		mg/kg	0.411	--	1
Chrysene	1.80		mg/kg	0.411	--	1
Benzo(b)fluoranthene	1.40		mg/kg	0.411	--	1
Benzo(k)fluoranthene	1.40		mg/kg	0.411	--	1
Benzo(a)pyrene	1.47		mg/kg	0.411	--	1
Indeno(1,2,3-cd)Pyrene	1.06		mg/kg	0.411	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.411	--	1
Benzo(ghi)perylene	0.901		mg/kg	0.411	--	1

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-143

Date Collected: 09/05/19 13:48

Client ID: SB-1 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	40		40-140
o-Terphenyl	57		40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	76		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 05:46
 Analyst: MEO
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.54	--	1
C19-C36 Aliphatics	18.1		mg/kg	8.54	--	1
C11-C22 Aromatics	21.9		mg/kg	8.54	--	1
C11-C22 Aromatics, Adjusted	21.9		mg/kg	8.54	--	1
Naphthalene	ND		mg/kg	0.427	--	1
2-Methylnaphthalene	ND		mg/kg	0.427	--	1
Acenaphthylene	ND		mg/kg	0.427	--	1
Acenaphthene	ND		mg/kg	0.427	--	1
Fluorene	ND		mg/kg	0.427	--	1
Phenanthrene	ND		mg/kg	0.427	--	1
Anthracene	ND		mg/kg	0.427	--	1
Fluoranthene	ND		mg/kg	0.427	--	1
Pyrene	ND		mg/kg	0.427	--	1
Benzo(a)anthracene	ND		mg/kg	0.427	--	1
Chrysene	ND		mg/kg	0.427	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.427	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.427	--	1
Benzo(a)pyrene	ND		mg/kg	0.427	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.427	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.427	--	1
Benzo(ghi)perylene	ND		mg/kg	0.427	--	1

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-15

Date Collected: 09/04/19 09:10

Client ID: SB-4 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	65		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
 Client ID: SB-3 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 11:29
 Analyst: MEO
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	13.8	--	2
C19-C36 Aliphatics	90.0		mg/kg	13.8	--	2
C11-C22 Aromatics	149		mg/kg	13.8	--	2
C11-C22 Aromatics, Adjusted	130		mg/kg	13.8	--	2
Naphthalene	ND		mg/kg	0.689	--	2
2-Methylnaphthalene	ND		mg/kg	0.689	--	2
Acenaphthylene	ND		mg/kg	0.689	--	2
Acenaphthene	ND		mg/kg	0.689	--	2
Fluorene	ND		mg/kg	0.689	--	2
Phenanthrene	1.97		mg/kg	0.689	--	2
Anthracene	ND		mg/kg	0.689	--	2
Fluoranthene	3.15		mg/kg	0.689	--	2
Pyrene	2.77		mg/kg	0.689	--	2
Benzo(a)anthracene	1.54		mg/kg	0.689	--	2
Chrysene	1.80		mg/kg	0.689	--	2
Benzo(b)fluoranthene	1.54		mg/kg	0.689	--	2
Benzo(k)fluoranthene	1.62		mg/kg	0.689	--	2
Benzo(a)pyrene	1.65		mg/kg	0.689	--	2
Indeno(1,2,3-cd)Pyrene	1.17		mg/kg	0.689	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.689	--	2
Benzo(ghi)perylene	1.01		mg/kg	0.689	--	2

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-17

Date Collected: 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:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 08:18
 Analyst: MEO
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	14.0	--	2
C19-C36 Aliphatics	50.9		mg/kg	14.0	--	2
C11-C22 Aromatics	195		mg/kg	14.0	--	2
C11-C22 Aromatics, Adjusted	137		mg/kg	14.0	--	2
Naphthalene	ND		mg/kg	0.699	--	2
2-Methylnaphthalene	ND		mg/kg	0.699	--	2
Acenaphthylene	ND		mg/kg	0.699	--	2
Acenaphthene	0.973		mg/kg	0.699	--	2
Fluorene	0.752		mg/kg	0.699	--	2
Phenanthrene	7.18		mg/kg	0.699	--	2
Anthracene	1.77		mg/kg	0.699	--	2
Fluoranthene	10.3		mg/kg	0.699	--	2
Pyrene	8.53		mg/kg	0.699	--	2
Benzo(a)anthracene	4.62		mg/kg	0.699	--	2
Chrysene	4.72		mg/kg	0.699	--	2
Benzo(b)fluoranthene	4.07		mg/kg	0.699	--	2
Benzo(k)fluoranthene	3.89		mg/kg	0.699	--	2
Benzo(a)pyrene	4.45		mg/kg	0.699	--	2
Indeno(1,2,3-cd)Pyrene	3.14		mg/kg	0.699	--	2
Dibenzo(a,h)anthracene	0.818		mg/kg	0.699	--	2
Benzo(ghi)perylene	2.82		mg/kg	0.699	--	2

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-18

Date Collected: 09/04/19 09:30

Client ID: SB-3 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	71		40-140
2-Bromonaphthalene	71		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
 Client ID: SB-3 (5-7)-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 10:12
 Analyst: MEO
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	15.8	--	2
C19-C36 Aliphatics	215		mg/kg	15.8	--	2
C11-C22 Aromatics	164		mg/kg	15.8	--	2
C11-C22 Aromatics, Adjusted	147		mg/kg	15.8	--	2
Naphthalene	ND		mg/kg	0.788	--	2
2-Methylnaphthalene	ND		mg/kg	0.788	--	2
Acenaphthylene	ND		mg/kg	0.788	--	2
Acenaphthene	ND		mg/kg	0.788	--	2
Fluorene	ND		mg/kg	0.788	--	2
Phenanthrene	2.01		mg/kg	0.788	--	2
Anthracene	ND		mg/kg	0.788	--	2
Fluoranthene	2.78		mg/kg	0.788	--	2
Pyrene	2.46		mg/kg	0.788	--	2
Benzo(a)anthracene	1.33		mg/kg	0.788	--	2
Chrysene	1.55		mg/kg	0.788	--	2
Benzo(b)fluoranthene	1.30		mg/kg	0.788	--	2
Benzo(k)fluoranthene	1.44		mg/kg	0.788	--	2
Benzo(a)pyrene	1.39		mg/kg	0.788	--	2
Indeno(1,2,3-cd)Pyrene	1.05		mg/kg	0.788	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.788	--	2
Benzo(ghi)perylene	0.935		mg/kg	0.788	--	2



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-21

Date Collected: 09/04/19 09:40

Client ID: SB-3 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	68		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
 Client ID: SB-2 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 13:25
 Analyst: MEO
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	14.6	--	2
C19-C36 Aliphatics	418		mg/kg	14.6	--	2
C11-C22 Aromatics	305		mg/kg	14.6	--	2
C11-C22 Aromatics, Adjusted	265		mg/kg	14.6	--	2
Naphthalene	ND		mg/kg	0.728	--	2
2-Methylnaphthalene	ND		mg/kg	0.728	--	2
Acenaphthylene	ND		mg/kg	0.728	--	2
Acenaphthene	ND		mg/kg	0.728	--	2
Fluorene	ND		mg/kg	0.728	--	2
Phenanthrene	5.13		mg/kg	0.728	--	2
Anthracene	1.24		mg/kg	0.728	--	2
Fluoranthene	7.38		mg/kg	0.728	--	2
Pyrene	6.52		mg/kg	0.728	--	2
Benzo(a)anthracene	3.49		mg/kg	0.728	--	2
Chrysene	3.46		mg/kg	0.728	--	2
Benzo(b)fluoranthene	2.96		mg/kg	0.728	--	2
Benzo(k)fluoranthene	2.89		mg/kg	0.728	--	2
Benzo(a)pyrene	3.21		mg/kg	0.728	--	2
Indeno(1,2,3-cd)Pyrene	2.11		mg/kg	0.728	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.728	--	2
Benzo(ghi)perylene	1.83		mg/kg	0.728	--	2

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-23

Date Collected: 09/04/19 10:05

Client ID: SB-2 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	62		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	67		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
 Client ID: SB-2 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 04:30
 Analyst: MEO
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.07	--	1
C19-C36 Aliphatics	17.0		mg/kg	7.07	--	1
C11-C22 Aromatics	162		mg/kg	7.07	--	1
C11-C22 Aromatics, Adjusted	102		mg/kg	7.07	--	1
Naphthalene	ND		mg/kg	0.353	--	1
2-Methylnaphthalene	ND		mg/kg	0.353	--	1
Acenaphthylene	ND		mg/kg	0.353	--	1
Acenaphthene	0.930		mg/kg	0.353	--	1
Fluorene	0.689		mg/kg	0.353	--	1
Phenanthrene	7.08		mg/kg	0.353	--	1
Anthracene	1.44		mg/kg	0.353	--	1
Fluoranthene	10.3		mg/kg	0.353	--	1
Pyrene	8.71		mg/kg	0.353	--	1
Benzo(a)anthracene	5.54		mg/kg	0.353	--	1
Chrysene	5.61		mg/kg	0.353	--	1
Benzo(b)fluoranthene	4.36		mg/kg	0.353	--	1
Benzo(k)fluoranthene	4.34		mg/kg	0.353	--	1
Benzo(a)pyrene	4.63		mg/kg	0.353	--	1
Indeno(1,2,3-cd)Pyrene	2.77		mg/kg	0.353	--	1
Dibenzo(a,h)anthracene	0.775		mg/kg	0.353	--	1
Benzo(ghi)perylene	2.30		mg/kg	0.353	--	1

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-24

Date Collected: 09/04/19 10:07

Client ID: SB-2 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	49		40-140
o-Terphenyl	46		40-140
2-Fluorobiphenyl	66		40-140
2-Bromonaphthalene	66		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27 D
 Client ID: SB-2 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 03:19
 Analyst: MEO
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	319	--	40
C19-C36 Aliphatics	56800		mg/kg	319	--	40
C11-C22 Aromatics	1200		mg/kg	319	--	40
C11-C22 Aromatics, Adjusted	1120		mg/kg	319	--	40
Naphthalene	ND		mg/kg	15.9	--	40
2-Methylnaphthalene	ND		mg/kg	15.9	--	40
Acenaphthylene	ND		mg/kg	15.9	--	40
Acenaphthene	ND		mg/kg	15.9	--	40
Fluorene	ND		mg/kg	15.9	--	40
Phenanthrene	24.0		mg/kg	15.9	--	40
Anthracene	ND		mg/kg	15.9	--	40
Fluoranthene	25.2		mg/kg	15.9	--	40
Pyrene	22.3		mg/kg	15.9	--	40
Benzo(a)anthracene	ND		mg/kg	15.9	--	40
Chrysene	ND		mg/kg	15.9	--	40
Benzo(b)fluoranthene	ND		mg/kg	15.9	--	40
Benzo(k)fluoranthene	ND		mg/kg	15.9	--	40
Benzo(a)pyrene	ND		mg/kg	15.9	--	40
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	15.9	--	40
Dibenzo(a,h)anthracene	ND		mg/kg	15.9	--	40
Benzo(ghi)perylene	ND		mg/kg	15.9	--	40

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:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	85		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44 D
 Client ID: D-07 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 03:51
 Analyst: MEO
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 09/11/19 00:54
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/11/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	141	--	20
C19-C36 Aliphatics	240		mg/kg	141	--	20
C11-C22 Aromatics	2140		mg/kg	141	--	20
C11-C22 Aromatics, Adjusted	1330		mg/kg	141	--	20
Naphthalene	ND		mg/kg	7.07	--	20
2-Methylnaphthalene	ND		mg/kg	7.07	--	20
Acenaphthylene	ND		mg/kg	7.07	--	20
Acenaphthene	10.2		mg/kg	7.07	--	20
Fluorene	12.2		mg/kg	7.07	--	20
Phenanthrene	110		mg/kg	7.07	--	20
Anthracene	29.5		mg/kg	7.07	--	20
Fluoranthene	130		mg/kg	7.07	--	20
Pyrene	107		mg/kg	7.07	--	20
Benzo(a)anthracene	64.9		mg/kg	7.07	--	20
Chrysene	71.8		mg/kg	7.07	--	20
Benzo(b)fluoranthene	58.0		mg/kg	7.07	--	20
Benzo(k)fluoranthene	48.8		mg/kg	7.07	--	20
Benzo(a)pyrene	64.4		mg/kg	7.07	--	20
Indeno(1,2,3-cd)Pyrene	49.3		mg/kg	7.07	--	20
Dibenzo(a,h)anthracene	12.9		mg/kg	7.07	--	20
Benzo(ghi)perylene	44.4		mg/kg	7.07	--	20

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-44 D

Date Collected: 09/04/19 12:16

Client ID: D-07 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	86		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
 Client ID: D-07 (7-9)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/14/19 18:13
 Analyst: SR
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.58	--	1
C19-C36 Aliphatics	18.5		mg/kg	8.58	--	1
C11-C22 Aromatics	73.4		mg/kg	8.58	--	1
C11-C22 Aromatics, Adjusted	51.7		mg/kg	8.58	--	1
Naphthalene	ND		mg/kg	0.429	--	1
2-Methylnaphthalene	ND		mg/kg	0.429	--	1
Acenaphthylene	ND		mg/kg	0.429	--	1
Acenaphthene	1.66		mg/kg	0.429	--	1
Fluorene	ND		mg/kg	0.429	--	1
Phenanthrene	2.46		mg/kg	0.429	--	1
Anthracene	0.843		mg/kg	0.429	--	1
Fluoranthene	3.73		mg/kg	0.429	--	1
Pyrene	3.03		mg/kg	0.429	--	1
Benzo(a)anthracene	1.60		mg/kg	0.429	--	1
Chrysene	1.87		mg/kg	0.429	--	1
Benzo(b)fluoranthene	1.34		mg/kg	0.429	--	1
Benzo(k)fluoranthene	1.40		mg/kg	0.429	--	1
Benzo(a)pyrene	1.60		mg/kg	0.429	--	1
Indeno(1,2,3-cd)Pyrene	1.10		mg/kg	0.429	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.429	--	1
Benzo(ghi)perylene	1.04		mg/kg	0.429	--	1

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-45

Date Collected: 09/04/19 12:30

Client ID: D-07 (7-9)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	76		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	81		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50 D
 Client ID: SB-DUP-5
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 01:10
 Analyst: MEO
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	43.6	--	6
C19-C36 Aliphatics	223		mg/kg	43.6	--	6
C11-C22 Aromatics	1160		mg/kg	43.6	--	6
C11-C22 Aromatics, Adjusted	713		mg/kg	43.6	--	6
Naphthalene	2.63		mg/kg	2.18	--	6
2-Methylnaphthalene	ND		mg/kg	2.18	--	6
Acenaphthylene	ND		mg/kg	2.18	--	6
Acenaphthene	5.69		mg/kg	2.18	--	6
Fluorene	6.74		mg/kg	2.18	--	6
Phenanthrene	61.8		mg/kg	2.18	--	6
Anthracene	15.7		mg/kg	2.18	--	6
Fluoranthene	79.0		mg/kg	2.18	--	6
Pyrene	66.4		mg/kg	2.18	--	6
Benzo(a)anthracene	37.2		mg/kg	2.18	--	6
Chrysene	38.3		mg/kg	2.18	--	6
Benzo(b)fluoranthene	30.8		mg/kg	2.18	--	6
Benzo(k)fluoranthene	27.4		mg/kg	2.18	--	6
Benzo(a)pyrene	31.6		mg/kg	2.18	--	6
Indeno(1,2,3-cd)Pyrene	21.3		mg/kg	2.18	--	6
Dibenzo(a,h)anthracene	6.06		mg/kg	2.18	--	6
Benzo(ghi)perylene	17.6		mg/kg	2.18	--	6

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-50 D

Date Collected: 09/04/19 00:00

Client ID: SB-DUP-5

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	74		40-140
o-Terphenyl	250	Q	40-140
2-Fluorobiphenyl	81		40-140
2-Bromonaphthalene	81		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55 D
 Client ID: E-06 (1-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 01:42
 Analyst: MEO
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	35.0	--	5
C19-C36 Aliphatics	236		mg/kg	35.0	--	5
C11-C22 Aromatics	385		mg/kg	35.0	--	5
C11-C22 Aromatics, Adjusted	273		mg/kg	35.0	--	5
Naphthalene	ND		mg/kg	1.75	--	5
2-Methylnaphthalene	ND		mg/kg	1.75	--	5
Acenaphthylene	ND		mg/kg	1.75	--	5
Acenaphthene	ND		mg/kg	1.75	--	5
Fluorene	ND		mg/kg	1.75	--	5
Phenanthrene	12.0		mg/kg	1.75	--	5
Anthracene	3.43		mg/kg	1.75	--	5
Fluoranthene	19.5		mg/kg	1.75	--	5
Pyrene	17.1		mg/kg	1.75	--	5
Benzo(a)anthracene	9.22		mg/kg	1.75	--	5
Chrysene	10.4		mg/kg	1.75	--	5
Benzo(b)fluoranthene	8.87		mg/kg	1.75	--	5
Benzo(k)fluoranthene	7.56		mg/kg	1.75	--	5
Benzo(a)pyrene	9.54		mg/kg	1.75	--	5
Indeno(1,2,3-cd)Pyrene	7.12		mg/kg	1.75	--	5
Dibenzo(a,h)anthracene	1.88		mg/kg	1.75	--	5
Benzo(ghi)perylene	5.94		mg/kg	1.75	--	5

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-55 D

Date Collected: 09/04/19 13:24

Client ID: E-06 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	47		40-140
o-Terphenyl	111		40-140
2-Fluorobiphenyl	79		40-140
2-Bromonaphthalene	80		40-140

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56 D
 Client ID: E-06 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 09/17/19 02:14
 Analyst: MEO
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 09/12/19 22:36
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 09/13/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	161	--	20
C19-C36 Aliphatics	303		mg/kg	161	--	20
C11-C22 Aromatics	1500		mg/kg	161	--	20
C11-C22 Aromatics, Adjusted	853		mg/kg	161	--	20
Naphthalene	11.9		mg/kg	8.06	--	20
2-Methylnaphthalene	ND		mg/kg	8.06	--	20
Acenaphthylene	ND		mg/kg	8.06	--	20
Acenaphthene	13.7		mg/kg	8.06	--	20
Fluorene	24.1		mg/kg	8.06	--	20
Phenanthrene	145		mg/kg	8.06	--	20
Anthracene	40.6		mg/kg	8.06	--	20
Fluoranthene	125		mg/kg	8.06	--	20
Pyrene	94.0		mg/kg	8.06	--	20
Benzo(a)anthracene	46.4		mg/kg	8.06	--	20
Chrysene	42.9		mg/kg	8.06	--	20
Benzo(b)fluoranthene	25.0		mg/kg	8.06	--	20
Benzo(k)fluoranthene	28.2		mg/kg	8.06	--	20
Benzo(a)pyrene	28.4		mg/kg	8.06	--	20
Indeno(1,2,3-cd)Pyrene	13.8		mg/kg	8.06	--	20
Dibenzo(a,h)anthracene	ND		mg/kg	8.06	--	20
Benzo(ghi)perylene	10.2		mg/kg	8.06	--	20

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-56 D

Date Collected: 09/04/19 13:35

Client ID: E-06 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	73		40-140
2-Bromonaphthalene	74		40-140

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	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 11-12,15,17-18,21,23-24,27,44,101,105,113,115,138-140 Batch: WG1282535-1					
C9-C18 Aliphatics	ND		mg/kg	6.50	--
C19-C36 Aliphatics	ND		mg/kg	6.50	--
C11-C22 Aromatics	ND		mg/kg	6.50	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.50	--
Naphthalene	ND		mg/kg	0.325	--
2-Methylnaphthalene	ND		mg/kg	0.325	--
Acenaphthylene	ND		mg/kg	0.325	--
Acenaphthene	ND		mg/kg	0.325	--
Fluorene	ND		mg/kg	0.325	--
Phenanthrene	ND		mg/kg	0.325	--
Anthracene	ND		mg/kg	0.325	--
Fluoranthene	ND		mg/kg	0.325	--
Pyrene	ND		mg/kg	0.325	--
Benzo(a)anthracene	ND		mg/kg	0.325	--
Chrysene	ND		mg/kg	0.325	--
Benzo(b)fluoranthene	ND		mg/kg	0.325	--
Benzo(k)fluoranthene	ND		mg/kg	0.325	--
Benzo(a)pyrene	ND		mg/kg	0.325	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.325	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.325	--
Benzo(ghi)perylene	ND		mg/kg	0.325	--

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	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 11-12,15,17-18,21,23-24,27,44,101,105,113,115,138-140 Batch: WG1282535-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	69		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

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	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 45,50,55-56,143 Batch: WG1283558-1					
C9-C18 Aliphatics	ND		mg/kg	6.43	--
C19-C36 Aliphatics	ND		mg/kg	6.43	--
C11-C22 Aromatics	ND		mg/kg	6.43	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.43	--
Naphthalene	ND		mg/kg	0.322	--
2-Methylnaphthalene	ND		mg/kg	0.322	--
Acenaphthylene	ND		mg/kg	0.322	--
Acenaphthene	ND		mg/kg	0.322	--
Fluorene	ND		mg/kg	0.322	--
Phenanthrene	ND		mg/kg	0.322	--
Anthracene	ND		mg/kg	0.322	--
Fluoranthene	ND		mg/kg	0.322	--
Pyrene	ND		mg/kg	0.322	--
Benzo(a)anthracene	ND		mg/kg	0.322	--
Chrysene	ND		mg/kg	0.322	--
Benzo(b)fluoranthene	ND		mg/kg	0.322	--
Benzo(k)fluoranthene	ND		mg/kg	0.322	--
Benzo(a)pyrene	ND		mg/kg	0.322	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.322	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.322	--
Benzo(ghi)perylene	ND		mg/kg	0.322	--

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	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 45,50,55-56,143 Batch: WG1283558-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	79		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	83		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44,101,105,113,115,138-140 Batch: WG1282535-2 WG1282535-3								
C9-C18 Aliphatics	56		68		40-140	19		25
C19-C36 Aliphatics	64		79		40-140	21		25
C11-C22 Aromatics	54		58		40-140	7		25
Naphthalene	45		48		40-140	6		25
2-Methylnaphthalene	44		47		40-140	7		25
Acenaphthylene	47		51		40-140	8		25
Acenaphthene	51		56		40-140	9		25
Fluorene	49		55		40-140	12		25
Phenanthrene	54		60		40-140	11		25
Anthracene	54		59		40-140	9		25
Fluoranthene	54		58		40-140	7		25
Pyrene	56		60		40-140	7		25
Benzo(a)anthracene	54		58		40-140	7		25
Chrysene	55		58		40-140	5		25
Benzo(b)fluoranthene	53		57		40-140	7		25
Benzo(k)fluoranthene	53		56		40-140	6		25
Benzo(a)pyrene	52		55		40-140	6		25
Indeno(1,2,3-cd)Pyrene	50		52		40-140	4		25
Dibenzo(a,h)anthracene	51		52		40-140	2		25
Benzo(ghi)perylene	47		48		40-140	2		25
Nonane (C9)	44		54		30-140	20		25
Decane (C10)	49		59		40-140	19		25

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44,101,105,113,115,138-140 Batch: WG1282535-2 WG1282535-3								
Dodecane (C12)	50		60		40-140	18		25
Tetradecane (C14)	50		62		40-140	21		25
Hexadecane (C16)	53		68		40-140	25		25
Octadecane (C18)	57		71		40-140	22		25
Nonadecane (C19)	57		71		40-140	22		25
Eicosane (C20)	59		72		40-140	20		25
Docosane (C22)	60		73		40-140	20		25
Tetracosane (C24)	61		74		40-140	19		25
Hexacosane (C26)	62		77		40-140	22		25
Octacosane (C28)	64		78		40-140	20		25
Triacosane (C30)	65		80		40-140	21		25
Hexatriacontane (C36)	66		79		40-140	18		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	57		68		40-140
o-Terphenyl	52		57		40-140
2-Fluorobiphenyl	73		66		40-140
2-Bromonaphthalene	72		66		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		



Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 45,50,55-56,143 Batch: WG1283558-2 WG1283558-3								
C9-C18 Aliphatics	57		75		40-140	27	Q	25
C19-C36 Aliphatics	70		79		40-140	12		25
C11-C22 Aromatics	77		91		40-140	17		25
Naphthalene	54		72		40-140	29	Q	25
2-Methylnaphthalene	55		73		40-140	28	Q	25
Acenaphthylene	62		81		40-140	27	Q	25
Acenaphthene	63		83		40-140	27	Q	25
Fluorene	69		86		40-140	22		25
Phenanthrene	76		89		40-140	16		25
Anthracene	79		92		40-140	15		25
Fluoranthene	80		92		40-140	14		25
Pyrene	82		94		40-140	14		25
Benzo(a)anthracene	81		92		40-140	13		25
Chrysene	83		91		40-140	9		25
Benzo(b)fluoranthene	82		94		40-140	14		25
Benzo(k)fluoranthene	82		91		40-140	10		25
Benzo(a)pyrene	80		90		40-140	12		25
Indeno(1,2,3-cd)Pyrene	80		92		40-140	14		25
Dibenzo(a,h)anthracene	83		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 45,50,55-56,143 Batch: WG1283558-2 WG1283558-3								
Tetradecane (C14)	51		69		40-140	30	Q	25
Hexadecane (C16)	58		73		40-140	23		25
Octadecane (C18)	66		77		40-140	15		25
Nonadecane (C19)	65		75		40-140	14		25
Eicosane (C20)	67		77		40-140	14		25
Docosane (C22)	68		78		40-140	14		25
Tetracosane (C24)	67		77		40-140	14		25
Hexacosane (C26)	68		77		40-140	12		25
Octacosane (C28)	68		77		40-140	12		25
triacontane (C30)	69		77		40-140	11		25
Hexatriacontane (C36)	72		81		40-140	12		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Chloro-Octadecane	59		67		40-140
o-Terphenyl	72		83		40-140
2-Fluorobiphenyl	74		81		40-140
2-Bromonaphthalene	74		82		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		



PCBS

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-01
 Client ID: AS-5
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:05
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 15:20
 Analyst: AWS
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.8	--	1	A
Aroclor 1221	ND		ug/kg	54.8	--	1	A
Aroclor 1232	ND		ug/kg	54.8	--	1	A
Aroclor 1242	ND		ug/kg	54.8	--	1	A
Aroclor 1248	ND		ug/kg	36.6	--	1	A
Aroclor 1254	ND		ug/kg	54.8	--	1	A
Aroclor 1260	38.4		ug/kg	36.6	--	1	B
Aroclor 1262	ND		ug/kg	18.3	--	1	A
Aroclor 1268	ND		ug/kg	18.3	--	1	A
PCBs, Total	38.4		ug/kg	18.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	54		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-02 D
 Client ID: AS-6
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:15
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/14/19 00:29
 Analyst: AWS
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	590	--	10	A
Aroclor 1221	ND		ug/kg	590	--	10	A
Aroclor 1232	ND		ug/kg	590	--	10	A
Aroclor 1242	ND		ug/kg	590	--	10	A
Aroclor 1248	ND		ug/kg	394	--	10	A
Aroclor 1254	ND		ug/kg	590	--	10	A
Aroclor 1260	7100		ug/kg	394	--	10	B
Aroclor 1262	ND		ug/kg	197	--	10	A
Aroclor 1268	ND		ug/kg	197	--	10	A
PCBs, Total	7100		ug/kg	197	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-03
 Client ID: AS-7
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:20
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 15:32
 Analyst: AWS
 Percent Solids: 99%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.7	--	1	A
Aroclor 1221	ND		ug/kg	54.7	--	1	A
Aroclor 1232	ND		ug/kg	54.7	--	1	A
Aroclor 1242	ND		ug/kg	54.7	--	1	A
Aroclor 1248	ND		ug/kg	36.5	--	1	B
Aroclor 1254	ND		ug/kg	54.7	--	1	A
Aroclor 1260	ND		ug/kg	36.5	--	1	B
Aroclor 1262	ND		ug/kg	18.2	--	1	A
Aroclor 1268	ND		ug/kg	18.2	--	1	A
PCBs, Total	ND		ug/kg	18.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-04
 Client ID: AS-8
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:25
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 15:43
 Analyst: AWS
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.6	--	1	A
Aroclor 1221	ND		ug/kg	55.6	--	1	A
Aroclor 1232	ND		ug/kg	55.6	--	1	A
Aroclor 1242	ND		ug/kg	55.6	--	1	A
Aroclor 1248	ND		ug/kg	37.0	--	1	A
Aroclor 1254	ND		ug/kg	55.6	--	1	A
Aroclor 1260	ND		ug/kg	37.0	--	1	B
Aroclor 1262	ND		ug/kg	18.5	--	1	A
Aroclor 1268	ND		ug/kg	18.5	--	1	A
PCBs, Total	ND		ug/kg	18.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	51		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-05
 Client ID: AS-1
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:45
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 15:55
 Analyst: AWS
 Percent Solids: 99%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.0	--	1	A
Aroclor 1221	ND		ug/kg	56.0	--	1	A
Aroclor 1232	ND		ug/kg	56.0	--	1	A
Aroclor 1242	ND		ug/kg	56.0	--	1	A
Aroclor 1248	ND		ug/kg	37.3	--	1	A
Aroclor 1254	ND		ug/kg	56.0	--	1	A
Aroclor 1260	986		ug/kg	37.3	--	1	B
Aroclor 1262	ND		ug/kg	18.7	--	1	A
Aroclor 1268	ND		ug/kg	18.7	--	1	A
PCBs, Total	986		ug/kg	18.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	60		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-06
 Client ID: AS-2
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:07
 Analyst: AWS
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.5	--	1	A
Aroclor 1221	ND		ug/kg	51.5	--	1	A
Aroclor 1232	ND		ug/kg	51.5	--	1	A
Aroclor 1242	ND		ug/kg	51.5	--	1	A
Aroclor 1248	ND		ug/kg	34.3	--	1	A
Aroclor 1254	ND		ug/kg	51.5	--	1	A
Aroclor 1260	508		ug/kg	34.3	--	1	B
Aroclor 1262	ND		ug/kg	17.2	--	1	A
Aroclor 1268	ND		ug/kg	17.2	--	1	A
PCBs, Total	508		ug/kg	17.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	48		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-07
 Client ID: AS-3
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:55
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:19
 Analyst: AWS
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.2	--	1	A
Aroclor 1221	ND		ug/kg	57.2	--	1	A
Aroclor 1232	ND		ug/kg	57.2	--	1	A
Aroclor 1242	ND		ug/kg	57.2	--	1	A
Aroclor 1248	ND		ug/kg	38.1	--	1	A
Aroclor 1254	ND		ug/kg	57.2	--	1	A
Aroclor 1260	184		ug/kg	38.1	--	1	B
Aroclor 1262	ND		ug/kg	19.0	--	1	A
Aroclor 1268	ND		ug/kg	19.0	--	1	A
PCBs, Total	184		ug/kg	19.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	47		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	43		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-08
 Client ID: AS-4
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 12:05
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:31
 Analyst: AWS
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.4	--	1	A
Aroclor 1221	ND		ug/kg	51.4	--	1	A
Aroclor 1232	ND		ug/kg	51.4	--	1	A
Aroclor 1242	ND		ug/kg	51.4	--	1	A
Aroclor 1248	ND		ug/kg	34.3	--	1	A
Aroclor 1254	ND		ug/kg	51.4	--	1	A
Aroclor 1260	354		ug/kg	34.3	--	1	B
Aroclor 1262	ND		ug/kg	17.2	--	1	A
Aroclor 1268	ND		ug/kg	17.2	--	1	A
PCBs, Total	354		ug/kg	17.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	56		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-09
 Client ID: AS-DUP-1
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 02:38
 Analyst: WR
 Percent Solids: 100%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 10:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.0	--	1	A
Aroclor 1221	ND		ug/kg	57.0	--	1	A
Aroclor 1232	ND		ug/kg	57.0	--	1	A
Aroclor 1242	ND		ug/kg	57.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	57.0	--	1	A
Aroclor 1260	1610		ug/kg	38.0	--	1	B
Aroclor 1262	ND		ug/kg	19.0	--	1	A
Aroclor 1268	ND		ug/kg	19.0	--	1	A
PCBs, Total	1610		ug/kg	19.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-10
Client ID: SB-4 (0-0.5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 05:07
Analyst: KB
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	53.3		ug/kg	34.1	--	1	B
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	53.3		ug/kg	34.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	85		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
 Client ID: SB-4 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 05:18
 Analyst: KB
 Percent Solids: 95%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	--	1	A
Aroclor 1221	ND		ug/kg	33.8	--	1	A
Aroclor 1232	ND		ug/kg	33.8	--	1	A
Aroclor 1242	ND		ug/kg	33.8	--	1	A
Aroclor 1248	ND		ug/kg	33.8	--	1	A
Aroclor 1254	ND		ug/kg	33.8	--	1	A
Aroclor 1260	ND		ug/kg	33.8	--	1	B
Aroclor 1262	ND		ug/kg	33.8	--	1	A
Aroclor 1268	ND		ug/kg	33.8	--	1	A
PCBs, Total	ND		ug/kg	33.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
Client ID: SB-4 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 05:30
Analyst: KB
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	ND		ug/kg	34.1	--	1	A
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	ND		ug/kg	34.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-13
 Client ID: SB-4 (3-5)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 05:42
 Analyst: KB
 Percent Solids: 87%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	--	1	A
Aroclor 1221	ND		ug/kg	37.5	--	1	A
Aroclor 1232	ND		ug/kg	37.5	--	1	A
Aroclor 1242	ND		ug/kg	37.5	--	1	A
Aroclor 1248	ND		ug/kg	37.5	--	1	A
Aroclor 1254	ND		ug/kg	37.5	--	1	A
Aroclor 1260	ND		ug/kg	37.5	--	1	A
Aroclor 1262	ND		ug/kg	37.5	--	1	A
Aroclor 1268	ND		ug/kg	37.5	--	1	A
PCBs, Total	ND		ug/kg	37.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
 Client ID: SB-4 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 00:58
 Analyst: AWS
 Percent Solids: 75%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	104	--	1	A
Aroclor 1221	ND		ug/kg	104	--	1	A
Aroclor 1232	ND		ug/kg	104	--	1	A
Aroclor 1242	ND		ug/kg	104	--	1	A
Aroclor 1248	ND		ug/kg	104	--	1	A
Aroclor 1254	ND		ug/kg	104	--	1	A
Aroclor 1260	ND		ug/kg	104	--	1	A
Aroclor 1262	ND		ug/kg	104	--	1	A
Aroclor 1268	ND		ug/kg	104	--	1	A
PCBs, Total	ND		ug/kg	104	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	50		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	27	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-16 D
 Client ID: SB-3 (0-0.5)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/15/19 15:13
 Analyst: AWS
 Percent Solids: 95%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	170	--	5	A
Aroclor 1221	ND		ug/kg	170	--	5	A
Aroclor 1232	ND		ug/kg	170	--	5	A
Aroclor 1242	ND		ug/kg	170	--	5	A
Aroclor 1248	ND		ug/kg	170	--	5	A
Aroclor 1254	444		ug/kg	170	--	5	A
Aroclor 1260	ND		ug/kg	170	--	5	A
Aroclor 1262	ND		ug/kg	170	--	5	A
Aroclor 1268	ND		ug/kg	170	--	5	A
PCBs, Total	444		ug/kg	170	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	55		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
 Client ID: SB-3 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 23:31
 Analyst: AWS
 Percent Solids: 94%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.0	--	1	A
Aroclor 1221	ND		ug/kg	35.0	--	1	A
Aroclor 1232	ND		ug/kg	35.0	--	1	A
Aroclor 1242	ND		ug/kg	35.0	--	1	A
Aroclor 1248	ND		ug/kg	35.0	--	1	A
Aroclor 1254	72.0		ug/kg	35.0	--	1	B
Aroclor 1260	38.3	IP	ug/kg	35.0	--	1	B
Aroclor 1262	ND		ug/kg	35.0	--	1	A
Aroclor 1268	ND		ug/kg	35.0	--	1	A
PCBs, Total	110		ug/kg	35.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	41		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 23:44
 Analyst: AWS
 Percent Solids: 95%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	--	1	A
Aroclor 1221	ND		ug/kg	34.4	--	1	A
Aroclor 1232	ND		ug/kg	34.4	--	1	A
Aroclor 1242	ND		ug/kg	34.4	--	1	A
Aroclor 1248	ND		ug/kg	34.4	--	1	A
Aroclor 1254	ND		ug/kg	34.4	--	1	A
Aroclor 1260	ND		ug/kg	34.4	--	1	B
Aroclor 1262	ND		ug/kg	34.4	--	1	A
Aroclor 1268	ND		ug/kg	34.4	--	1	A
PCBs, Total	ND		ug/kg	34.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	39		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-19
 Client ID: SB-3 (3-5)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 05:54
 Analyst: KB
 Percent Solids: 85%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.6	--	1	A
Aroclor 1221	ND		ug/kg	38.6	--	1	A
Aroclor 1232	ND		ug/kg	38.6	--	1	A
Aroclor 1242	ND		ug/kg	38.6	--	1	A
Aroclor 1248	ND		ug/kg	38.6	--	1	A
Aroclor 1254	ND		ug/kg	38.6	--	1	A
Aroclor 1260	89.6		ug/kg	38.6	--	1	B
Aroclor 1262	ND		ug/kg	38.6	--	1	A
Aroclor 1268	ND		ug/kg	38.6	--	1	A
PCBs, Total	89.6		ug/kg	38.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	90		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-22
 Client ID: SB-2 (0-0.5)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 23:56
 Analyst: AWS
 Percent Solids: 97%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	--	1	A
Aroclor 1221	ND		ug/kg	33.9	--	1	A
Aroclor 1232	ND		ug/kg	33.9	--	1	A
Aroclor 1242	ND		ug/kg	33.9	--	1	A
Aroclor 1248	ND		ug/kg	33.9	--	1	A
Aroclor 1254	40.3		ug/kg	33.9	--	1	A
Aroclor 1260	ND		ug/kg	33.9	--	1	B
Aroclor 1262	ND		ug/kg	33.9	--	1	A
Aroclor 1268	ND		ug/kg	33.9	--	1	A
PCBs, Total	40.3		ug/kg	33.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	56		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	35		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
 Client ID: SB-2 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 00:09
 Analyst: AWS
 Percent Solids: 90%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.0	--	1	A
Aroclor 1221	ND		ug/kg	35.0	--	1	A
Aroclor 1232	ND		ug/kg	35.0	--	1	A
Aroclor 1242	ND		ug/kg	35.0	--	1	A
Aroclor 1248	ND		ug/kg	35.0	--	1	A
Aroclor 1254	ND		ug/kg	35.0	--	1	A
Aroclor 1260	83.0		ug/kg	35.0	--	1	B
Aroclor 1262	ND		ug/kg	35.0	--	1	A
Aroclor 1268	ND		ug/kg	35.0	--	1	A
PCBs, Total	83.0		ug/kg	35.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	54		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	36		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
 Client ID: SB-2 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 00:21
 Analyst: AWS
 Percent Solids: 89%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	--	1	A
Aroclor 1221	ND		ug/kg	36.3	--	1	A
Aroclor 1232	ND		ug/kg	36.3	--	1	A
Aroclor 1242	ND		ug/kg	36.3	--	1	A
Aroclor 1248	ND		ug/kg	36.3	--	1	A
Aroclor 1254	ND		ug/kg	36.3	--	1	A
Aroclor 1260	ND		ug/kg	36.3	--	1	B
Aroclor 1262	ND		ug/kg	36.3	--	1	A
Aroclor 1268	ND		ug/kg	36.3	--	1	A
PCBs, Total	ND		ug/kg	36.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	31		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-25
 Client ID: SB-2 (3-5)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:15
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 00:46
 Analyst: AWS
 Percent Solids: 86%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	--	1	A
Aroclor 1221	ND		ug/kg	38.0	--	1	A
Aroclor 1232	ND		ug/kg	38.0	--	1	A
Aroclor 1242	ND		ug/kg	38.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	38.0	--	1	A
Aroclor 1260	ND		ug/kg	38.0	--	1	A
Aroclor 1262	ND		ug/kg	38.0	--	1	A
Aroclor 1268	ND		ug/kg	38.0	--	1	A
PCBs, Total	ND		ug/kg	38.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	33		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-32 D
 Client ID: E-08 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 11:25
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/15/19 15:01
 Analyst: AWS
 Percent Solids: 87%

Extraction Method: EPA 3540C
 Extraction Date: 09/08/19 17:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	748	--	20	A
Aroclor 1221	ND		ug/kg	748	--	20	A
Aroclor 1232	ND		ug/kg	748	--	20	A
Aroclor 1242	ND		ug/kg	748	--	20	A
Aroclor 1248	782		ug/kg	748	--	20	B
Aroclor 1254	ND		ug/kg	748	--	20	A
Aroclor 1260	6920		ug/kg	748	--	20	B
Aroclor 1262	ND		ug/kg	748	--	20	A
Aroclor 1268	ND		ug/kg	748	--	20	A
PCBs, Total	7700		ug/kg	748	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-33
 Client ID: E-08 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 11:30
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 06:06
 Analyst: KB
 Percent Solids: 93%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	--	1	A
Aroclor 1221	ND		ug/kg	35.6	--	1	A
Aroclor 1232	ND		ug/kg	35.6	--	1	A
Aroclor 1242	ND		ug/kg	35.6	--	1	A
Aroclor 1248	ND		ug/kg	35.6	--	1	A
Aroclor 1254	ND		ug/kg	35.6	--	1	A
Aroclor 1260	ND		ug/kg	35.6	--	1	A
Aroclor 1262	ND		ug/kg	35.6	--	1	A
Aroclor 1268	ND		ug/kg	35.6	--	1	A
PCBs, Total	ND		ug/kg	35.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	113		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-40 D
 Client ID: D-07 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:12
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 16:50
 Analyst: WR
 Percent Solids: 93%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	3460	--	100	A
Aroclor 1221	ND		ug/kg	3460	--	100	A
Aroclor 1232	ND		ug/kg	3460	--	100	A
Aroclor 1242	ND		ug/kg	3460	--	100	A
Aroclor 1248	11100		ug/kg	3460	--	100	B
Aroclor 1254	6220		ug/kg	3460	--	100	A
Aroclor 1260	ND		ug/kg	3460	--	100	B
Aroclor 1262	ND		ug/kg	3460	--	100	A
Aroclor 1268	ND		ug/kg	3460	--	100	A
PCBs, Total	17300		ug/kg	3460	--	100	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-41
 Client ID: D-07 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:14
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 06:29
 Analyst: KB
 Percent Solids: 92%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	--	1	A
Aroclor 1221	ND		ug/kg	35.7	--	1	A
Aroclor 1232	ND		ug/kg	35.7	--	1	A
Aroclor 1242	ND		ug/kg	35.7	--	1	A
Aroclor 1248	ND		ug/kg	35.7	--	1	A
Aroclor 1254	102		ug/kg	35.7	--	1	B
Aroclor 1260	57.7		ug/kg	35.7	--	1	B
Aroclor 1262	ND		ug/kg	35.7	--	1	A
Aroclor 1268	ND		ug/kg	35.7	--	1	A
PCBs, Total	160		ug/kg	35.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	120		30-150	B
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
Client ID: D-07 (7-9)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/11/19 06:41
Analyst: KB
Percent Solids: 78%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.4	--	1	A
Aroclor 1221	ND		ug/kg	42.4	--	1	A
Aroclor 1232	ND		ug/kg	42.4	--	1	A
Aroclor 1242	ND		ug/kg	42.4	--	1	A
Aroclor 1248	ND		ug/kg	42.4	--	1	A
Aroclor 1254	ND		ug/kg	42.4	--	1	A
Aroclor 1260	ND		ug/kg	42.4	--	1	A
Aroclor 1262	ND		ug/kg	42.4	--	1	A
Aroclor 1268	ND		ug/kg	42.4	--	1	A
PCBs, Total	ND		ug/kg	42.4	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-51 D
 Client ID: E-06 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:22
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 16:38
 Analyst: WR
 Percent Solids: 96%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	337	--	10	A
Aroclor 1221	ND		ug/kg	337	--	10	A
Aroclor 1232	ND		ug/kg	337	--	10	A
Aroclor 1242	ND		ug/kg	337	--	10	A
Aroclor 1248	2950		ug/kg	337	--	10	B
Aroclor 1254	1160		ug/kg	337	--	10	B
Aroclor 1260	475		ug/kg	337	--	10	B
Aroclor 1262	ND		ug/kg	337	--	10	A
Aroclor 1268	ND		ug/kg	337	--	10	A
PCBs, Total	4590		ug/kg	337	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-52
 Client ID: E-06 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:26
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/11/19 07:05
 Analyst: KB
 Percent Solids: 90%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	--	1	A
Aroclor 1221	ND		ug/kg	36.2	--	1	A
Aroclor 1232	ND		ug/kg	36.2	--	1	A
Aroclor 1242	ND		ug/kg	36.2	--	1	A
Aroclor 1248	192		ug/kg	36.2	--	1	B
Aroclor 1254	ND		ug/kg	36.2	--	1	A
Aroclor 1260	54.4		ug/kg	36.2	--	1	B
Aroclor 1262	ND		ug/kg	36.2	--	1	A
Aroclor 1268	ND		ug/kg	36.2	--	1	A
PCBs, Total	246		ug/kg	36.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	163	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	118		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
 Client ID: E-06 (5-7)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 02:50
 Analyst: WR
 Percent Solids: 79%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.1	--	1	A
Aroclor 1221	ND		ug/kg	41.1	--	1	A
Aroclor 1232	ND		ug/kg	41.1	--	1	A
Aroclor 1242	ND		ug/kg	41.1	--	1	A
Aroclor 1248	ND		ug/kg	41.1	--	1	B
Aroclor 1254	ND		ug/kg	41.1	--	1	A
Aroclor 1260	ND		ug/kg	41.1	--	1	A
Aroclor 1262	ND		ug/kg	41.1	--	1	A
Aroclor 1268	ND		ug/kg	41.1	--	1	A
PCBs, Total	ND		ug/kg	41.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	103		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-57 D
 Client ID: E-05 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:10
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 21:52
 Analyst: AWS
 Percent Solids: 91%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	712	--	20	A
Aroclor 1221	ND		ug/kg	712	--	20	A
Aroclor 1232	ND		ug/kg	712	--	20	A
Aroclor 1242	ND		ug/kg	712	--	20	A
Aroclor 1248	7870		ug/kg	712	--	20	A
Aroclor 1254	ND		ug/kg	712	--	20	A
Aroclor 1260	1400		ug/kg	712	--	20	B
Aroclor 1262	ND		ug/kg	712	--	20	A
Aroclor 1268	ND		ug/kg	712	--	20	A
PCBs, Total	9270		ug/kg	712	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-58
Client ID: E-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:12
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 03:15
Analyst: WR
Percent Solids: 87%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.7	--	1	A
Aroclor 1221	ND		ug/kg	37.7	--	1	A
Aroclor 1232	ND		ug/kg	37.7	--	1	A
Aroclor 1242	ND		ug/kg	37.7	--	1	A
Aroclor 1248	ND		ug/kg	37.7	--	1	B
Aroclor 1254	ND		ug/kg	37.7	--	1	A
Aroclor 1260	ND		ug/kg	37.7	--	1	A
Aroclor 1262	ND		ug/kg	37.7	--	1	A
Aroclor 1268	ND		ug/kg	37.7	--	1	A
PCBs, Total	ND		ug/kg	37.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-61 D
 Client ID: SB-DUP-6
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 22:04
 Analyst: AWS
 Percent Solids: 91%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	702	--	20	A
Aroclor 1221	ND		ug/kg	702	--	20	A
Aroclor 1232	ND		ug/kg	702	--	20	A
Aroclor 1242	ND		ug/kg	702	--	20	A
Aroclor 1248	4930		ug/kg	702	--	20	B
Aroclor 1254	ND		ug/kg	702	--	20	A
Aroclor 1260	1070		ug/kg	702	--	20	B
Aroclor 1262	ND		ug/kg	702	--	20	A
Aroclor 1268	ND		ug/kg	702	--	20	A
PCBs, Total	6000		ug/kg	702	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-66 D
 Client ID: D-09 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:50
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 22:16
 Analyst: AWS
 Percent Solids: 88%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	745	--	20	A
Aroclor 1221	ND		ug/kg	745	--	20	A
Aroclor 1232	ND		ug/kg	745	--	20	A
Aroclor 1242	ND		ug/kg	745	--	20	A
Aroclor 1248	ND		ug/kg	745	--	20	A
Aroclor 1254	ND		ug/kg	745	--	20	A
Aroclor 1260	5650		ug/kg	745	--	20	B
Aroclor 1262	ND		ug/kg	745	--	20	A
Aroclor 1268	ND		ug/kg	745	--	20	A
PCBs, Total	5650		ug/kg	745	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-67 D
 Client ID: D-09 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:53
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/17/19 16:22
 Analyst: AWS
 Percent Solids: 75%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	441	--	10	A
Aroclor 1221	ND		ug/kg	441	--	10	A
Aroclor 1232	ND		ug/kg	441	--	10	A
Aroclor 1242	ND		ug/kg	441	--	10	A
Aroclor 1248	ND		ug/kg	441	--	10	A
Aroclor 1254	ND		ug/kg	441	--	10	A
Aroclor 1260	ND		ug/kg	441	--	10	A
Aroclor 1262	ND		ug/kg	441	--	10	A
Aroclor 1268	1850		ug/kg	441	--	10	B
PCBs, Total	1850		ug/kg	441	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-74
Client ID: B-07 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 15:27
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/12/19 04:04
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	--	1	A
Aroclor 1221	ND		ug/kg	36.0	--	1	A
Aroclor 1232	ND		ug/kg	36.0	--	1	A
Aroclor 1242	ND		ug/kg	36.0	--	1	A
Aroclor 1248	45.5		ug/kg	36.0	--	1	B
Aroclor 1254	208		ug/kg	36.0	--	1	B
Aroclor 1260	128		ug/kg	36.0	--	1	B
Aroclor 1262	ND		ug/kg	36.0	--	1	A
Aroclor 1268	ND		ug/kg	36.0	--	1	A
PCBs, Total	382		ug/kg	36.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	81		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-75
 Client ID: B-07 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 15:29
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 04:16
 Analyst: WR
 Percent Solids: 83%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.2	--	1	A
Aroclor 1221	ND		ug/kg	38.2	--	1	A
Aroclor 1232	ND		ug/kg	38.2	--	1	A
Aroclor 1242	ND		ug/kg	38.2	--	1	A
Aroclor 1248	ND		ug/kg	38.2	--	1	A
Aroclor 1254	ND		ug/kg	38.2	--	1	A
Aroclor 1260	ND		ug/kg	38.2	--	1	A
Aroclor 1262	ND		ug/kg	38.2	--	1	A
Aroclor 1268	ND		ug/kg	38.2	--	1	B
PCBs, Total	ND		ug/kg	38.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	104		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-86 D
 Client ID: C-08 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:08
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 22:40
 Analyst: AWS
 Percent Solids: 87%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	368	--	10	A
Aroclor 1221	ND		ug/kg	368	--	10	A
Aroclor 1232	ND		ug/kg	368	--	10	A
Aroclor 1242	ND		ug/kg	368	--	10	A
Aroclor 1248	ND		ug/kg	368	--	10	A
Aroclor 1254	ND		ug/kg	368	--	10	A
Aroclor 1260	3500		ug/kg	368	--	10	B
Aroclor 1262	ND		ug/kg	368	--	10	A
Aroclor 1268	ND		ug/kg	368	--	10	A
PCBs, Total	3500		ug/kg	368	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-87
 Client ID: C-08 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:11
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 04:53
 Analyst: WR
 Percent Solids: 78%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.6	--	1	A
Aroclor 1221	ND		ug/kg	42.6	--	1	A
Aroclor 1232	ND		ug/kg	42.6	--	1	A
Aroclor 1242	ND		ug/kg	42.6	--	1	A
Aroclor 1248	ND		ug/kg	42.6	--	1	A
Aroclor 1254	ND		ug/kg	42.6	--	1	A
Aroclor 1260	55.7		ug/kg	42.6	--	1	B
Aroclor 1262	ND		ug/kg	42.6	--	1	A
Aroclor 1268	57.0		ug/kg	42.6	--	1	B
PCBs, Total	113		ug/kg	42.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	153	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	138		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-90
 Client ID: SB-DUP-4
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/12/19 05:06
 Analyst: WR
 Percent Solids: 77%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.7	--	1	A
Aroclor 1221	ND		ug/kg	41.7	--	1	A
Aroclor 1232	ND		ug/kg	41.7	--	1	A
Aroclor 1242	ND		ug/kg	41.7	--	1	A
Aroclor 1248	ND		ug/kg	41.7	--	1	A
Aroclor 1254	ND		ug/kg	41.7	--	1	A
Aroclor 1260	47.3		ug/kg	41.7	--	1	B
Aroclor 1262	ND		ug/kg	41.7	--	1	A
Aroclor 1268	53.7		ug/kg	41.7	--	1	B
PCBs, Total	101		ug/kg	41.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	158	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	142		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-99 D
 Client ID: B-09 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:53
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/17/19 15:27
 Analyst: AWS
 Percent Solids: 96%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	335	--	10	A
Aroclor 1221	ND		ug/kg	335	--	10	A
Aroclor 1232	ND		ug/kg	335	--	10	A
Aroclor 1242	ND		ug/kg	335	--	10	A
Aroclor 1248	2790		ug/kg	335	--	10	B
Aroclor 1254	4040		ug/kg	335	--	10	B
Aroclor 1260	3360		ug/kg	335	--	10	B
Aroclor 1262	ND		ug/kg	335	--	10	A
Aroclor 1268	ND		ug/kg	335	--	10	A
PCBs, Total	10200		ug/kg	335	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-100 D
 Client ID: SB-DUP-3
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 22:52
 Analyst: AWS
 Percent Solids: 96%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	345	--	10	A
Aroclor 1221	ND		ug/kg	345	--	10	A
Aroclor 1232	ND		ug/kg	345	--	10	A
Aroclor 1242	ND		ug/kg	345	--	10	A
Aroclor 1248	2920		ug/kg	345	--	10	A
Aroclor 1254	4310		ug/kg	345	--	10	A
Aroclor 1260	3090		ug/kg	345	--	10	B
Aroclor 1262	ND		ug/kg	345	--	10	A
Aroclor 1268	ND		ug/kg	345	--	10	A
PCBs, Total	10300		ug/kg	345	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-102 D
 Client ID: B-09 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:55
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 23:04
 Analyst: AWS
 Percent Solids: 91%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	180	--	5	A
Aroclor 1221	ND		ug/kg	180	--	5	A
Aroclor 1232	ND		ug/kg	180	--	5	A
Aroclor 1242	ND		ug/kg	180	--	5	A
Aroclor 1248	640		ug/kg	180	--	5	A
Aroclor 1254	841		ug/kg	180	--	5	A
Aroclor 1260	1190		ug/kg	180	--	5	B
Aroclor 1262	ND		ug/kg	180	--	5	A
Aroclor 1268	ND		ug/kg	180	--	5	A
PCBs, Total	2670		ug/kg	180	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	181	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	115		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 23:16
 Analyst: AWS
 Percent Solids: 92%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	173	--	5	A
Aroclor 1221	ND		ug/kg	173	--	5	A
Aroclor 1232	ND		ug/kg	173	--	5	A
Aroclor 1242	ND		ug/kg	173	--	5	A
Aroclor 1248	930		ug/kg	173	--	5	A
Aroclor 1254	1880		ug/kg	173	--	5	A
Aroclor 1260	1610		ug/kg	173	--	5	B
Aroclor 1262	ND		ug/kg	173	--	5	A
Aroclor 1268	ND		ug/kg	173	--	5	A
PCBs, Total	4420		ug/kg	173	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	167	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	109		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-106
 Client ID: A-06 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:33
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 23:41
 Analyst: AWS
 Percent Solids: 97%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	ND		ug/kg	34.1	--	1	A
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	ND		ug/kg	34.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-107
 Client ID: A-06 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:36
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 23:29
 Analyst: AWS
 Percent Solids: 97%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	--	1	A
Aroclor 1221	ND		ug/kg	33.8	--	1	A
Aroclor 1232	ND		ug/kg	33.8	--	1	A
Aroclor 1242	ND		ug/kg	33.8	--	1	A
Aroclor 1248	ND		ug/kg	33.8	--	1	A
Aroclor 1254	ND		ug/kg	33.8	--	1	A
Aroclor 1260	ND		ug/kg	33.8	--	1	A
Aroclor 1262	ND		ug/kg	33.8	--	1	A
Aroclor 1268	ND		ug/kg	33.8	--	1	B
PCBs, Total	ND		ug/kg	33.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	68		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-110
 Client ID: SB-DUP-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/13/19 23:53
 Analyst: AWS
 Percent Solids: 97%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.3	--	1	A
Aroclor 1221	ND		ug/kg	32.3	--	1	A
Aroclor 1232	ND		ug/kg	32.3	--	1	A
Aroclor 1242	ND		ug/kg	32.3	--	1	A
Aroclor 1248	ND		ug/kg	32.3	--	1	A
Aroclor 1254	ND		ug/kg	32.3	--	1	A
Aroclor 1260	ND		ug/kg	32.3	--	1	A
Aroclor 1262	ND		ug/kg	32.3	--	1	A
Aroclor 1268	ND		ug/kg	32.3	--	1	A
PCBs, Total	ND		ug/kg	32.3	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-111 D
 Client ID: B-05 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:48
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/14/19 00:05
 Analyst: AWS
 Percent Solids: 92%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	172	--	5	A
Aroclor 1221	ND		ug/kg	172	--	5	A
Aroclor 1232	ND		ug/kg	172	--	5	A
Aroclor 1242	ND		ug/kg	172	--	5	A
Aroclor 1248	1450		ug/kg	172	--	5	A
Aroclor 1254	2160		ug/kg	172	--	5	A
Aroclor 1260	570		ug/kg	172	--	5	B
Aroclor 1262	ND		ug/kg	172	--	5	A
Aroclor 1268	ND		ug/kg	172	--	5	A
PCBs, Total	4180		ug/kg	172	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-112
 Client ID: B-05 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:51
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/14/19 00:17
 Analyst: AWS
 Percent Solids: 86%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.9	--	1	A
Aroclor 1221	ND		ug/kg	37.9	--	1	A
Aroclor 1232	ND		ug/kg	37.9	--	1	A
Aroclor 1242	ND		ug/kg	37.9	--	1	A
Aroclor 1248	ND		ug/kg	37.9	--	1	A
Aroclor 1254	ND		ug/kg	37.9	--	1	B
Aroclor 1260	ND		ug/kg	37.9	--	1	B
Aroclor 1262	ND		ug/kg	37.9	--	1	A
Aroclor 1268	ND		ug/kg	37.9	--	1	A
PCBs, Total	ND		ug/kg	37.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
 Client ID: B-05 (3-5)-2
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 14:58
 Analyst: WR
 Percent Solids: 69%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	47.1	--	1	A
Aroclor 1221	ND		ug/kg	47.1	--	1	A
Aroclor 1232	ND		ug/kg	47.1	--	1	A
Aroclor 1242	ND		ug/kg	47.1	--	1	A
Aroclor 1248	ND		ug/kg	47.1	--	1	A
Aroclor 1254	ND		ug/kg	47.1	--	1	A
Aroclor 1260	ND		ug/kg	47.1	--	1	A
Aroclor 1262	ND		ug/kg	47.1	--	1	A
Aroclor 1268	ND		ug/kg	47.1	--	1	A
PCBs, Total	ND		ug/kg	47.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	81		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-117 D
 Client ID: C-05 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:12
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/17/19 15:15
 Analyst: AWS
 Percent Solids: 87%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	186	--	5	A
Aroclor 1221	ND		ug/kg	186	--	5	A
Aroclor 1232	ND		ug/kg	186	--	5	A
Aroclor 1242	ND		ug/kg	186	--	5	A
Aroclor 1248	ND		ug/kg	186	--	5	A
Aroclor 1254	ND		ug/kg	186	--	5	A
Aroclor 1260	2560		ug/kg	186	--	5	B
Aroclor 1262	ND		ug/kg	186	--	5	A
Aroclor 1268	ND		ug/kg	186	--	5	A
PCBs, Total	2560		ug/kg	186	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	145		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	120		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-118
 Client ID: C-05 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:15
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 15:23
 Analyst: WR
 Percent Solids: 86%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	--	1	A
Aroclor 1221	ND		ug/kg	38.0	--	1	A
Aroclor 1232	ND		ug/kg	38.0	--	1	A
Aroclor 1242	ND		ug/kg	38.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	38.0	--	1	A
Aroclor 1260	57.6		ug/kg	38.0	--	1	B
Aroclor 1262	ND		ug/kg	38.0	--	1	A
Aroclor 1268	ND		ug/kg	38.0	--	1	A
PCBs, Total	57.6		ug/kg	38.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-121
 Client ID: C-06 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:32
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 15:35
 Analyst: WR
 Percent Solids: 95%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	ND		ug/kg	34.1	--	1	B
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	ND		ug/kg	34.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	118		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-122
 Client ID: C-06 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:34
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 15:48
 Analyst: WR
 Percent Solids: 91%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	--	1	A
Aroclor 1221	ND		ug/kg	34.7	--	1	A
Aroclor 1232	ND		ug/kg	34.7	--	1	A
Aroclor 1242	ND		ug/kg	34.7	--	1	A
Aroclor 1248	ND		ug/kg	34.7	--	1	A
Aroclor 1254	ND		ug/kg	34.7	--	1	A
Aroclor 1260	ND		ug/kg	34.7	--	1	A
Aroclor 1262	ND		ug/kg	34.7	--	1	A
Aroclor 1268	ND		ug/kg	34.7	--	1	A
PCBs, Total	ND		ug/kg	34.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-125
 Client ID: A-05 (1-2)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 12:12
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:00
 Analyst: WR
 Percent Solids: 93%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	--	1	A
Aroclor 1221	ND		ug/kg	35.2	--	1	A
Aroclor 1232	ND		ug/kg	35.2	--	1	A
Aroclor 1242	ND		ug/kg	35.2	--	1	A
Aroclor 1248	ND		ug/kg	35.2	--	1	A
Aroclor 1254	ND		ug/kg	35.2	--	1	A
Aroclor 1260	ND		ug/kg	35.2	--	1	A
Aroclor 1262	ND		ug/kg	35.2	--	1	A
Aroclor 1268	ND		ug/kg	35.2	--	1	A
PCBs, Total	ND		ug/kg	35.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	104		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-126
 Client ID: A-05 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 12:14
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:12
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	--	1	A
Aroclor 1221	ND		ug/kg	33.9	--	1	A
Aroclor 1232	ND		ug/kg	33.9	--	1	A
Aroclor 1242	ND		ug/kg	33.9	--	1	A
Aroclor 1248	ND		ug/kg	33.9	--	1	A
Aroclor 1254	ND		ug/kg	33.9	--	1	A
Aroclor 1260	ND		ug/kg	33.9	--	1	A
Aroclor 1262	ND		ug/kg	33.9	--	1	A
Aroclor 1268	ND		ug/kg	33.9	--	1	A
PCBs, Total	ND		ug/kg	33.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	158	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	137		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-129
 Client ID: E-02 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:24
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	--	1	A
Aroclor 1221	ND		ug/kg	33.8	--	1	A
Aroclor 1232	ND		ug/kg	33.8	--	1	A
Aroclor 1242	ND		ug/kg	33.8	--	1	A
Aroclor 1248	ND		ug/kg	33.8	--	1	A
Aroclor 1254	ND		ug/kg	33.8	--	1	A
Aroclor 1260	127		ug/kg	33.8	--	1	B
Aroclor 1262	ND		ug/kg	33.8	--	1	A
Aroclor 1268	ND		ug/kg	33.8	--	1	A
PCBs, Total	127		ug/kg	33.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	80		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-130
 Client ID: E-02 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:08
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 16:37
 Analyst: WR
 Percent Solids: 95%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.6	--	1	A
Aroclor 1221	ND		ug/kg	33.6	--	1	A
Aroclor 1232	ND		ug/kg	33.6	--	1	A
Aroclor 1242	ND		ug/kg	33.6	--	1	A
Aroclor 1248	ND		ug/kg	33.6	--	1	A
Aroclor 1254	ND		ug/kg	33.6	--	1	A
Aroclor 1260	ND		ug/kg	33.6	--	1	A
Aroclor 1262	ND		ug/kg	33.6	--	1	A
Aroclor 1268	ND		ug/kg	33.6	--	1	A
PCBs, Total	ND		ug/kg	33.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-137
Client ID: SB-1 (0-0.5)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:33
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/16/19 16:49
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	--	1	A
Aroclor 1221	ND		ug/kg	34.2	--	1	A
Aroclor 1232	ND		ug/kg	34.2	--	1	A
Aroclor 1242	ND		ug/kg	34.2	--	1	A
Aroclor 1248	ND		ug/kg	34.2	--	1	A
Aroclor 1254	ND		ug/kg	34.2	--	1	A
Aroclor 1260	ND		ug/kg	34.2	--	1	B
Aroclor 1262	ND		ug/kg	34.2	--	1	A
Aroclor 1268	ND		ug/kg	34.2	--	1	A
PCBs, Total	ND		ug/kg	34.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
 Client ID: SB-1 (1-2)
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 18:09
 Analyst: WR
 Percent Solids: 92%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	--	1	A
Aroclor 1221	ND		ug/kg	36.2	--	1	A
Aroclor 1232	ND		ug/kg	36.2	--	1	A
Aroclor 1242	ND		ug/kg	36.2	--	1	A
Aroclor 1248	ND		ug/kg	36.2	--	1	A
Aroclor 1254	ND		ug/kg	36.2	--	1	A
Aroclor 1260	83.8		ug/kg	36.2	--	1	B
Aroclor 1262	ND		ug/kg	36.2	--	1	A
Aroclor 1268	ND		ug/kg	36.2	--	1	A
PCBs, Total	83.8		ug/kg	36.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
 Client ID: SB-1 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 18:21
 Analyst: WR
 Percent Solids: 90%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	--	1	A
Aroclor 1221	ND		ug/kg	36.8	--	1	A
Aroclor 1232	ND		ug/kg	36.8	--	1	A
Aroclor 1242	ND		ug/kg	36.8	--	1	A
Aroclor 1248	ND		ug/kg	36.8	--	1	A
Aroclor 1254	ND		ug/kg	36.8	--	1	A
Aroclor 1260	51.4		ug/kg	36.8	--	1	B
Aroclor 1262	ND		ug/kg	36.8	--	1	A
Aroclor 1268	ND		ug/kg	36.8	--	1	A
PCBs, Total	51.4		ug/kg	36.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	99		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
 Client ID: SB-DUP-1
 Sample Location: LAWRENCE, MA

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

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 18:33
 Analyst: WR
 Percent Solids: 95%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.1	--	1	A
Aroclor 1221	ND		ug/kg	33.1	--	1	A
Aroclor 1232	ND		ug/kg	33.1	--	1	A
Aroclor 1242	ND		ug/kg	33.1	--	1	A
Aroclor 1248	ND		ug/kg	33.1	--	1	A
Aroclor 1254	ND		ug/kg	33.1	--	1	A
Aroclor 1260	88.0		ug/kg	33.1	--	1	B
Aroclor 1262	ND		ug/kg	33.1	--	1	A
Aroclor 1268	ND		ug/kg	33.1	--	1	A
PCBs, Total	88.0		ug/kg	33.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	108		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-141
 Client ID: SB-1 (3-5)
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:42
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 09/16/19 18:53
 Analyst: WR
 Percent Solids: 78%

Extraction Method: EPA 3540C
 Extraction Date: 09/07/19 14:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	--	1	A
Aroclor 1221	ND		ug/kg	41.0	--	1	A
Aroclor 1232	ND		ug/kg	41.0	--	1	A
Aroclor 1242	ND		ug/kg	41.0	--	1	A
Aroclor 1248	ND		ug/kg	41.0	--	1	A
Aroclor 1254	ND		ug/kg	41.0	--	1	A
Aroclor 1260	ND		ug/kg	41.0	--	1	A
Aroclor 1262	ND		ug/kg	41.0	--	1	A
Aroclor 1268	ND		ug/kg	41.0	--	1	A
PCBs, Total	ND		ug/kg	41.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	74		30-150	A

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	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-09 Batch: WG1281465-1						
Aroclor 1016	ND		ug/kg	56.3	--	B
Aroclor 1221	ND		ug/kg	56.3	--	B
Aroclor 1232	ND		ug/kg	56.3	--	B
Aroclor 1242	ND		ug/kg	56.3	--	B
Aroclor 1248	ND		ug/kg	37.5	--	B
Aroclor 1254	ND		ug/kg	56.3	--	B
Aroclor 1260	ND		ug/kg	37.5	--	B
Aroclor 1262	ND		ug/kg	18.8	--	B
Aroclor 1268	ND		ug/kg	18.8	--	B
PCBs, Total	ND		ug/kg	18.8	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	71		30-150	A

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	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 10-13,19,33,40-41,45,51-52 Batch: WG1281488-1						
Aroclor 1016	ND		ug/kg	32.8	--	A
Aroclor 1221	ND		ug/kg	32.8	--	A
Aroclor 1232	ND		ug/kg	32.8	--	A
Aroclor 1242	ND		ug/kg	32.8	--	A
Aroclor 1248	ND		ug/kg	32.8	--	A
Aroclor 1254	ND		ug/kg	32.8	--	A
Aroclor 1260	ND		ug/kg	32.8	--	A
Aroclor 1262	ND		ug/kg	32.8	--	A
Aroclor 1268	ND		ug/kg	32.8	--	A
PCBs, Total	ND		ug/kg	32.8	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	96		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8082A
Analytical Date: 09/12/19 05:18
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 56-58,61,66-67,74-75,86-87,90,99-100,102,105-107,110-112 Batch: WG1281518-1						
Aroclor 1016	ND		ug/kg	32.2	--	A
Aroclor 1221	ND		ug/kg	32.2	--	A
Aroclor 1232	ND		ug/kg	32.2	--	A
Aroclor 1242	ND		ug/kg	32.2	--	A
Aroclor 1248	ND		ug/kg	32.2	--	A
Aroclor 1254	ND		ug/kg	32.2	--	A
Aroclor 1260	ND		ug/kg	32.2	--	A
Aroclor 1262	ND		ug/kg	32.2	--	A
Aroclor 1268	ND		ug/kg	32.2	--	A
PCBs, Total	ND		ug/kg	32.2	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	81		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 09/16/19 17:01
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 09/07/19 14:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 115,117-118,121-122,125-126,129-130,137-141 Batch: WG1281533-1						
Aroclor 1016	ND		ug/kg	32.5	--	A
Aroclor 1221	ND		ug/kg	32.5	--	A
Aroclor 1232	ND		ug/kg	32.5	--	A
Aroclor 1242	ND		ug/kg	32.5	--	A
Aroclor 1248	ND		ug/kg	32.5	--	A
Aroclor 1254	ND		ug/kg	32.5	--	A
Aroclor 1260	ND		ug/kg	32.5	--	A
Aroclor 1262	ND		ug/kg	32.5	--	A
Aroclor 1268	ND		ug/kg	32.5	--	A
PCBs, Total	ND		ug/kg	32.5	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 09/10/19 14:23
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 09/08/19 17:20
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 15-18,22-25,32 Batch: WG1281633-1						
Aroclor 1016	ND		ug/kg	32.7	--	A
Aroclor 1221	ND		ug/kg	32.7	--	A
Aroclor 1232	ND		ug/kg	32.7	--	A
Aroclor 1242	ND		ug/kg	32.7	--	A
Aroclor 1248	ND		ug/kg	32.7	--	A
Aroclor 1254	ND		ug/kg	32.7	--	A
Aroclor 1260	ND		ug/kg	32.7	--	A
Aroclor 1262	ND		ug/kg	32.7	--	A
Aroclor 1268	ND		ug/kg	32.7	--	A
PCBs, Total	ND		ug/kg	32.7	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	62		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-09 Batch: WG1281465-2 WG1281465-3									
Aroclor 1016	73		82		40-140	12		30	B
Aroclor 1260	67		75		40-140	11		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		74		30-150	B
Decachlorobiphenyl	76		83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		69		30-150	A
Decachlorobiphenyl	63		69		30-150	A



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 10-13,19,33,40-41,45,51-52 Batch: WG1281488-2 WG1281488-3									
Aroclor 1016	75		76		40-140	1		30	A
Aroclor 1260	63		63		40-140	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		84		30-150	B
Decachlorobiphenyl	87		82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		83		30-150	A
Decachlorobiphenyl	80		74		30-150	A



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 56-58,61,66-67,74-75,86-87,90,99-100,102,105-107,110-112 Batch: WG1281518-2 WG1281518-3									
Aroclor 1016	78		80		40-140	3		30	A
Aroclor 1260	71		72		40-140	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		77		30-150	B
Decachlorobiphenyl	88		88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		76		30-150	A
Decachlorobiphenyl	76		77		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 115,117-118,121-122,125-126,129-130,137-141 Batch: WG1281533-2 WG1281533-3									
Aroclor 1016	72		73		40-140	1		30	A
Aroclor 1260	72		75		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	B
Decachlorobiphenyl	95		90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		67		30-150	A
Decachlorobiphenyl	77		78		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 15-18,22-25,32 Batch: WG1281633-2 WG1281633-3									
Aroclor 1016	84		89		40-140	6		30	A
Aroclor 1260	60		55		40-140	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		69		30-150	B
Decachlorobiphenyl	68		64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		71		30-150	A
Decachlorobiphenyl	40		39		30-150	A



METALS

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-11

Date Collected: 09/04/19 08:50

Client ID: SB-4 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	3.39		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Barium, Total	62.6		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Cadmium, Total	0.672		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Chromium, Total	47.3		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Lead, Total	12.6		mg/kg	2.05	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.080	--	1	09/16/19 06:00	09/16/19 17:10	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.05	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Zinc, Total	30.1		mg/kg	2.05	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-12

Date Collected: 09/04/19 08:40

Client ID: SB-4 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	4.72		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Barium, Total	34.3		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Cadmium, Total	0.939		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Chromium, Total	11.3		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Lead, Total	99.1		mg/kg	2.14	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.081	--	1	09/16/19 06:00	09/16/19 17:14	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.14	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Zinc, Total	41.7		mg/kg	2.14	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-15

Date Collected: 09/04/19 09:10

Client ID: SB-4 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	9.82		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Barium, Total	170		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Cadmium, Total	0.733		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Chromium, Total	11.9		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Lead, Total	96.0		mg/kg	2.64	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.097	--	1	09/16/19 06:00	09/16/19 17:25	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.64	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Zinc, Total	109		mg/kg	2.64	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-17

Date Collected: 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: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	4.74		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Barium, Total	26.4		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Cadmium, Total	0.461		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Chromium, Total	17.8		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Lead, Total	48.7		mg/kg	2.06	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.078	--	1	09/16/19 06:00	09/16/19 17:27	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.06	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Zinc, Total	51.4		mg/kg	2.06	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-18

Date Collected: 09/04/19 09:30

Client ID: SB-3 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	4.35		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Barium, Total	27.5		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Cadmium, Total	0.565		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Chromium, Total	9.98		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Lead, Total	108		mg/kg	2.02	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.079	--	1	09/16/19 06:00	09/16/19 17:29	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.02	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Zinc, Total	46.6		mg/kg	2.02	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-21

Date Collected: 09/04/19 09:40

Client ID: SB-3 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.04		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Barium, Total	51.3		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Cadmium, Total	0.826		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Chromium, Total	25.0		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Lead, Total	153		mg/kg	2.29	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Mercury, Total	0.160		mg/kg	0.090	--	1	09/16/19 06:00	09/16/19 17:31	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.29	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Zinc, Total	74.4		mg/kg	2.29	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-23

Date Collected: 09/04/19 10:05

Client ID: SB-2 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	9.19		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Barium, Total	132		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Cadmium, Total	0.851		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Chromium, Total	67.9		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Lead, Total	215		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Mercury, Total	0.330		mg/kg	0.080	--	1	09/16/19 06:00	09/16/19 16:53	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Zinc, Total	123		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-24

Date Collected: 09/04/19 10:07

Client ID: SB-2 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.41		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Barium, Total	98.5		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Cadmium, Total	0.875		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Chromium, Total	47.7		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Lead, Total	149		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Mercury, Total	2.03		mg/kg	0.088	--	1	09/16/19 06:00	09/16/19 17:33	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Zinc, Total	116		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-27

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

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	7.93		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Barium, Total	126		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Cadmium, Total	1.33		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Chromium, Total	41.3		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Lead, Total	698		mg/kg	2.46	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Mercury, Total	0.393		mg/kg	0.092	--	1	09/16/19 06:00	09/16/19 17:35	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.46	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Zinc, Total	512		mg/kg	2.46	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-44

Date Collected: 09/04/19 12:16

Client ID: D-07 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.68		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Barium, Total	297		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Cadmium, Total	3.02		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Chromium, Total	26.2		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Lead, Total	2650		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Mercury, Total	0.326		mg/kg	0.081	--	1	09/16/19 06:00	09/16/19 17:37	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Zinc, Total	722		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-45

Date Collected: 09/04/19 12:30

Client ID: D-07 (7-9)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	3.80		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Barium, Total	17.2		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Cadmium, Total	ND		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Chromium, Total	15.2		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Lead, Total	10.5		mg/kg	2.49	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.095	--	1	09/16/19 06:00	09/16/19 17:39	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.49	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Zinc, Total	25.3		mg/kg	2.49	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
 Client ID: SB-DUP-5
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.93		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Barium, Total	168		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Cadmium, Total	2.78		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Chromium, Total	30.8		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Lead, Total	1220		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Mercury, Total	0.462		mg/kg	0.083	--	1	09/16/19 06:00	09/16/19 17:41	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Zinc, Total	534		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-55

Date Collected: 09/04/19 13:24

Client ID: E-06 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.53		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Barium, Total	269		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Cadmium, Total	1.82		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Chromium, Total	48.6		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Lead, Total	241		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Mercury, Total	2.59		mg/kg	0.079	--	1	09/16/19 06:00	09/16/19 17:43	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Zinc, Total	415		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-56

Date Collected: 09/04/19 13:35

Client ID: E-06 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.74		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Barium, Total	75.0		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Cadmium, Total	1.74		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Chromium, Total	24.6		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Lead, Total	50.8		mg/kg	2.45	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Mercury, Total	0.362		mg/kg	0.095	--	1	09/16/19 06:00	09/16/19 17:49	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.45	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Zinc, Total	52.3		mg/kg	2.45	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
 Client ID: B-09 (1-3)
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	17.0		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Barium, Total	328		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Cadmium, Total	6.38		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Chromium, Total	37.8		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Lead, Total	717		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Mercury, Total	0.789		mg/kg	0.083	--	1	09/16/19 06:00	09/16/19 17:07	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Silver, Total	0.481		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Zinc, Total	774		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-105

Date Collected: 09/05/19 10:02

Client ID: B-09 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	10.6		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Barium, Total	410		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Cadmium, Total	6.16		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Chromium, Total	40.0		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Lead, Total	1150		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Mercury, Total	0.887		mg/kg	0.083	--	1	09/16/19 06:00	09/16/19 17:08	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Silver, Total	2.11		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Zinc, Total	914		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-113

Date Collected: 09/05/19 10:54

Client ID: B-05 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	49.0		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Barium, Total	59.0		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Cadmium, Total	2.66		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Chromium, Total	19.4		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Lead, Total	242		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Mercury, Total	0.612		mg/kg	0.087	--	1	09/16/19 07:00	09/16/19 17:56	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Zinc, Total	245		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-115

Date Collected: 09/05/19 10:57

Client ID: B-05 (3-5)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	13.4		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Barium, Total	26.0		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Cadmium, Total	0.601		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Chromium, Total	15.8		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Lead, Total	33.4		mg/kg	2.81	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Mercury, Total	0.107		mg/kg	0.107	--	1	09/16/19 06:00	09/16/19 17:12	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.81	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Zinc, Total	31.7		mg/kg	2.81	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138

Date Collected: 09/05/19 13:36

Client ID: SB-1 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	5.94		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Barium, Total	74.6		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Cadmium, Total	1.11		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Chromium, Total	25.6		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Lead, Total	342		mg/kg	2.13	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Mercury, Total	0.121		mg/kg	0.081	--	1	09/16/19 06:00	09/16/19 17:16	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.13	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Zinc, Total	135		mg/kg	2.13	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-139

Date Collected: 09/05/19 13:39

Client ID: SB-1 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.12		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Barium, Total	58.3		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Cadmium, Total	0.921		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Chromium, Total	13.9		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Lead, Total	236		mg/kg	2.08	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Mercury, Total	0.306		mg/kg	0.084	--	1	09/16/19 08:20	09/16/19 16:15	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.08	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Zinc, Total	121		mg/kg	2.08	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-140

Date Collected: 09/05/19 00:00

Client ID: SB-DUP-1

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.44		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Barium, Total	99.9		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Cadmium, Total	1.04		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Chromium, Total	30.6		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Lead, Total	371		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Mercury, Total	0.139		mg/kg	0.078	--	1	09/16/19 06:00	09/16/19 17:18	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Zinc, Total	151		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**SAMPLE RESULTS**

Lab ID: L1940717-143

Date Collected: 09/05/19 13:48

Client ID: SB-1 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.94		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Barium, Total	100		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Cadmium, Total	1.60		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Chromium, Total	16.9		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Lead, Total	272		mg/kg	2.48	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Mercury, Total	0.329		mg/kg	0.095	--	1	09/16/19 06:00	09/16/19 17:20	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.48	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Zinc, Total	129		mg/kg	2.48	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 Batch: WG1284380-1									
Arsenic, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Barium, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Cadmium, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Chromium, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Lead, Total	ND	mg/kg	2.00	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Selenium, Total	ND	mg/kg	2.00	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Silver, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Zinc, Total	ND	mg/kg	2.00	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,115,138,140,143 Batch: WG1284435-1									
Mercury, Total	ND	mg/kg	0.083	--	1	09/16/19 06:00	09/16/19 16:47	97,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 113 Batch: WG1284436-1									
Mercury, Total	ND	mg/kg	0.083	--	1	09/16/19 07:00	09/16/19 17:50	97,7471B	GD

Prep Information

Digestion Method: EPA 7471B



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 139 Batch: WG1284469-1									
Mercury, Total	ND	mg/kg	0.083	--	1	09/16/19 08:20	09/16/19 16:05	97,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 139,143 Batch: WG1284649-1									
Arsenic, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Barium, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Cadmium, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Chromium, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Lead, Total	ND	mg/kg	2.00	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Selenium, Total	ND	mg/kg	2.00	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Silver, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Zinc, Total	ND	mg/kg	2.00	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 Batch: WG1284380-2 WG1284380-3 SRM Lot Number: D105-540								
Arsenic, Total	92		93		70-130	1		30
Barium, Total	80		87		75-125	8		30
Cadmium, Total	96		94		75-125	2		30
Chromium, Total	80		83		70-130	4		30
Lead, Total	83		84		71-128	1		30
Selenium, Total	91		92		63-137	1		30
Silver, Total	83		85		69-131	2		30
Zinc, Total	85		86		70-130	1		30
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,115,138,140,143 Batch: WG1284435-2 WG1284435-3 SRM Lot Number: D105-540								
Mercury, Total	94		96		60-141	2		30
MCP Total Metals - Mansfield Lab Associated sample(s): 113 Batch: WG1284436-2 WG1284436-3 SRM Lot Number: D105-540								
Mercury, Total	90		94		60-141	4		30
MCP Total Metals - Mansfield Lab Associated sample(s): 139 Batch: WG1284469-2 WG1284469-3 SRM Lot Number: D105-540								
Mercury, Total	91		96		60-141	5		30



Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 139,143 Batch: WG1284649-2 WG1284649-3 SRM Lot Number: D105-540					
Arsenic, Total	94	92	70-130	2	30
Barium, Total	86	89	75-125	3	30
Cadmium, Total	89	94	75-125	5	30
Chromium, Total	81	82	70-130	1	30
Lead, Total	84	81	71-128	4	30
Selenium, Total	92	90	63-137	2	30
Silver, Total	86	85	69-131	1	30
Zinc, Total	85	86	70-130	1	30

Matrix Spike Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-4 WG1284380-5 QC Sample: L1940717-23 Client ID: SB-2 (1-2)												
Arsenic, Total	9.19	10.2	18.9	95		17.7	82		75-125	7		35
Barium, Total	132	170	242	65	Q	238	61	Q	75-125	2		35
Cadmium, Total	0.851	4.33	4.58	86		4.80	90		75-125	5		35
Chromium, Total	67.9	17	82.3	85		53.8	0	Q	75-125	42	Q	35
Lead, Total	215	43.3	207	0	Q	200	0	Q	75-125	3		35
Selenium, Total	ND	10.2	9.20	90		9.60	93		75-125	4		35
Silver, Total	ND	25.4	22.2	87		22.9	88		75-125	3		35
Zinc, Total	123	42.4	155	75		185	144	Q	75-125	18		35

MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-7
WG1284380-8 QC Sample: L1940717-113 Client ID: B-05 (1-3)

Arsenic, Total	49.0	10.8	57.3	77		58.6	92		75-125	2		35
Barium, Total	59.0	180	226	93		215	90		75-125	5		35
Cadmium, Total	2.66	4.59	6.43	82		6.26	81		75-125	3		35
Chromium, Total	19.4	18	32.1	70	Q	32.8	77		75-125	2		35
Lead, Total	242	45.9	263	46	Q	304	140	Q	75-125	14		35
Selenium, Total	ND	10.8	11.1	103		10.7	103		75-125	4		35
Silver, Total	ND	27	24.3	90		23.3	89		75-125	4		35
Zinc, Total	245	45	613	818	Q	273	64	Q	75-125	77	Q	35

MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,115,138,140,143 QC Batch ID: WG1284435-4
WG1284435-5 QC Sample: L1940717-23 Client ID: SB-2 (1-2)

Mercury, Total	0.330	0.167	0.504	104		0.523	120		75-125	4		35
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Matrix Spike Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 113 QC Batch ID: WG1284436-4 WG1284436-5 QC Sample: L1940717-113 Client ID: B-05 (1-3)									
Mercury, Total	0.612	0.17	0.793	107	0.743	76	75-125	7	35
MCP Total Metals - Mansfield Lab Associated sample(s): 139 QC Batch ID: WG1284469-4 WG1284469-5 QC Sample: L1940717-139 Client ID: SB-1 (2-3)									
Mercury, Total	0.306	0.164	0.503	120	0.544	141	Q 75-125	8	35
MCP Total Metals - Mansfield Lab Associated sample(s): 139,143 QC Batch ID: WG1284649-4 WG1284649-5 QC Sample: L1940717-139 Client ID: SB-1 (2-3)									
Arsenic, Total	6.12	10.6	22.0	149	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	122	6.23	116	75-125	4	35
Chromium, Total	13.9	17.7	34.9	118	35.3	120	75-125	1	35
Lead, Total	236	45.2	271	77	293	125	75-125	8	35
Selenium, Total	ND	10.6	9.54	90	9.84	92	75-125	3	35
Silver, Total	ND	26.6	24.0	90	24.6	92	75-125	2	35
Zinc, Total	121	44.3	162	92	164	96	75-125	1	35

Project Name: TOMBARELLO SITE
Project Number: 17001426

**Lab Serial Dilution
 Analysis
 Batch Quality Control**

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
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MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-6
 QC Sample: L1940717-23 Client ID: SB-2 (1-2)

Barium, Total	132	103	mg/kg	22	Q	20
Chromium, Total	67.9	70.8	mg/kg	4		20
Lead, Total	215	279	mg/kg	30	Q	20
Zinc, Total	123	158	mg/kg	28	Q	20

MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-9
 QC Sample: L1940717-113 Client ID: B-05 (1-3)

Arsenic, Total	49.0	57.0	mg/kg	16		20
Barium, Total	59.0	49.4	mg/kg	16		20
Lead, Total	242	306	mg/kg	26	Q	20
Zinc, Total	245	313	mg/kg	28	Q	20



INORGANICS & MISCELLANEOUS

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-01
Client ID: AS-5
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:05
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-02
 Client ID: AS-6
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:15
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-03
Client ID: AS-7
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:20
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.0		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-04
Client ID: AS-8
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:25
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-05
Client ID: AS-1
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:45
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.0		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-06
Client ID: AS-2
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:50
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-07
Client ID: AS-3
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:55
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.6		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-08
 Client ID: AS-4
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 12:05
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-09
Client ID: AS-DUP-1
Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-10
Client ID: SB-4 (0-0.5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.9		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-11
Client ID: SB-4 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.846	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	5.7		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-12
Client ID: SB-4 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.857	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	93.3		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	6.3		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	190		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-13
Client ID: SB-4 (3-5)
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-15
Client ID: SB-4 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.06	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	75.3		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-16
Client ID: SB-3 (0-0.5)
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-17
Client ID: SB-3 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.853	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	6.5		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.846	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-19
Client ID: SB-3 (3-5)
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-21
Client ID: SB-3 (5-7)-2
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.966	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	6.2		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-22
Client ID: SB-2 (0-0.5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-23
Client ID: SB-2 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.885	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.9		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-24
Client ID: SB-2 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	1.13		mg/kg	0.897	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-25
Client ID: SB-2 (3-5)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:15
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-27
Client ID: SB-2 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.985	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-32
Client ID: E-08 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 11:25
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-33
Client ID: E-08 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 11:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.9		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-40
Client ID: D-07 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:12
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.3		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-41
Client ID: D-07 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:14
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-44
Client ID: D-07 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.881	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-45
Client ID: D-07 (7-9)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.03	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	77.6		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	6.4		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-50
Client ID: SB-DUP-5
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.881	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-51
Client ID: E-06 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:22
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.3		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-52
Client ID: E-06 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:26
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-55
Client ID: E-06 (1-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.856	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-56
Client ID: E-06 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.02	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	78.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-57
Client ID: E-05 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:10
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-58
Client ID: E-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:12
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-61
Client ID: SB-DUP-6
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-66
Client ID: D-09 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:50
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-67
Client ID: D-09 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:53
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.3		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-74
Client ID: B-07 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 15:27
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-75
 Client ID: B-07 (2-3)
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 15:29
 Date Received: 09/06/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

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
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-87
Client ID: C-08 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:11
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.9		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-90
 Client ID: SB-DUP-4
 Sample Location: LAWRENCE, MA

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

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.8		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
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:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.5		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-100
Client ID: SB-DUP-3
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.4		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-101
Client ID: B-09 (1-3)
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.857	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	93.3		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	7.0		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-102
Client ID: B-09 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:55
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

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

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.872	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	6.8		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-106
Client ID: A-06 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:33
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.7		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-107
Client ID: A-06 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:36
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.1		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-110
Client ID: SB-DUP-2
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.2		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 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:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.9		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-112
Client ID: B-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:51
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.918	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-115
Client ID: B-05 (3-5)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.15	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	69.3		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-117
Client ID: C-05 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:12
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-118
Client ID: C-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:15
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-121
Client ID: C-06 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:32
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.2		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-122
Client ID: C-06 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 11:34
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-125
Client ID: A-05 (1-2)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 12:12
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-126
Client ID: A-05 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 12:14
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.3		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-129
Client ID: E-02 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.0		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-130
Client ID: E-02 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:08
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-137
Client ID: SB-1 (0-0.5)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:33
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-138
Client ID: SB-1 (1-2)
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.870	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-139
Client ID: SB-1 (2-3)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.894	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	7.7		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-140
Client ID: SB-DUP-1
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.840	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	95.2		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	8.2		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-141
Client ID: SB-1 (3-5)
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:42
Date Received: 09/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.4		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

SAMPLE RESULTS

Lab ID: L1940717-143
Client ID: SB-1 (5-7)-2
Sample Location: LAWRENCE, MA

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.01	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab for sample(s): 11-12,101,105,113,115,138 Batch: WG1283971-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
MCP General Chemistry - Westborough Lab for sample(s): 15,17-18,21,24,27,139-140,143 Batch: WG1283979-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
MCP General Chemistry - Westborough Lab for sample(s): 23,44-45,50,55-56 Batch: WG1283980-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 15,18,23,27,44,50,55,113,139-140 Batch: WG1281496-1								
Oxidation/Reduction Potential	101		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 15,18,23,27,44,50,55,113,139-140 Batch: WG1281505-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 Batch: WG1281961-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 Batch: WG1281998-1								
Oxidation/Reduction Potential	101		-		90-110	-		20
MCP General Chemistry - Westborough Lab Associated sample(s): 11-12,101,105,113,115,138 Batch: WG1283971-2 WG1283971-3								
Chromium, Hexavalent	97		103		70-129	6		20
MCP General Chemistry - Westborough Lab Associated sample(s): 15,17-18,21,24,27,139-140,143 Batch: WG1283979-2 WG1283979-3								
Chromium, Hexavalent	97		103		70-129	6		20
MCP General Chemistry - Westborough Lab Associated sample(s): 23,44-45,50,55-56 Batch: WG1283980-2 WG1283980-3								
Chromium, Hexavalent	86		85		70-129	1		20



Matrix Spike Analysis

Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
MCP General Chemistry - Westborough Lab Associated sample(s): 11-12,101,105,113,115,138 QC Batch ID: WG1283971-4 WG1283971-5 QC Sample: L1940717-113 Client ID: B-05 (1-3)												
Chromium, Hexavalent	ND	772	726	94		840	106		75-125	15		35
MCP General Chemistry - Westborough Lab Associated sample(s): 15,17-18,21,24,27,139-140,143 QC Batch ID: WG1283979-4 WG1283979-5 QC Sample: L1940717-139 Client ID: SB-1 (2-3)												
Chromium, Hexavalent	ND	990	933	94		842	87		75-125	10		35
MCP General Chemistry - Westborough Lab Associated sample(s): 23,44-45,50,55-56 QC Batch ID: WG1283980-4 WG1283980-5 QC Sample: L1940717-23 Client ID: SB-2 (1-2)												
Chromium, Hexavalent	ND	762	793	104		804	102		75-125	1		35

Lab Duplicate Analysis Batch Quality Control

Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13,15-19,21-22 QC Batch ID: WG1281442-1 QC Sample: L1940717-01 Client ID: AS-5						
Solids, Total	100	99.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 23-25,27,32-33,40-41,44-45,50-52,55-58,61,66-67 QC Batch ID: WG1281445-1 QC Sample: L1940717-23 Client ID: SB-2 (1-2)						
Solids, Total	90.4	91.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 74-75,86-87,90,99-102,105-107,110-113,115,117-118 QC Batch ID: WG1281446-1 QC Sample: L1940717-74 Client ID: B-07 (1-2)						
Solids, Total	91.2	92.3	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 121-122,125-126,129-130,137-141,143 QC Batch ID: WG1281447-1 QC Sample: L1940717-121 Client ID: C-06 (1-2)						
Solids, Total	95.2	95.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 15,18,23,27,44,50,55,113,139-140 QC Batch ID: WG1281496-2 QC Sample: L1940717-113 Client ID: B-05 (1-3)						
Oxidation/Reduction Potential	140	140	mv	0		20
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 QC Batch ID: WG1281961-2 QC Sample: L1940717-11 Client ID: SB-4 (1-2)						
pH (H)	5.7	5.8	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 QC Batch ID: WG1281998-2 QC Sample: L1940717-11 Client ID: SB-4 (1-2)						
Oxidation/Reduction Potential	140	140	mv	0		20



Project Name: TOMBARELLO SITE
Project Number: 17001426

Serial_No:09201912:30
Lab Number: L1940717
Report Date: 09/20/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-01A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-02A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-03A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-04A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-05A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-06A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-07A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-08A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-09A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-100A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-101A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-101B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-101C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-101D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-101E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-101F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-101G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-102A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-103A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-104A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

Project Name: TOMBARELLO SITE
Project Number: 17001426

Serial_No:09201912:30
Lab Number: L1940717
Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-105A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-105B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-105C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-105E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-105F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-105G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-106A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-107A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-108A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-109A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-10A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-110A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-111A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-112A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-113A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-113B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-113C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-113D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-113E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-113E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-113E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-113F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-113G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-113G1	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-113G2	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		EPH-DELUX-10(14)
L1940717-114A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-115A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-115B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-115C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-115D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-115E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-115F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-115G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-116A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-117A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-118A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-119A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-11A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-11B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-11C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-11D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)

Project Name: TOMBARELLO SITE
Project Number: 17001426

Serial_No:09201912:30
Lab Number: L1940717
Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-11F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-11G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-120A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-121A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-122A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-123A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-124A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-125A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-126A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-127A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-128A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-129A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-12A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-12B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-12C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-12D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-12E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-12F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-12G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-130A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-131A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-132A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-133A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-134A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-135A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-136A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-137A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-138A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-138F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-138G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-139B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-139C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-139D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-139E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-139E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-139E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-139F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-139G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139G1	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139G2	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-13A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)

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L1940717-140A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-140B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-140C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-140D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-140E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-140F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-140G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-141A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-142A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-143A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-143E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-143F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-143G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-144A	Vial MeOH preserved	A	NA		4.9	Y	Absent		ARCHIVE()
L1940717-144B	Vial MeOH preserved	B	NA		3.5	Y	Absent		ARCHIVE()
L1940717-144C	Vial water preserved	A	NA		4.9	Y	Absent	07-SEP-19 07:00	ARCHIVE()
L1940717-144D	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	ARCHIVE()
L1940717-14A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-15A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-15B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-15C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)

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L1940717-15D	Plastic 2oz unreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-15E	Metals Only-Glass 60mL/2oz unreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-15F	Glass 120ml/4oz unreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-15G	Glass 60mL/2oz unreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-16A	Glass 60mL/2oz unreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-17A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-17B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-17C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-17E	Metals Only-Glass 60mL/2oz unreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-17F	Glass 120ml/4oz unreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-17G	Glass 120ml/4oz unreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-18A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-18B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-18C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-18D	Plastic 2oz unreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-18E	Metals Only-Glass 60mL/2oz unreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-18F	Glass 120ml/4oz unreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-18G	Glass 120ml/4oz unreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-19A	Glass 60mL/2oz unreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-20A	Glass 60mL/2oz unreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-21A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-21B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)

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L1940717-21C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-21E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-21F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-21G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),PH-9045(1),EPH-DELUX-10(14)
L1940717-22A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-23A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-23B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-23C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-23E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-23E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-23E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-23F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-23G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-23G1	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-23G2	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-24A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-24B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-24C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-24D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)

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L1940717-24E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-24F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-24G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-25A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-26A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-27A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-27E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-27F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-27G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-28A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-29A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-30A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-31A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-32A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-33A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-34A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-35A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-36A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-37A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-38A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-39A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

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L1940717-40A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-41A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-42A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-43A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-44A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-44E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-44F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-44G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-45A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-45B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-45C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-45E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-45F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-45G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-46A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-47A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-48A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-49A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-50A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-50B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-50C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-50D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-50E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-50F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-50G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-51A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-52A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-53A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-54A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-55A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-55B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-55C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-55D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-55E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-55F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-55G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-56A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-56B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-56C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-56E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-56F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-56G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-57A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)

Project Name: TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-58A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-59A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-60A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-61A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-62A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-63A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-64A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-65A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-66A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-67A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-68A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-69A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-70A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-71A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-72A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-73A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-74A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-75A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-76A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-77A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-78A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-79A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-80A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-81A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-82A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-83A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-84A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-85A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

Project Name: TOMBARELLO SITE
Project Number: 17001426

Serial_No:09201912:30
Lab Number: L1940717
Report Date: 09/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-86A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-87A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-88A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-89A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-90A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-91A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-92A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-93A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-94A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-95A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-96A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-97A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-98A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-99A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)

*Values in parentheses indicate holding time in days



Project Name: TOMBARELLO SITE
Project Number: 17001426

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



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

Terms

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Project Name: TOMBARELLO SITE
Project Number: 17001426

Lab Number: L1940717
Report Date: 09/20/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 68 Annual Book of ASTM (American Society for Testing and Materials) Standards following extraction by SW-846 EPA Method 9045C under the requirements of MADEP BWSC, WSC-CAM-VIB. August 2004.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIB, July 2010.
- 98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE 1 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
TEL: 508-898-9220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederellc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19 ALPHA Job #: L1940717

Report Information Data Deliverables Billing Information

FAX EMAIL Same as Client info PO #: 17001426

ADEx Add'l Deliverables - GEI - EFWEDD

Regulatory Requirements/Report Limits

Table with columns for State/Fed Program and Criteria

ANALYSIS

Main analysis table with columns for Sample ID, Collection Date/Time, Matrix, Sampler's Initials, and various chemical analytes (PCB w/soxhlet, EPH, RCRA-8 Metals, Zinc, Hexavalent Chromium, VOCs, etc.). Includes handwritten data for samples AS-5 through AS-10 and SB-4.

SAMPLE HANDLING
Filtration
 Done
 Not Needed
Preservation
 Lab to do
 Lab to do
(Please specify below)

TOTAL # BOTTLES

Sample Specific Comments

Container Type and Preservative information table

Relinquished By and Received By signature and date table

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 2 OF 15

Project Information

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Project Name: Tombarello Site

Client Information

Client: Credere Associates, LLC

Project Location: Lawrence, MA

Address: 776 Main Street

Project #: 17001426

Westbrook, Maine

Project Manager: Sean Gannon

Phone: 207-828-1272

ALPHA Quote #:

Fax: Standard Rush (ONLY IF PRE-APPROVED)

Email: sgannon@crederellc.com

These samples have been Previously analyzed by Alpha Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/17 ALPHA Job #: L1940717

Report Information Data Deliverables Billing Information

FAX EMAIL Same as Client info PO #: 17001426

ADEx Add'l Deliverables - GET - EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs									SAMPLE HANDLING	TOTAL # BOTTLES		
		Date	Time																			Filtration	
40717-11	SB-4 (1-2)	9.4.19	0850	Soil	SF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
-12	SB-4 (2-3)		0840			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
-13	SB-4 (3-5)		0905			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
-14	SB-4 (5-7) -1		0900			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
-15	SB-4 (5-7) -2		0900			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
-16	SB-3 (0-0.5)		0920			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
-17	SB-3 (1-2)		0925			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
-18	SB-3 (2-3)		0930			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
-19	SB-3 (3-5)		0935			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
-20	SB-3 (5-7) -1		0940			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1

Done
 Not Needed
 Lab to do
 Lab to do
 (Please specify below)

Sample Specific Comments

HOLD

Hold

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-11	SB-4 (1-2)	9.4.19	0850	Soil	SF
-12	SB-4 (2-3)		0840		
-13	SB-4 (3-5)		0905		
-14	SB-4 (5-7) -1		0900		
-15	SB-4 (5-7) -2		0900		
-16	SB-3 (0-0.5)		0920		
-17	SB-3 (1-2)		0925		
-18	SB-3 (2-3)		0930		
-19	SB-3 (3-5)		0935		
-20	SB-3 (5-7) -1		0940		

Hold SB-4 (5-7) -1 pending approval
 Hold SB-3 (5-7) pending approval
 Some samples with 7 bottles indicated may be missing total solids jar due to insufficient soil volume

Container Type: jar
 Preservative: - - - - -
 Relinquished By: [Signature]
 Date/Time: 9.6.19/11:30
 Received By: [Signature]
 Date/Time: 9/6/19 11:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 3 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Crede Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederellc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Preservation
 Lab to do
 Lab to do (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-21	SB-3 (5-7)-2	9-4-19	0940	Soil	SF
-22	SB-2 (0-0.5)		1000		
-23	SB-2 (1-2)		1005		
-24	SB-2 (2-3)		1007		
-25	SB-2 (3-5)		1015		
-26	SB-2 (5-7)-1		1020		
-27	SB-2 (5-7)-2		1020		
-28	E-07 (1-2)		1100		
-29	E-07 (2-3)		1103		
-30	E-07 (3-5)		1106		

Sample Specific Comments

- SB-2(1-2) includes volume for MS/MSD (metals)
 - SB-2(5-7)-1 hold pending approval.
 - All E-07 samples held for approval
 - Some samples with 7 bottles indicated maybe missing total solids jar due to insufficient soil volume.

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9-6-19/1130	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9-6-19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 4 OF 5

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING
Filtration
 Done
 Not Needed
Preservation
 Lab to do
 Lab to do
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-31	E-07 (5-7)	9.4.19	1109	Soil	SG
-32	E-08 (1-2)		1125		
-33	E-08 (2-3)		1130		
-34	E-08 (3-5)		1135		
-35	E-08 (5-7)		1140		
-36	D-08 (1-2)		1153		
-37	D-08 (2-3)		1156		
-38	D-08 (3-5)		1159		
-39	D-08 (5-7)		1203		
-40	D-07 (1-2)		1212		

Hold for approval: E-07(5-7), E-08(3-5),
 E-08(5-7), All D-08 samples

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9.6.19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

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CHAIN OF CUSTODY

PAGE 5 OF 15

Project Information

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Project Name: Tombarello Site

Client Information

Client: Credere Associates, LLC

Project Location: Lawrence, MA

Address: 776 Main Street

Project #: 17001426

Westbrook, Maine

Project Manager: Sean Gannon

Phone: 207-828-1272

ALPHA Quote #:

Turn-Around Time

Fax: Standard Rush (ONLY IF PRE-APPROVED)

Email: sgannon@credereillc.com

These samples have been Previously analyzed by Alpha Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19 ALPHA Job #: L1940717

Report Information Data Deliverables Billing Information

FAX EMAIL Same as Client info PO #: 17001426

ADEx Add'l Deliverables - GEI-EFWED0

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

SAMPLE HANDLING

- Filtration
- Done
- Not Needed
- Lab to do
- Preservation
- Lab to do
- (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs										Sample Specific Comments			
		Date	Time																					
40717-41	D-07 (2-3)	9.4.19	1214	soil	SF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1	
-42	D-07 (3-5)		1220			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-43	D-07 (5-7)		1225			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-44	D-07 (1-3)		1216			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7
-45	D-07 (7-9)		1230			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7
-46	D-07 D-06(1-2)		1250			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-47	D-06 (2-3)		1253			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-48	D-06 (3-5)		1256			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-49	D-06 (5-7)		1259			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-50	SB-DUP-5		-			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7

Hold For approval: D-07(3-5), D-07(3-5), all D-06
 - 5 small samples with 7 bottles indicated may be missing total Solids w/due to insufficient soil volume

Container Type	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 845	<i>[Signature]</i>	9.6.19 1845
Rob Mauro	9/6/19 2040	Rob Mauro	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 6 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credere.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Preservation
 Lab to do
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-51	E-06 (1-2)	9.4.19	1322	Soil	SF
-52	E-06 (2-3)		1326		
-53	E-06 (3-5)		1328		
-54	E-06 (5-7)-1		1335		
-55	E-06 (1-3)		1324		
-56	E-06 (5-7)-2		1335		
-57	E-05 (1-2)		1410		
-58	E-05 (2-3)		1412		
-59	E-05 (3-5)		1414		
-60	E-05 (5-7)		1416		

Sample Specific Comments

Hold
Hold

Hold
Hold

Hold: E-06 (3-5), E-06 (5-7)-1, E-05 (3-5)

E-05 (5-7)
 Some samples with 7 bottles indicated
 may be missing totals solids jar due
 to insufficient soil volume

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1841	<i>[Signature]</i>	9/6/19 1841
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9/6/19 2040

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CHAIN OF CUSTODY

PAGE 7 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credereillc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI_EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-61	SB-DUP-6	9.4.19	-	Soil	SF
-62	66 D-05 (1-2)		1430		
-63	D-05 (2-3)		1433		
-64	D-05 (3-5)		1436		
-65	D-05 (5-7)		1439		
-66	D-09 (1-2)		1450		
-67	D-09 (2-3)		1453		
-68	D-09 (3-5)		1456		
-69	D-09 (5-7)		1459		
-76	B-06 (1-2)		1515		

Hold: All D-05; D-09 (3-5, 5-7), B-06

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
Rob Mearns	9/6/19	Rob Mearns	9.6.19 1845

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CHAIN OF CUSTODY

PAGE 8 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-8300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credereilc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables Billing Information

FAX EMAIL Same as Client info PO #: 17001426
 ADEx Add'l Deliverables - GEI-EFWED

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Preservation
 Lab to do
 Lab to do (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-71	B-06 (2-3)	9.4.19	1518	Soil	SF
-72	B-06 (3-5)		1521		
-73	B-06 (5-7)		1524		
-74	B-07 (1-2)		1527		
-75	B-07 (2-3)		1529		
-76	B-07 (3-5)		1531		
-77	B-07 (5-7)		1533		
-78	C-07 (1-2)	9.5.19	0825		
-79	C-07 (2-3)		0830		
-80	C-07 (3-5)		0835		

Hold all B-06 pending approval
 B-07 (3-5, 5-7), all C-07

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/11:30	<i>[Signature]</i>	9/6/19 11:30
<i>[Signature]</i>	9/6/19/1845	<i>[Signature]</i>	9.6.19/1845
<i>[Signature]</i>	9.6.19/2040	<i>[Signature]</i>	9.6.19/2040

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FORM NO: 01-010-NJ (rev. 9-JAN-12)



CHAIN OF CUSTODY

PAGE 9 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab:

ALPHA Job #:

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-81	C-07(5-7)	9.5.19	0840	Soil	SF
-82	A-07(1-2)		0853		
-83	A-07(2-3)		0856		
-84	A-07(3-5)		0859		
-85	A-07(5-7)		0902		
-86	C-08(1-2)		0908		
-87	C-08(2-3)		0911		
-88	C-08(3-5)		0914		
-89	C-08(5-7)		0917		
-90	SB-DUP-4				

Hold for approval: C-07(5-7), all A-07 samples, C-08(3-5), C-08(5-7).

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1841	<i>[Signature]</i>	9.6.19 1841
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 10 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credere.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
4077-91	B-08 (1-2)	9-5-19	0928	Soil	SF
-92	B-08 (2-3)		0930		
-93	B-08 (3-5)		0932		
-94	B-08 (5-7)		0934		
-95	C-09 (1-2)		0940		
-96	C-09 (2-3)		0942		
-97	C-09 (3-5)		0944		
-98	C-09 (5-7)		0946		
-99	B-09 (1-2)		0953		
-100	SB-DUP -3				

Held for approval: all B-08, all C-09

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]
 R. Manto

9.6.19/1845
 9.6.19 2040

[Signature]
 Rob Manto
 9.6.19 1845
 9.6.19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 11 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Creder Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederllc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
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SAMPLE HANDLING
Filtration
 Done
 Not Needed
 Lab to do
Preservation
 Lab to do
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-101	B-09(1-3)	9.5.19	0954	Soil	SF
-102	B-09(2-3)		0955		
-103	B-09(3-5)		0957		
-104	B-09(5-7)-1		0959		
-105	B-09(5-7)-2		1002		
-106	A-06(1-2)		1033		
-107	A-06(2-3)		1036		
-108	A-06(3-5)		1039		
-109	A-06(5-7)		1042		
-110	SB-DUP-2				

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Hold for approval: B-09(3-5, 5-7)
- B-09(5-7)-2 no total solids as due to insufficient soil volume

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1138	<i>[Signature]</i>	9/6/19 11:30
<i>[Signature]</i>	9/6/19 1841	<i>[Signature]</i>	9/6/19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2140

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FORM NO: 91-2(1-HZ) (rev. 8-JAN-12)



CHAIN OF CUSTODY

PAGE 2 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-111	A-05 B-05(1-2)	9-5-19	1048	Soil	S.F
-112	B-05(2-3)		1051		
-113	B-05(1-3)		1054		
-114	B-05(3-5)-1		1057		
-115	B-05(3-5)-2		1057		
-116	B-05(5-7)		1100		
-117	C-05(1-2)		1112		
-118	C-05(2-3)		1115		
-119	C-05(3-5)		1118		
-120	C-05(5-7)		1121		

Sample Specific Comments

MS/MSD
 Hold
 Hold
 Hold
 Hold
 Hold

- Hold for approval: B-05(3-5)-1, B-05(5-7), C-05(3-5), C-05(5-7)
 - B-05(1-3) includes variance for MS/MSD (metals)

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Relinquished By:	Date/Time		Received By:	Date/Time													
<i>[Signature]</i>	9-6-19/1842		<i>[Signature]</i>	9/6/19 11:32													
<i>[Signature]</i>	9/6/19 1845		<i>[Signature]</i>	9-6-19 1845													
<i>[Signature]</i>	9-6-19 2040		<i>[Signature]</i>	9-6-19 2040													

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CHAIN OF CUSTODY

PAGE 13 OF 15

Westborough, MA
 TEL: 508-898-9220
 FAX: 508-898-9193

Mansfield, MA
 TEL: 508-822-9300
 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax: Standard Rush (ONLY IF PRE-APPROVED)

Email: sgannon@crederellc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Due Date: Time:

Date Rec'd in Lab: 9/16/19

ALPHA Job #: L1940717

Report Information Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #: 17001426

GEI - EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-121	C-06 (1-2)	9.5.19	1132	Soil	SF
-122	C-06 (2-3)		1134		
-123	C-06 (3-5)		1136		
-124	C-06 (5-7)		1138		
-125	A-05 (1-2)		1212		
-126	A-05 (2-3)		1214		
-127	A-05 (3-5)		1216		
-128	A-05 (5-7)		1218		
-129	E-02 (1-2)		1305		
-130	E-02 (2-3)		1308		

-Hold for approval: C-06 (3-5, 5-7)

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1841	<i>[Signature]</i>	9.6.19 1845
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9-6-19 2040

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CHAIN OF CUSTODY

PAGE 14 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credereassoc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L19407M

Report Information Data Deliverables Billing Information

FAX EMAIL Same as Client info PO #: 17001426

ADEX Add'l Deliverables - GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs							SAMPLE HANDLING Filtration <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not Needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)	TOTAL # BOTTLES
		Date	Time																
40717-131	E-02 (3-5)	9.5.19	1311	Soil	SF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-132	E-02 (5-7)		1314			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-133	B-04 (1-2)		1320			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-134	B-04 (2-3)		1323			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
+135	B-04 (3-5)		1326			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-136	B-04 (5-7)		1329			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-137	SB-1 (0-0.5)		1333			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
-138	SB-1 (1-2)		1336			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7
-139	SB-1 (2-3)		1339			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MS/MSD	11
-140	SB-DV0-1					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7

- Hold for approval: E-02 (3-5, 5-7)
- SB-1 (2-3) include;
volume for MS/MSD (metals)

Container Type - - - - -
Preservative - - - - -

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.5.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9/6/19 1845
<i>[Signature]</i>	9/6/19 2040	<i>[Signature]</i>	9-6-19 2040

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CHAIN OF CUSTODY

PAGE 15 OF 15

Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credere.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

Report Information Data Deliverables Billing Information

FAX EMAIL
 ADEx Add'l Deliverables

Same as Client Info PO #: 17001426

GEI-EFWEDD

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Preservation
 Lab to do
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-141	58-1(3-5)	9.5.19	1342	Soil	SF
-142	58-1(5-7)-1		1345		
-143	58-1(5-7)-2		1348		

Sample Specific Comments

Hold

1
1
7

58-1(3-5) only analyzed for PCBs
 - Hold for approval: 58-1(5-7)

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9/6/19 11:32	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9/6/19 1845
<i>[Signature]</i>	9/6/19 2040	<i>[Signature]</i>	9/6/19 2040

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Method Blank Summary

Form 4

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Lab Sample ID : WG1284565-5
Instrument ID : VOA123
Matrix : SOIL

Lab Number : L1940717
Project Number : 17001426
Lab File ID : V23190914A05

Analysis Date : 09/14/19 09:00

Client Sample No.	Lab Sample ID	Analysis Date
WG1284565-3LCS	WG1284565-3	09/14/19 07:24
WG1284565-4LCSD	WG1284565-4	09/14/19 07:48
SB-2 (5-7)-2	L1940717-27	09/14/19 16:15
D-07 (1-3)	L1940717-44	09/14/19 16:39
D-07 (7-9)	L1940717-45	09/14/19 17:03

Method Blank Summary

Form 4

Volatiles

Client	: Credere Associates, LLC	Lab Number	: L1940717
Project Name	: TOMBARELLO SITE	Project Number	: 17001426
Lab Sample ID	: WG1284397-5	Lab File ID	: V17190914A05
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

Method Blank Summary
Form 4
Volatiles

Client	: Credere Associates, LLC	Lab Number	: L1940717
Project Name	: TOMBARELLO SITE	Project Number	: 17001426
Lab Sample ID	: WG1284521-5	Lab File ID	: V17190915A05
Instrument ID	: VOA117		
Matrix	: SOIL	Analysis Date	: 09/15/19 14:14

Client Sample No.	Lab Sample ID	Analysis Date
WG1284521-3LCS	WG1284521-3	09/15/19 12:56
WG1284521-4LCSD	WG1284521-4	09/15/19 13:22
SB-4 (5-7)-2	L1940717-15	09/15/19 17:18

**Method Blank Summary
Form 4
Volatiles**

Client	: Credere Associates, LLC	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

Method Blank Summary Form 4 Volatiles

Client : Credere Associates, LLC Project Name : TOMBARELLO SITE Lab Sample ID : WG1284598-5 Instrument ID : VOA123 Matrix : SOIL	Lab Number : L1940717 Project Number : 17001426 Lab File ID : V23190915A04 Analysis Date : 09/15/19 17:36
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------

Client Sample No.	Lab Sample ID	Analysis Date
WG1284598-3LCS	WG1284598-3	09/15/19 16:24
WG1284598-4LCSD	WG1284598-4	09/15/19 16:48
SB-4 (1-2)	L1940717-11	09/15/19 20:33
SB-1 (1-2)	L1940717-138	09/15/19 20:57
SB-1 (2-3)	L1940717-139	09/15/19 21:21
E-06 (1-3)	L1940717-55	09/15/19 21:45
E-06 (5-7)-2	L1940717-56	09/15/19 22:09
SB-1 (5-7)-2	L1940717-143	09/15/19 22:33
B-05 (3-5)-2	L1940717-115	09/15/19 22:57
B-09 (1-3)	L1940717-101	09/16/19 01:46

Method Blank Summary

Form 4

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Lab Sample ID : WG1284596-5
Instrument ID : VOA123
Matrix : SOIL

Lab Number : L1940717
Project Number : 17001426
Lab File ID : V23190915A04
Analysis Date : 09/15/19 17:36

Client Sample No.	Lab Sample ID	Analysis Date
WG1284596-3LCS	WG1284596-3	09/15/19 16:24
WG1284596-4LCSD	WG1284596-4	09/15/19 16:48
B-05 (1-3)	L1940717-113	09/15/19 18:32
SB-4 (2-3)	L1940717-12	09/15/19 19:20
SB-DUP-5	L1940717-50	09/15/19 19:44

Method Blank Summary

Form 4

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Lab Sample ID : WG1284780-5
Instrument ID : VOA123
Matrix : SOIL

Lab Number : L1940717
Project Number : 17001426
Lab File ID : V23190916A04
Analysis Date : 09/16/19 08:09

Client Sample No.	Lab Sample ID	Analysis Date
WG1284780-3LCS	WG1284780-3	09/16/19 06:56
WG1284780-4LCSD	WG1284780-4	09/16/19 07:20
D-07 (1-3)	L1940717-44	09/16/19 09:21

**Method Blank Summary
Form 4
Volatiles**

Client	: 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	Analysis Date	: 09/16/19 08:09

Client Sample No.	Lab Sample ID	Analysis Date
WG1284781-3LCS	WG1284781-3	09/16/19 06:56
WG1284781-4LCSD	WG1284781-4	09/16/19 07:20
SB-3 (2-3)	L1940717-18	09/16/19 09:45
B-09 (5-7)-2	L1940717-105	09/16/19 10:09
SB-DUP-1	L1940717-140	09/16/19 10:33

**Method Blank Summary
Form 4
Volatiles**

Client	: Credere Associates, LLC	Lab Number	: L1940717
Project Name	: TOMBARELLO SITE	Project Number	: 17001426
Lab Sample ID	: WG1284929-5	Lab File ID	: V23190916N04
Instrument ID	: VOA123		
Matrix	: SOIL	Analysis Date	: 09/16/19 20:21

Client Sample No.	Lab Sample ID	Analysis Date
WG1284929-3LCS	WG1284929-3	09/16/19 19:09
WG1284929-4LCSD	WG1284929-4	09/16/19 19:33
SB-1 (1-2)	L1940717-138	09/16/19 20:46
SB-1 (5-7)-2	L1940717-143	09/16/19 21:10

**Method Blank Summary
Form 4
Volatiles**

Client	: Credere Associates, LLC	Lab Number	: L1940717
Project Name	: TOMBARELLO SITE	Project Number	: 17001426
Lab Sample ID	: WG1285102-5	Lab File ID	: V23190917A05
Instrument ID	: VOA123		
Matrix	: SOIL	Analysis Date	: 09/17/19 09:02

Client Sample No.	Lab Sample ID	Analysis Date
WG1285102-3LCS	WG1285102-3	09/17/19 07:26
WG1285102-4LCSD	WG1285102-4	09/17/19 07:50
SB-2 (5-7)-2	L1940717-27	09/17/19 12:15

Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190914A01
 Sample No : WG1284565-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	80	-.01
Dichlorodifluoromethane	0.268	0.268	-	0	20	68	0
Chloromethane	0.275	0.309	-	-12.4	20	78	0
Vinyl chloride	0.312	0.296	-	5.1	20	64	0
Bromomethane	0.233	0.23	-	1.3	20	74	0
Chloroethane	0.235	0.204	-	13.2	20	62	0
Trichlorofluoromethane	0.429	0.407	-	5.1	20	64	0
Ethyl ether	0.143	0.115	-	19.6	20	57	0
1,1-Dichloroethene	0.214	0.196	-	8.4	20	63	0
Carbon disulfide	0.725	0.638	-	12	20	64	0
Freon-113	0.216	0.201	-	6.9	20	63	0
Acrolein	0.05	0.044*	-	12	20	65	-.01
Methylene chloride	0.28	0.222	-	20.7*	20	61	0
Acetone	20	20.299	-	-1.5	20	73	-.02
trans-1,2-Dichloroethene	0.245	0.225	-	8.2	20	64	0
Methyl acetate	0.187	0.182	-	2.7	20	69	-.02
Methyl tert-butyl ether	0.725	0.57	-	21.4*	20	55	-.01
tert-Butyl alcohol	0.038	0.028*	-	26.3*	20	53	-.01
Diisopropyl ether	0.748	0.766	-	-2.4	20	72	-.01
1,1-Dichloroethane	0.436	0.409	-	6.2	20	65	-.01
Halothane	0.182	0.164	-	9.9	20	61	-.01
Acrylonitrile	0.093	0.084	-	9.7	20	63	-.01
Ethyl tert-butyl ether	0.763	0.657	-	13.9	20	61	-.02
Vinyl acetate	0.662	0.65	-	1.8	20	70	-.01
cis-1,2-Dichloroethene	0.275	0.243	-	11.6	20	62	-.01
2,2-Dichloropropane	0.366	0.333	-	9	20	63	0
Bromochloromethane	0.134	0.119	-	11.2	20	62	-.01
Cyclohexane	0.39	0.372	-	4.6	20	65	0
Chloroform	0.43	0.395	-	8.1	20	64	-.01
Ethyl acetate	0.3	0.275	-	8.3	20	66	-.02
Carbon tetrachloride	0.331	0.31	-	6.3	20	64	-.01
Tetrahydrofuran	0.106	0.101	-	4.7	20	68	-.02
Dibromofluoromethane	0.262	0.249	-	5	20	75	0
1,1,1-Trichloroethane	0.365	0.352	-	3.6	20	64	-.01
2-Butanone	0.139	0.123	-	11.5	20	69	-.02
1,1-Dichloropropene	0.318	0.291	-	8.5	20	61	-.01
Benzene	0.959	0.855	-	10.8	20	61	-.01
tert-Amyl methyl ether	0.734	0.563	-	23.3*	20	54	-.02
1,2-Dichloroethane-d4	0.29	0.281	-	3.1	20	80	-.01
1,2-Dichloroethane	0.342	0.307	-	10.2	20	64	-.02
Methyl cyclohexane	0.415	0.346	-	16.6	20	57	-.01
Trichloroethene	0.249	0.226	-	9.2	20	62	-.01
Dibromomethane	0.164	0.14	-	14.6	20	61	-.02

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190914A01
 Sample No : WG1284565-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.228	-	10.2	20	62	0
2-Chloroethyl vinyl ether	0.185	0.151	-	18.4	20	57	-.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	-.01
p-Isopropyltoluene	2.388	2.268	-	5	20	63	-.02
1,3-Dichlorobenzene	1.306	1.21	-	7.4	20	64	-.01
1,4-Dichlorobenzene	1.32	1.21	-	8.3	20	64	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190914A01
 Sample No : WG1284565-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.335	-	8.9	20	62	-.01
n-Butylbenzene	2.231	2.186	-	2	20	65	-.01
1,2-Dichlorobenzene	1.255	1.122	-	10.6	20	62	-.01
1,2,4,5-Tetramethylbenzene	2.325	2.074	-	10.8	20	61	-.01
1,2-Dibromo-3-chloropropan	0.136	0.101	-	25.7*	20	54	-.01
1,3,5-Trichlorobenzene	0.913	0.842	-	7.8	20	63	-.01
Hexachlorobutadiene	0.428	0.367	-	14.3	20	59	-.01
1,2,4-Trichlorobenzene	0.862	0.789	-	8.5	20	63	-.01
Naphthalene	2.486	2.034	-	18.2	20	56	-.01
1,2,3-Trichlorobenzene	0.842	0.734	-	12.8	20	60	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190914A02
 Sample No : WG1284397-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:48
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	51	0
Dichlorodifluoromethane	0.158	0.241	-	-52.5*	20	76	0
Chloromethane	0.23	0.305	-	-32.6*	20	72	0
Vinyl chloride	0.21	0.199	-	5.2	20	49	0
Bromomethane	0.135	0.107	-	20.7*	20	46	0
Chloroethane	0.13	0.108	-	16.9	20	45	0
Trichlorofluoromethane	0.261	0.345	-	-32.2*	20	68	0
Ethyl ether	0.092	0.071	-	22.8*	20	41	0
1,1-Dichloroethene	0.198	0.172	-	13.1	20	45	0
Carbon disulfide	0.66	0.563	-	14.7	20	46	0
Freon-113	0.194	0.189	-	2.6	20	49	0
Acrolein	0.03	0.024*	-	20	20	43	0
Methylene chloride	0.219	0.201	-	8.2	20	49	0
Acetone	20	22.413	-	-12.1	20	52	0
trans-1,2-Dichloroethene	0.229	0.217	-	5.2	20	50	0
Methyl acetate	0.094	0.101	-	-7.4	20	61	0
Methyl tert-butyl ether	0.503	0.52	-	-3.4	20	53	0
tert-Butyl alcohol	0.017	0.016*	-	5.9	20	47	0
Diisopropyl ether	0.721	0.75	-	-4	20	53	0
1,1-Dichloroethane	0.421	0.458	-	-8.8	20	57	0
Halothane	0.188	0.166	-	11.7	20	46	0
Acrylonitrile	0.044	0.049*	-	-11.4	20	58	0
Ethyl tert-butyl ether	0.703	0.725	-	-3.1	20	53	0
Vinyl acetate	0.414	0.451	-	-8.9	20	55	0
cis-1,2-Dichloroethene	0.247	0.251	-	-1.6	20	54	0
2,2-Dichloropropane	0.376	0.435	-	-15.7	20	61	0
Bromochloromethane	0.098	0.104	-	-6.1	20	55	0
Cyclohexane	0.393	0.429	-	-9.2	20	56	0
Chloroform	0.417	0.486	-	-16.5	20	60	0
Ethyl acetate	0.153	0.159	-	-3.9	20	55	0
Carbon tetrachloride	0.334	0.424	-	-26.9*	20	65	0
Tetrahydrofuran	20	22.839	-	-14.2	20	53	0
Dibromofluoromethane	0.245	0.256	-	-4.5	20	52	0
1,1,1-Trichloroethane	0.382	0.463	-	-21.2*	20	63	0
2-Butanone	20	22.643	-	-13.2	20	61	0
1,1-Dichloropropene	0.316	0.333	-	-5.4	20	55	0
Benzene	0.93	0.911	-	2	20	53	0
tert-Amyl methyl ether	0.589	0.551	-	6.5	20	48	0
1,2-Dichloroethane-d4	0.249	0.307	-	-23.3*	20	63	0
1,2-Dichloroethane	0.268	0.36	-	-34.3*	20	69	0
Methyl cyclohexane	0.395	0.386	-	2.3	20	50	0
Trichloroethene	0.248	0.261	-	-5.2	20	57	0
Dibromomethane	0.112	0.128	-	-14.3	20	58	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190914A02
 Sample No : WG1284397-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/14/19 07:48
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.246	-	-8.4	20	57	0
2-Chloroethyl vinyl ether	0.109	0.111	-	-1.8	20	51	0
Bromodichloromethane	0.312	0.353	-	-13.1	20	60	0
1,4-Dioxane	0.00149	0.0013*	-	12.8	20	46	0
cis-1,3-Dichloropropene	0.358	0.379	-	-5.9	20	56	0
Chlorobenzene-d5	1	1	-	0	20	57	0
Toluene-d8	1.374	1.244	-	9.5	20	52	0
Toluene	0.82	0.789	-	3.8	20	57	0
4-Methyl-2-pentanone	0.079	0.078*	-	1.3	20	54	0
Tetrachloroethene	0.328	0.332	-	-1.2	20	59	0
trans-1,3-Dichloropropene	0.414	0.425	-	-2.7	20	59	0
Ethyl methacrylate	0.316	0.262	-	17.1	20	49	0
1,1,2-Trichloroethane	0.186	0.184	-	1.1	20	57	0
Chlorodibromomethane	0.279	0.294	-	-5.4	20	62	0
1,3-Dichloropropane	0.389	0.386	-	0.8	20	57	0
1,2-Dibromoethane	0.215	0.213	-	0.9	20	57	0
2-Hexanone	0.142	0.124	-	12.7	20	51	0
Chlorobenzene	0.904	0.88	-	2.7	20	59	0
Ethylbenzene	1.578	1.604	-	-1.6	20	59	0
1,1,1,2-Tetrachloroethane	0.315	0.327	-	-3.8	20	63	0
p/m Xylene	0.614	0.612	-	0.3	20	59	0
o Xylene	0.596	0.584	-	2	20	58	0
Styrene	0.957	0.942	-	1.6	20	58	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	68	0
Bromoform	0.312	0.316	-	-1.3	20	68	0
Isopropylbenzene	3.228	2.814	-	12.8	20	60	0
4-Bromofluorobenzene	1.085	0.913	-	15.9	20	57	0
Bromobenzene	0.692	0.636	-	8.1	20	63	0
n-Propylbenzene	3.81	3.41	-	10.5	20	62	0
1,4-Dichlorobutane	0.842	0.808	-	4	20	67	0
1,1,2,2-Tetrachloroethane	0.56	0.497	-	11.3	20	62	0
4-Ethyltoluene	3.347	2.817	-	15.8	20	59	0
2-Chlorotoluene	2.218	2.031	-	8.4	20	64	0
1,3,5-Trimethylbenzene	2.697	2.458	-	8.9	20	63	0
1,2,3-Trichloropropane	0.423	0.412	-	2.6	20	67	0
trans-1,4-Dichloro-2-buten	0.159	0.159	-	0	20	68	0
4-Chlorotoluene	2.339	2.116	-	9.5	20	63	0
tert-Butylbenzene	2.305	2.069	-	10.2	20	62	0
1,2,4-Trimethylbenzene	2.653	2.431	-	8.4	20	64	0
sec-Butylbenzene	3.508	3.195	-	8.9	20	63	0
p-Isopropyltoluene	2.943	2.695	-	8.4	20	63	0
1,3-Dichlorobenzene	1.397	1.354	-	3.1	20	67	0
1,4-Dichlorobenzene	1.386	1.341	-	3.2	20	68	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Instrument ID : VOA117
Lab File ID : V17190914A02
Sample No : WG1284397-2
Channel :

Lab Number : L1940717
Project Number : 17001426
Calibration Date : 09/14/19 07:48
Init. Calib. Date(s) : 07/26/19 07/26/19
Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.837	1.558	-	15.2	20	59	0
n-Butylbenzene	2.767	2.652	-	4.2	20	66	0
1,2-Dichlorobenzene	1.247	1.203	-	3.5	20	67	0
1,2,4,5-Tetramethylbenzene	2.774	2.346	-	15.4	20	59	0
1,2-Dibromo-3-chloropropan	0.076	0.074	-	2.6	20	66	0
1,3,5-Trichlorobenzene	1.032	0.953	-	7.7	20	65	0
Hexachlorobutadiene	0.472	0.451	-	4.4	20	67	0
1,2,4-Trichlorobenzene	0.835	0.819	-	1.9	20	68	0
Naphthalene	1.699	1.485	-	12.6	20	61	0
1,2,3-Trichlorobenzene	0.731	0.719	-	1.6	20	69	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284519-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	73	0
Dichlorodifluoromethane	0.158	0.223	-	-41.1*	20	101	0
Chloromethane	0.23	0.296	-	-28.7*	20	100	0
Vinyl chloride	0.21	0.217	-	-3.3	20	76	0
Bromomethane	0.135	0.121	-	10.4	20	75	0
Chloroethane	0.13	0.123	-	5.4	20	74	0
Trichlorofluoromethane	0.261	0.334	-	-28*	20	95	0
Ethyl ether	0.092	0.074	-	19.6	20	62	0
1,1-Dichloroethene	0.198	0.185	-	6.6	20	69	0
Carbon disulfide	0.66	0.596	-	9.7	20	69	0
Freon-113	0.194	0.196	-	-1	20	74	0
Acrolein	0.03	0.028*	-	6.7	20	70	0
Methylene chloride	0.219	0.211	-	3.7	20	75	0
Acetone	20	22.121	-	-10.6	20	73	0
trans-1,2-Dichloroethene	0.229	0.218	-	4.8	20	72	0
Methyl acetate	0.094	0.098*	-	-4.3	20	85	0
Methyl tert-butyl ether	0.503	0.494	-	1.8	20	72	0
tert-Butyl alcohol	0.017	0.016*	-	5.9	20	66	0
Diisopropyl ether	0.721	0.722	-	-0.1	20	74	0
1,1-Dichloroethane	0.421	0.447	-	-6.2	20	80	0
Halothane	0.188	0.17	-	9.6	20	69	0
Acrylonitrile	0.044	0.049*	-	-11.4	20	85	0
Ethyl tert-butyl ether	0.703	0.685	-	2.6	20	71	0
Vinyl acetate	0.414	0.428	-	-3.4	20	75	0
cis-1,2-Dichloroethene	0.247	0.245	-	0.8	20	75	0
2,2-Dichloropropane	0.376	0.387	-	-2.9	20	78	0
Bromochloromethane	0.098	0.101	-	-3.1	20	77	0
Cyclohexane	0.393	0.436	-	-10.9	20	82	0
Chloroform	0.417	0.435	-	-4.3	20	77	0
Ethyl acetate	0.153	0.154	-	-0.7	20	77	0
Carbon tetrachloride	0.334	0.366	-	-9.6	20	81	0
Tetrahydrofuran	20	23.627	-	-18.1	20	79	0
Dibromofluoromethane	0.245	0.245	-	0	20	72	0
1,1,1-Trichloroethane	0.382	0.408	-	-6.8	20	80	0
2-Butanone	20	22.25	-	-11.3	20	86	0
1,1-Dichloropropene	0.316	0.325	-	-2.8	20	77	0
Benzene	0.93	0.909	-	2.3	20	77	0
tert-Amyl methyl ether	0.589	0.536	-	9	20	67	0
1,2-Dichloroethane-d4	0.249	0.253	-	-1.6	20	74	0
1,2-Dichloroethane	0.268	0.302	-	-12.7	20	84	0
Methyl cyclohexane	0.395	0.399	-	-1	20	74	0
Trichloroethene	0.248	0.254	-	-2.4	20	80	0
Dibromomethane	0.112	0.122	-	-8.9	20	80	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284519-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.248	-	-9.3	20	82	0
2-Chloroethyl vinyl ether	0.109	0.108	-	0.9	20	71	0
Bromodichloromethane	0.312	0.325	-	-4.2	20	80	0
1,4-Dioxane	0.00149	0.00131*	-	12.1	20	66	0
cis-1,3-Dichloropropene	0.358	0.367	-	-2.5	20	78	0
Chlorobenzene-d5	1	1	-	0	20	79	0
Toluene-d8	1.374	1.246	-	9.3	20	72	0
Toluene	0.82	0.787	-	4	20	79	0
4-Methyl-2-pentanone	0.079	0.078*	-	1.3	20	76	0
Tetrachloroethene	0.328	0.323	-	1.5	20	80	0
trans-1,3-Dichloropropene	0.414	0.407	-	1.7	20	78	0
Ethyl methacrylate	0.316	0.266	-	15.8	20	69	0
1,1,2-Trichloroethane	0.186	0.185	-	0.5	20	80	0
Chlorodibromomethane	0.279	0.28	-	-0.4	20	81	0
1,3-Dichloropropane	0.389	0.391	-	-0.5	20	81	0
1,2-Dibromoethane	0.215	0.214	-	0.5	20	81	0
2-Hexanone	0.142	0.122	-	14.1	20	71	0
Chlorobenzene	0.904	0.854	-	5.5	20	80	0
Ethylbenzene	1.578	1.539	-	2.5	20	79	0
1,1,1,2-Tetrachloroethane	0.315	0.309	-	1.9	20	83	0
p/m Xylene	0.614	0.588	-	4.2	20	79	0
o Xylene	0.596	0.562	-	5.7	20	78	0
Styrene	0.957	0.909	-	5	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Bromoform	0.312	0.311	-	0.3	20	84	0
Isopropylbenzene	3.228	2.917	-	9.6	20	78	0
4-Bromofluorobenzene	1.085	0.967	-	10.9	20	76	0
Bromobenzene	0.692	0.651	-	5.9	20	81	0
n-Propylbenzene	3.81	3.583	-	6	20	81	0
1,4-Dichlorobutane	0.842	0.824	-	2.1	20	86	0
1,1,2,2-Tetrachloroethane	0.56	0.529	-	5.5	20	83	0
4-Ethyltoluene	3.347	2.911	-	13	20	76	0
2-Chlorotoluene	2.218	2.084	-	6	20	82	0
1,3,5-Trimethylbenzene	2.697	2.49	-	7.7	20	81	0
1,2,3-Trichloropropane	0.423	0.42	-	0.7	20	85	0
trans-1,4-Dichloro-2-buten	0.159	0.156	-	1.9	20	84	0
4-Chlorotoluene	2.339	2.149	-	8.1	20	81	0
tert-Butylbenzene	2.305	2.109	-	8.5	20	79	0
1,2,4-Trimethylbenzene	2.653	2.451	-	7.6	20	81	0
sec-Butylbenzene	3.508	3.276	-	6.6	20	81	0
p-Isopropyltoluene	2.943	2.735	-	7.1	20	80	0
1,3-Dichlorobenzene	1.397	1.335	-	4.4	20	84	0
1,4-Dichlorobenzene	1.386	1.334	-	3.8	20	85	0

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284519-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.837	1.6	-	12.9	20	76	0
n-Butylbenzene	2.767	2.69	-	2.8	20	84	0
1,2-Dichlorobenzene	1.247	1.196	-	4.1	20	84	0
1,2,4,5-Tetramethylbenzene	2.774	2.344	-	15.5	20	74	0
1,2-Dibromo-3-chloropropan	0.076	0.073	-	3.9	20	82	0
1,3,5-Trichlorobenzene	1.032	0.949	-	8	20	81	0
Hexachlorobutadiene	0.472	0.446	-	5.5	20	83	0
1,2,4-Trichlorobenzene	0.835	0.827	-	1	20	87	0
Naphthalene	1.699	1.538	-	9.5	20	79	0
1,2,3-Trichlorobenzene	0.731	0.714	-	2.3	20	86	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284521-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	73	0
Dichlorodifluoromethane	0.158	0.223	-	-41.1*	20	101	0
Chloromethane	0.23	0.296	-	-28.7*	20	100	0
Vinyl chloride	0.21	0.217	-	-3.3	20	76	0
Bromomethane	0.135	0.121	-	10.4	20	75	0
Chloroethane	0.13	0.123	-	5.4	20	74	0
Trichlorofluoromethane	0.261	0.334	-	-28*	20	95	0
Ethyl ether	0.092	0.074	-	19.6	20	62	0
1,1-Dichloroethene	0.198	0.185	-	6.6	20	69	0
Carbon disulfide	0.66	0.596	-	9.7	20	69	0
Freon-113	0.194	0.196	-	-1	20	74	0
Acrolein	0.03	0.028*	-	6.7	20	70	0
Methylene chloride	0.219	0.211	-	3.7	20	75	0
Acetone	20	22.121	-	-10.6	20	73	0
trans-1,2-Dichloroethene	0.229	0.218	-	4.8	20	72	0
Methyl acetate	0.094	0.098*	-	-4.3	20	85	0
Methyl tert-butyl ether	0.503	0.494	-	1.8	20	72	0
tert-Butyl alcohol	0.017	0.016*	-	5.9	20	66	0
Diisopropyl ether	0.721	0.722	-	-0.1	20	74	0
1,1-Dichloroethane	0.421	0.447	-	-6.2	20	80	0
Halothane	0.188	0.17	-	9.6	20	69	0
Acrylonitrile	0.044	0.049*	-	-11.4	20	85	0
Ethyl tert-butyl ether	0.703	0.685	-	2.6	20	71	0
Vinyl acetate	0.414	0.428	-	-3.4	20	75	0
cis-1,2-Dichloroethene	0.247	0.245	-	0.8	20	75	0
2,2-Dichloropropane	0.376	0.387	-	-2.9	20	78	0
Bromochloromethane	0.098	0.101	-	-3.1	20	77	0
Cyclohexane	0.393	0.436	-	-10.9	20	82	0
Chloroform	0.417	0.435	-	-4.3	20	77	0
Ethyl acetate	0.153	0.154	-	-0.7	20	77	0
Carbon tetrachloride	0.334	0.366	-	-9.6	20	81	0
Tetrahydrofuran	20	23.627	-	-18.1	20	79	0
Dibromofluoromethane	0.245	0.245	-	0	20	72	0
1,1,1-Trichloroethane	0.382	0.408	-	-6.8	20	80	0
2-Butanone	20	22.25	-	-11.3	20	86	0
1,1-Dichloropropene	0.316	0.325	-	-2.8	20	77	0
Benzene	0.93	0.909	-	2.3	20	77	0
tert-Amyl methyl ether	0.589	0.536	-	9	20	67	0
1,2-Dichloroethane-d4	0.249	0.253	-	-1.6	20	74	0
1,2-Dichloroethane	0.268	0.302	-	-12.7	20	84	0
Methyl cyclohexane	0.395	0.399	-	-1	20	74	0
Trichloroethene	0.248	0.254	-	-2.4	20	80	0
Dibromomethane	0.112	0.122	-	-8.9	20	80	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284521-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.248	-	-9.3	20	82	0
2-Chloroethyl vinyl ether	0.109	0.108	-	0.9	20	71	0
Bromodichloromethane	0.312	0.325	-	-4.2	20	80	0
1,4-Dioxane	0.00149	0.00131*	-	12.1	20	66	0
cis-1,3-Dichloropropene	0.358	0.367	-	-2.5	20	78	0
Chlorobenzene-d5	1	1	-	0	20	79	0
Toluene-d8	1.374	1.246	-	9.3	20	72	0
Toluene	0.82	0.787	-	4	20	79	0
4-Methyl-2-pentanone	0.079	0.078*	-	1.3	20	76	0
Tetrachloroethene	0.328	0.323	-	1.5	20	80	0
trans-1,3-Dichloropropene	0.414	0.407	-	1.7	20	78	0
Ethyl methacrylate	0.316	0.266	-	15.8	20	69	0
1,1,2-Trichloroethane	0.186	0.185	-	0.5	20	80	0
Chlorodibromomethane	0.279	0.28	-	-0.4	20	81	0
1,3-Dichloropropane	0.389	0.391	-	-0.5	20	81	0
1,2-Dibromoethane	0.215	0.214	-	0.5	20	81	0
2-Hexanone	0.142	0.122	-	14.1	20	71	0
Chlorobenzene	0.904	0.854	-	5.5	20	80	0
Ethylbenzene	1.578	1.539	-	2.5	20	79	0
1,1,1,2-Tetrachloroethane	0.315	0.309	-	1.9	20	83	0
p/m Xylene	0.614	0.588	-	4.2	20	79	0
o Xylene	0.596	0.562	-	5.7	20	78	0
Styrene	0.957	0.909	-	5	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Bromoform	0.312	0.311	-	0.3	20	84	0
Isopropylbenzene	3.228	2.917	-	9.6	20	78	0
4-Bromofluorobenzene	1.085	0.967	-	10.9	20	76	0
Bromobenzene	0.692	0.651	-	5.9	20	81	0
n-Propylbenzene	3.81	3.583	-	6	20	81	0
1,4-Dichlorobutane	0.842	0.824	-	2.1	20	86	0
1,1,2,2-Tetrachloroethane	0.56	0.529	-	5.5	20	83	0
4-Ethyltoluene	3.347	2.911	-	13	20	76	0
2-Chlorotoluene	2.218	2.084	-	6	20	82	0
1,3,5-Trimethylbenzene	2.697	2.49	-	7.7	20	81	0
1,2,3-Trichloropropane	0.423	0.42	-	0.7	20	85	0
trans-1,4-Dichloro-2-buten	0.159	0.156	-	1.9	20	84	0
4-Chlorotoluene	2.339	2.149	-	8.1	20	81	0
tert-Butylbenzene	2.305	2.109	-	8.5	20	79	0
1,2,4-Trimethylbenzene	2.653	2.451	-	7.6	20	81	0
sec-Butylbenzene	3.508	3.276	-	6.6	20	81	0
p-Isopropyltoluene	2.943	2.735	-	7.1	20	80	0
1,3-Dichlorobenzene	1.397	1.335	-	4.4	20	84	0
1,4-Dichlorobenzene	1.386	1.334	-	3.8	20	85	0

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA117
 Lab File ID : V17190915A02
 Sample No : WG1284521-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 12:56
 Init. Calib. Date(s) : 07/26/19 07/26/19
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.837	1.6	-	12.9	20	76	0
n-Butylbenzene	2.767	2.69	-	2.8	20	84	0
1,2-Dichlorobenzene	1.247	1.196	-	4.1	20	84	0
1,2,4,5-Tetramethylbenzene	2.774	2.344	-	15.5	20	74	0
1,2-Dibromo-3-chloropropan	0.076	0.073	-	3.9	20	82	0
1,3,5-Trichlorobenzene	1.032	0.949	-	8	20	81	0
Hexachlorobutadiene	0.472	0.446	-	5.5	20	83	0
1,2,4-Trichlorobenzene	0.835	0.827	-	1	20	87	0
Naphthalene	1.699	1.538	-	9.5	20	79	0
1,2,3-Trichlorobenzene	0.731	0.714	-	2.3	20	86	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284596-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	72	-.01
Dichlorodifluoromethane	0.268	0.296	-	-10.4	20	68	0
Chloromethane	0.275	0.353	-	-28.4*	20	81	0
Vinyl chloride	0.312	0.325	-	-4.2	20	64	0
Bromomethane	0.233	0.224	-	3.9	20	65	0
Chloroethane	0.235	0.225	-	4.3	20	62	0
Trichlorofluoromethane	0.429	0.441	-	-2.8	20	62	0
Ethyl ether	0.143	0.127	-	11.2	20	58	0
1,1-Dichloroethene	0.214	0.21	-	1.9	20	61	0
Carbon disulfide	0.725	0.693	-	4.4	20	63	0
Freon-113	0.216	0.215	-	0.5	20	61	0
Acrolein	0.05	0.053	-	-6	20	71	0
Methylene chloride	0.28	0.249	-	11.1	20	62	0
Acetone	20	24.264	-	-21.3*	20	78	-.01
trans-1,2-Dichloroethene	0.245	0.24	-	2	20	62	0
Methyl acetate	0.187	0.213	-	-13.9	20	74	-.01
Methyl tert-butyl ether	0.725	0.65	-	10.3	20	57	-.01
tert-Butyl alcohol	0.038	0.032*	-	15.8	20	54	-.01
Diisopropyl ether	0.748	0.879	-	-17.5	20	75	-.01
1,1-Dichloroethane	0.436	0.455	-	-4.4	20	66	-.01
Halothane	0.182	0.175	-	3.8	20	60	-.01
Acrylonitrile	0.093	0.097	-	-4.3	20	66	-.01
Ethyl tert-butyl ether	0.763	0.738	-	3.3	20	62	-.02
Vinyl acetate	0.662	0.756	-	-14.2	20	74	-.01
cis-1,2-Dichloroethene	0.275	0.267	-	2.9	20	62	-.01
2,2-Dichloropropane	0.366	0.368	-	-0.5	20	63	-.01
Bromochloromethane	0.134	0.13	-	3	20	61	-.01
Cyclohexane	0.39	0.411	-	-5.4	20	66	0
Chloroform	0.43	0.434	-	-0.9	20	64	-.01
Ethyl acetate	0.3	0.325	-	-8.3	20	71	-.01
Carbon tetrachloride	0.331	0.337	-	-1.8	20	64	-.01
Tetrahydrofuran	0.106	0.117	-	-10.4	20	72	-.02
Dibromofluoromethane	0.262	0.255	-	2.7	20	70	0
1,1,1-Trichloroethane	0.365	0.384	-	-5.2	20	64	-.01
2-Butanone	0.139	0.145	-	-4.3	20	74	-.02
1,1-Dichloropropene	0.318	0.32	-	-0.6	20	61	0
Benzene	0.959	0.945	-	1.5	20	61	-.01
tert-Amyl methyl ether	0.734	0.633	-	13.8	20	55	-.02
1,2-Dichloroethane-d4	0.29	0.294	-	-1.4	20	76	-.01
1,2-Dichloroethane	0.342	0.343	-	-0.3	20	64	-.01
Methyl cyclohexane	0.415	0.383	-	7.7	20	58	-.01
Trichloroethene	0.249	0.249	-	0	20	62	-.01
Dibromomethane	0.164	0.155	-	5.5	20	61	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284596-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.254	-	0	20	63	0
2-Chloroethyl vinyl ether	0.185	0.171	-	7.6	20	59	-0.01
Bromodichloromethane	0.327	0.331	-	-1.2	20	64	-0.02
1,4-Dioxane	0.00343	0.003*	-	12.5	20	58	-0.02
cis-1,3-Dichloropropene	0.404	0.396	-	2	20	61	0
Chlorobenzene-d5	1	1	-	0	20	71	-0.02
Toluene-d8	1.211	1.215	-	-0.3	20	71	-0.02
Toluene	0.75	0.74	-	1.3	20	62	-0.01
4-Methyl-2-pentanone	0.137	0.131	-	4.4	20	61	-0.02
Tetrachloroethene	0.306	0.3	-	2	20	59	-0.02
trans-1,3-Dichloropropene	0.447	0.441	-	1.3	20	60	-0.01
Ethyl methacrylate	0.415	0.344	-	17.1	20	52	-0.02
1,1,2-Trichloroethane	0.237	0.221	-	6.8	20	58	-0.01
Chlorodibromomethane	0.311	0.304	-	2.3	20	60	-0.02
1,3-Dichloropropane	0.475	0.447	-	5.9	20	59	-0.02
1,2-Dibromoethane	0.286	0.271	-	5.2	20	58	-0.02
2-Hexanone	0.245	0.261	-	-6.5	20	69	-0.02
Chlorobenzene	0.845	0.839	-	0.7	20	61	-0.01
Ethylbenzene	1.401	1.407	-	-0.4	20	62	-0.01
1,1,1,2-Tetrachloroethane	0.297	0.3	-	-1	20	61	-0.02
p/m Xylene	0.545	0.552	-	-1.3	20	62	0
o Xylene	0.539	0.529	-	1.9	20	61	-0.02
Styrene	0.876	0.878	-	-0.2	20	61	-0.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-0.01
Bromoform	0.424	0.367	-	13.4	20	60	-0.01
Isopropylbenzene	2.578	2.613	-	-1.4	20	62	-0.02
4-Bromofluorobenzene	0.913	0.884	-	3.2	20	69	-0.01
Bromobenzene	0.679	0.626	-	7.8	20	58	-0.02
n-Propylbenzene	3.032	3.162	-	-4.3	20	63	-0.01
1,4-Dichlorobutane	0.91	0.941	-	-3.4	20	67	-0.01
1,1,2,2-Tetrachloroethane	0.726	0.695	-	4.3	20	58	-0.01
4-Ethyltoluene	2.552	2.595	-	-1.7	20	62	-0.01
2-Chlorotoluene	2.106	2.154	-	-2.3	20	64	-0.01
1,3,5-Trimethylbenzene	2.162	2.195	-	-1.5	20	63	-0.02
1,2,3-Trichloropropane	0.612	0.571	-	6.7	20	59	-0.02
trans-1,4-Dichloro-2-buten	0.212	0.235	-	-10.8	20	70	0
4-Chlorotoluene	1.897	1.962	-	-3.4	20	65	-0.01
tert-Butylbenzene	1.876	1.87	-	0.3	20	61	-0.01
1,2,4-Trimethylbenzene	2.172	2.244	-	-3.3	20	64	-0.02
sec-Butylbenzene	2.799	2.868	-	-2.5	20	62	-0.01
p-Isopropyltoluene	2.388	2.472	-	-3.5	20	63	-0.01
1,3-Dichlorobenzene	1.306	1.296	-	0.8	20	62	-0.01
1,4-Dichlorobenzene	1.32	1.316	-	0.3	20	63	-0.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Instrument ID : VOA123
Lab File ID : V23190915A01
Sample No : WG1284596-2
Channel :

Lab Number : L1940717
Project Number : 17001426
Calibration Date : 09/15/19 16:24
Init. Calib. Date(s) : 06/21/19 06/21/19
Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.467	-	-0.1	20	62	-.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.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284598-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	72	-.01
Dichlorodifluoromethane	0.268	0.296	-	-10.4	20	68	0
Chloromethane	0.275	0.353	-	-28.4*	20	81	0
Vinyl chloride	0.312	0.325	-	-4.2	20	64	0
Bromomethane	0.233	0.224	-	3.9	20	65	0
Chloroethane	0.235	0.225	-	4.3	20	62	0
Trichlorofluoromethane	0.429	0.441	-	-2.8	20	62	0
Ethyl ether	0.143	0.127	-	11.2	20	58	0
1,1-Dichloroethene	0.214	0.21	-	1.9	20	61	0
Carbon disulfide	0.725	0.693	-	4.4	20	63	0
Freon-113	0.216	0.215	-	0.5	20	61	0
Acrolein	0.05	0.053	-	-6	20	71	0
Methylene chloride	0.28	0.249	-	11.1	20	62	0
Acetone	20	24.264	-	-21.3*	20	78	-.01
trans-1,2-Dichloroethene	0.245	0.24	-	2	20	62	0
Methyl acetate	0.187	0.213	-	-13.9	20	74	-.01
Methyl tert-butyl ether	0.725	0.65	-	10.3	20	57	-.01
tert-Butyl alcohol	0.038	0.032*	-	15.8	20	54	-.01
Diisopropyl ether	0.748	0.879	-	-17.5	20	75	-.01
1,1-Dichloroethane	0.436	0.455	-	-4.4	20	66	-.01
Halothane	0.182	0.175	-	3.8	20	60	-.01
Acrylonitrile	0.093	0.097	-	-4.3	20	66	-.01
Ethyl tert-butyl ether	0.763	0.738	-	3.3	20	62	-.02
Vinyl acetate	0.662	0.756	-	-14.2	20	74	-.01
cis-1,2-Dichloroethene	0.275	0.267	-	2.9	20	62	-.01
2,2-Dichloropropane	0.366	0.368	-	-0.5	20	63	-.01
Bromochloromethane	0.134	0.13	-	3	20	61	-.01
Cyclohexane	0.39	0.411	-	-5.4	20	66	0
Chloroform	0.43	0.434	-	-0.9	20	64	-.01
Ethyl acetate	0.3	0.325	-	-8.3	20	71	-.01
Carbon tetrachloride	0.331	0.337	-	-1.8	20	64	-.01
Tetrahydrofuran	0.106	0.117	-	-10.4	20	72	-.02
Dibromofluoromethane	0.262	0.255	-	2.7	20	70	0
1,1,1-Trichloroethane	0.365	0.384	-	-5.2	20	64	-.01
2-Butanone	0.139	0.145	-	-4.3	20	74	-.02
1,1-Dichloropropene	0.318	0.32	-	-0.6	20	61	0
Benzene	0.959	0.945	-	1.5	20	61	-.01
tert-Amyl methyl ether	0.734	0.633	-	13.8	20	55	-.02
1,2-Dichloroethane-d4	0.29	0.294	-	-1.4	20	76	-.01
1,2-Dichloroethane	0.342	0.343	-	-0.3	20	64	-.01
Methyl cyclohexane	0.415	0.383	-	7.7	20	58	-.01
Trichloroethene	0.249	0.249	-	0	20	62	-.01
Dibromomethane	0.164	0.155	-	5.5	20	61	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190915A01
 Sample No : WG1284598-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/15/19 16:24
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.254	-	0	20	63	0
2-Chloroethyl vinyl ether	0.185	0.171	-	7.6	20	59	-0.01
Bromodichloromethane	0.327	0.331	-	-1.2	20	64	-0.02
1,4-Dioxane	0.00343	0.003*	-	12.5	20	58	-0.02
cis-1,3-Dichloropropene	0.404	0.396	-	2	20	61	0
Chlorobenzene-d5	1	1	-	0	20	71	-0.02
Toluene-d8	1.211	1.215	-	-0.3	20	71	-0.02
Toluene	0.75	0.74	-	1.3	20	62	-0.01
4-Methyl-2-pentanone	0.137	0.131	-	4.4	20	61	-0.02
Tetrachloroethene	0.306	0.3	-	2	20	59	-0.02
trans-1,3-Dichloropropene	0.447	0.441	-	1.3	20	60	-0.01
Ethyl methacrylate	0.415	0.344	-	17.1	20	52	-0.02
1,1,2-Trichloroethane	0.237	0.221	-	6.8	20	58	-0.01
Chlorodibromomethane	0.311	0.304	-	2.3	20	60	-0.02
1,3-Dichloropropane	0.475	0.447	-	5.9	20	59	-0.02
1,2-Dibromoethane	0.286	0.271	-	5.2	20	58	-0.02
2-Hexanone	0.245	0.261	-	-6.5	20	69	-0.02
Chlorobenzene	0.845	0.839	-	0.7	20	61	-0.01
Ethylbenzene	1.401	1.407	-	-0.4	20	62	-0.01
1,1,1,2-Tetrachloroethane	0.297	0.3	-	-1	20	61	-0.02
p/m Xylene	0.545	0.552	-	-1.3	20	62	0
o Xylene	0.539	0.529	-	1.9	20	61	-0.02
Styrene	0.876	0.878	-	-0.2	20	61	-0.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-0.01
Bromoform	0.424	0.367	-	13.4	20	60	-0.01
Isopropylbenzene	2.578	2.613	-	-1.4	20	62	-0.02
4-Bromofluorobenzene	0.913	0.884	-	3.2	20	69	-0.01
Bromobenzene	0.679	0.626	-	7.8	20	58	-0.02
n-Propylbenzene	3.032	3.162	-	-4.3	20	63	-0.01
1,4-Dichlorobutane	0.91	0.941	-	-3.4	20	67	-0.01
1,1,2,2-Tetrachloroethane	0.726	0.695	-	4.3	20	58	-0.01
4-Ethyltoluene	2.552	2.595	-	-1.7	20	62	-0.01
2-Chlorotoluene	2.106	2.154	-	-2.3	20	64	-0.01
1,3,5-Trimethylbenzene	2.162	2.195	-	-1.5	20	63	-0.02
1,2,3-Trichloropropane	0.612	0.571	-	6.7	20	59	-0.02
trans-1,4-Dichloro-2-buten	0.212	0.235	-	-10.8	20	70	0
4-Chlorotoluene	1.897	1.962	-	-3.4	20	65	-0.01
tert-Butylbenzene	1.876	1.87	-	0.3	20	61	-0.01
1,2,4-Trimethylbenzene	2.172	2.244	-	-3.3	20	64	-0.02
sec-Butylbenzene	2.799	2.868	-	-2.5	20	62	-0.01
p-Isopropyltoluene	2.388	2.472	-	-3.5	20	63	-0.01
1,3-Dichlorobenzene	1.306	1.296	-	0.8	20	62	-0.01
1,4-Dichlorobenzene	1.32	1.316	-	0.3	20	63	-0.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Instrument ID : VOA123
Lab File ID : V23190915A01
Sample No : WG1284598-2
Channel :

Lab Number : L1940717
Project Number : 17001426
Calibration Date : 09/15/19 16:24
Init. Calib. Date(s) : 06/21/19 06/21/19
Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.467	-	-0.1	20	62	-.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.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284781-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	71	-.01
Dichlorodifluoromethane	0.268	0.224	-	16.4	20	51	0
Chloromethane	0.275	0.31	-	-12.7	20	70	0
Vinyl chloride	0.312	0.301	-	3.5	20	59	0
Bromomethane	0.233	0.217	-	6.9	20	63	0
Chloroethane	0.235	0.219	-	6.8	20	60	0
Trichlorofluoromethane	0.429	0.453	-	-5.6	20	63	0
Ethyl ether	0.143	0.132	-	7.7	20	59	0
1,1-Dichloroethene	0.214	0.214	-	0	20	61	0
Carbon disulfide	0.725	0.681	-	6.1	20	61	0
Freon-113	0.216	0.22	-	-1.9	20	62	0
Acrolein	0.05	0.054	-	-8	20	73	0
Methylene chloride	0.28	0.252	-	10	20	62	0
Acetone	20	24.255	-	-21.3*	20	77	-.01
trans-1,2-Dichloroethene	0.245	0.247	-	-0.8	20	63	0
Methyl acetate	0.187	0.229	-	-22.5*	20	78	-.02
Methyl tert-butyl ether	0.725	0.668	-	7.9	20	58	-.01
tert-Butyl alcohol	0.038	0.035*	-	7.9	20	58	-.01
Diisopropyl ether	0.748	0.909	-	-21.5*	20	76	-.01
1,1-Dichloroethane	0.436	0.466	-	-6.9	20	66	-.01
Halothane	0.182	0.186	-	-2.2	20	63	-.01
Acrylonitrile	0.093	0.101	-	-8.6	20	68	-.01
Ethyl tert-butyl ether	0.763	0.766	-	-0.4	20	63	-.02
Vinyl acetate	0.662	0.779	-	-17.7	20	75	-.01
cis-1,2-Dichloroethene	0.275	0.27	-	1.8	20	62	-.01
2,2-Dichloropropane	0.366	0.379	-	-3.6	20	64	-.01
Bromochloromethane	0.134	0.133	-	0.7	20	62	-.01
Cyclohexane	0.39	0.428	-	-9.7	20	67	0
Chloroform	0.43	0.452	-	-5.1	20	66	-.01
Ethyl acetate	0.3	0.335	-	-11.7	20	72	-.02
Carbon tetrachloride	0.331	0.355	-	-7.3	20	66	0
Tetrahydrofuran	0.106	0.123	-	-16	20	74	-.02
Dibromofluoromethane	0.262	0.254	-	3.1	20	69	-.01
1,1,1-Trichloroethane	0.365	0.398	-	-9	20	65	-.01
2-Butanone	0.139	0.155	-	-11.5	20	78	-.02
1,1-Dichloropropene	0.318	0.332	-	-4.4	20	63	-.01
Benzene	0.959	0.971	-	-1.3	20	62	-.01
tert-Amyl methyl ether	0.734	0.657	-	10.5	20	56	-.02
1,2-Dichloroethane-d4	0.29	0.298	-	-2.8	20	75	-.02
1,2-Dichloroethane	0.342	0.359	-	-5	20	67	-.02
Methyl cyclohexane	0.415	0.391	-	5.8	20	58	-.01
Trichloroethene	0.249	0.258	-	-3.6	20	63	-.01
Dibromomethane	0.164	0.162	-	1.2	20	63	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284781-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.264	-	-3.9	20	65	-.02
2-Chloroethyl vinyl ether	0.185	0.177	-	4.3	20	60	-.01
Bromodichloromethane	0.327	0.346	-	-5.8	20	66	-.02
1,4-Dioxane	0.00343	0.00304*	-	11.4	20	58	-.02
cis-1,3-Dichloropropene	0.404	0.411	-	-1.7	20	62	0
Chlorobenzene-d5	1	1	-	0	20	70	-.02
Toluene-d8	1.211	1.205	-	0.5	20	70	-.02
Toluene	0.75	0.756	-	-0.8	20	62	-.02
4-Methyl-2-pentanone	0.137	0.133	-	2.9	20	61	-.02
Tetrachloroethene	0.306	0.314	-	-2.6	20	60	-.02
trans-1,3-Dichloropropene	0.447	0.46	-	-2.9	20	62	-.02
Ethyl methacrylate	0.415	0.365	-	12	20	54	-.02
1,1,2-Trichloroethane	0.237	0.233	-	1.7	20	61	-.01
Chlorodibromomethane	0.311	0.324	-	-4.2	20	64	-.02
1,3-Dichloropropane	0.475	0.47	-	1.1	20	61	-.01
1,2-Dibromoethane	0.286	0.286	-	0	20	61	-.02
2-Hexanone	0.245	0.269	-	-9.8	20	70	-.02
Chlorobenzene	0.845	0.869	-	-2.8	20	63	-.02
Ethylbenzene	1.401	1.469	-	-4.9	20	64	-.02
1,1,1,2-Tetrachloroethane	0.297	0.315	-	-6.1	20	63	-.02
p/m Xylene	0.545	0.575	-	-5.5	20	64	-.02
o Xylene	0.539	0.552	-	-2.4	20	62	-.02
Styrene	0.876	0.911	-	-4	20	62	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-.01
Bromoform	0.424	0.386	-	9	20	63	-.02
Isopropylbenzene	2.578	2.686	-	-4.2	20	64	-.02
4-Bromofluorobenzene	0.913	0.883	-	3.3	20	69	-.01
Bromobenzene	0.679	0.647	-	4.7	20	61	-.02
n-Propylbenzene	3.032	3.237	-	-6.8	20	65	-.01
1,4-Dichlorobutane	0.91	0.983	-	-8	20	70	-.01
1,1,2,2-Tetrachloroethane	0.726	0.73	-	-0.6	20	61	-.01
4-Ethyltoluene	2.552	2.632	-	-3.1	20	63	-.01
2-Chlorotoluene	2.106	2.196	-	-4.3	20	65	-.01
1,3,5-Trimethylbenzene	2.162	2.259	-	-4.5	20	65	-.02
1,2,3-Trichloropropane	0.612	0.595	-	2.8	20	62	-.02
trans-1,4-Dichloro-2-buten	0.212	0.248	-	-17	20	74	-.02
4-Chlorotoluene	1.897	2.008	-	-5.9	20	66	-.02
tert-Butylbenzene	1.876	1.917	-	-2.2	20	62	-.01
1,2,4-Trimethylbenzene	2.172	2.277	-	-4.8	20	65	-.02
sec-Butylbenzene	2.799	2.943	-	-5.1	20	64	-.01
p-Isopropyltoluene	2.388	2.502	-	-4.8	20	64	-.02
1,3-Dichlorobenzene	1.306	1.339	-	-2.5	20	65	-.01
1,4-Dichlorobenzene	1.32	1.352	-	-2.4	20	65	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284781-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.468	-	-0.1	20	62	-0.01
n-Butylbenzene	2.231	2.436	-	-9.2	20	67	-0.01
1,2-Dichlorobenzene	1.255	1.253	-	0.2	20	63	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.304	-	0.9	20	62	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.119	-	12.5	20	58	-0.01
1,3,5-Trichlorobenzene	0.913	0.902	-	1.2	20	62	-0.01
Hexachlorobutadiene	0.428	0.378	-	11.7	20	56	-0.01
1,2,4-Trichlorobenzene	0.862	0.858	-	0.5	20	63	-0.01
Naphthalene	2.486	2.385	-	4.1	20	60	-0.01
1,2,3-Trichlorobenzene	0.842	0.82	-	2.6	20	62	-0.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284780-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	71	-.01
Dichlorodifluoromethane	0.268	0.224	-	16.4	20	51	0
Chloromethane	0.275	0.31	-	-12.7	20	70	0
Vinyl chloride	0.312	0.301	-	3.5	20	59	0
Bromomethane	0.233	0.217	-	6.9	20	63	0
Chloroethane	0.235	0.219	-	6.8	20	60	0
Trichlorofluoromethane	0.429	0.453	-	-5.6	20	63	0
Ethyl ether	0.143	0.132	-	7.7	20	59	0
1,1-Dichloroethene	0.214	0.214	-	0	20	61	0
Carbon disulfide	0.725	0.681	-	6.1	20	61	0
Freon-113	0.216	0.22	-	-1.9	20	62	0
Acrolein	0.05	0.054	-	-8	20	73	0
Methylene chloride	0.28	0.252	-	10	20	62	0
Acetone	20	24.255	-	-21.3*	20	77	-.01
trans-1,2-Dichloroethene	0.245	0.247	-	-0.8	20	63	0
Methyl acetate	0.187	0.229	-	-22.5*	20	78	-.02
Methyl tert-butyl ether	0.725	0.668	-	7.9	20	58	-.01
tert-Butyl alcohol	0.038	0.035*	-	7.9	20	58	-.01
Diisopropyl ether	0.748	0.909	-	-21.5*	20	76	-.01
1,1-Dichloroethane	0.436	0.466	-	-6.9	20	66	-.01
Halothane	0.182	0.186	-	-2.2	20	63	-.01
Acrylonitrile	0.093	0.101	-	-8.6	20	68	-.01
Ethyl tert-butyl ether	0.763	0.766	-	-0.4	20	63	-.02
Vinyl acetate	0.662	0.779	-	-17.7	20	75	-.01
cis-1,2-Dichloroethene	0.275	0.27	-	1.8	20	62	-.01
2,2-Dichloropropane	0.366	0.379	-	-3.6	20	64	-.01
Bromochloromethane	0.134	0.133	-	0.7	20	62	-.01
Cyclohexane	0.39	0.428	-	-9.7	20	67	0
Chloroform	0.43	0.452	-	-5.1	20	66	-.01
Ethyl acetate	0.3	0.335	-	-11.7	20	72	-.02
Carbon tetrachloride	0.331	0.355	-	-7.3	20	66	0
Tetrahydrofuran	0.106	0.123	-	-16	20	74	-.02
Dibromofluoromethane	0.262	0.254	-	3.1	20	69	-.01
1,1,1-Trichloroethane	0.365	0.398	-	-9	20	65	-.01
2-Butanone	0.139	0.155	-	-11.5	20	78	-.02
1,1-Dichloropropene	0.318	0.332	-	-4.4	20	63	-.01
Benzene	0.959	0.971	-	-1.3	20	62	-.01
tert-Amyl methyl ether	0.734	0.657	-	10.5	20	56	-.02
1,2-Dichloroethane-d4	0.29	0.298	-	-2.8	20	75	-.02
1,2-Dichloroethane	0.342	0.359	-	-5	20	67	-.02
Methyl cyclohexane	0.415	0.391	-	5.8	20	58	-.01
Trichloroethene	0.249	0.258	-	-3.6	20	63	-.01
Dibromomethane	0.164	0.162	-	1.2	20	63	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284780-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.264	-	-3.9	20	65	-.02
2-Chloroethyl vinyl ether	0.185	0.177	-	4.3	20	60	-.01
Bromodichloromethane	0.327	0.346	-	-5.8	20	66	-.02
1,4-Dioxane	0.00343	0.00304*	-	11.4	20	58	-.02
cis-1,3-Dichloropropene	0.404	0.411	-	-1.7	20	62	0
Chlorobenzene-d5	1	1	-	0	20	70	-.02
Toluene-d8	1.211	1.205	-	0.5	20	70	-.02
Toluene	0.75	0.756	-	-0.8	20	62	-.02
4-Methyl-2-pentanone	0.137	0.133	-	2.9	20	61	-.02
Tetrachloroethene	0.306	0.314	-	-2.6	20	60	-.02
trans-1,3-Dichloropropene	0.447	0.46	-	-2.9	20	62	-.02
Ethyl methacrylate	0.415	0.365	-	12	20	54	-.02
1,1,2-Trichloroethane	0.237	0.233	-	1.7	20	61	-.01
Chlorodibromomethane	0.311	0.324	-	-4.2	20	64	-.02
1,3-Dichloropropane	0.475	0.47	-	1.1	20	61	-.01
1,2-Dibromoethane	0.286	0.286	-	0	20	61	-.02
2-Hexanone	0.245	0.269	-	-9.8	20	70	-.02
Chlorobenzene	0.845	0.869	-	-2.8	20	63	-.02
Ethylbenzene	1.401	1.469	-	-4.9	20	64	-.02
1,1,1,2-Tetrachloroethane	0.297	0.315	-	-6.1	20	63	-.02
p/m Xylene	0.545	0.575	-	-5.5	20	64	-.02
o Xylene	0.539	0.552	-	-2.4	20	62	-.02
Styrene	0.876	0.911	-	-4	20	62	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-.01
Bromoform	0.424	0.386	-	9	20	63	-.02
Isopropylbenzene	2.578	2.686	-	-4.2	20	64	-.02
4-Bromofluorobenzene	0.913	0.883	-	3.3	20	69	-.01
Bromobenzene	0.679	0.647	-	4.7	20	61	-.02
n-Propylbenzene	3.032	3.237	-	-6.8	20	65	-.01
1,4-Dichlorobutane	0.91	0.983	-	-8	20	70	-.01
1,1,2,2-Tetrachloroethane	0.726	0.73	-	-0.6	20	61	-.01
4-Ethyltoluene	2.552	2.632	-	-3.1	20	63	-.01
2-Chlorotoluene	2.106	2.196	-	-4.3	20	65	-.01
1,3,5-Trimethylbenzene	2.162	2.259	-	-4.5	20	65	-.02
1,2,3-Trichloropropane	0.612	0.595	-	2.8	20	62	-.02
trans-1,4-Dichloro-2-buten	0.212	0.248	-	-17	20	74	-.02
4-Chlorotoluene	1.897	2.008	-	-5.9	20	66	-.02
tert-Butylbenzene	1.876	1.917	-	-2.2	20	62	-.01
1,2,4-Trimethylbenzene	2.172	2.277	-	-4.8	20	65	-.02
sec-Butylbenzene	2.799	2.943	-	-5.1	20	64	-.01
p-Isopropyltoluene	2.388	2.502	-	-4.8	20	64	-.02
1,3-Dichlorobenzene	1.306	1.339	-	-2.5	20	65	-.01
1,4-Dichlorobenzene	1.32	1.352	-	-2.4	20	65	-.01

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916A01
 Sample No : WG1284780-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 06:56
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.468	-	-0.1	20	62	-.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.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916N01
 Sample No : WG1284929-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 19:09
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	65	-.01
Dichlorodifluoromethane	0.268	0.319	-	-19	20	65	0
Chloromethane	0.275	0.377	-	-37.1*	20	77	0
Vinyl chloride	0.312	0.361	-	-15.7	20	64	0
Bromomethane	0.233	0.242	-	-3.9	20	63	0
Chloroethane	0.235	0.242	-	-3	20	60	0
Trichlorofluoromethane	0.429	0.48	-	-11.9	20	61	0
Ethyl ether	0.143	0.129	-	9.8	20	52	0
1,1-Dichloroethene	0.214	0.228	-	-6.5	20	59	0
Carbon disulfide	0.725	0.745	-	-2.8	20	60	0
Freon-113	0.216	0.231	-	-6.9	20	59	0
Acrolein	0.05	0.057	-	-14	20	69	0
Methylene chloride	0.28	0.259	-	7.5	20	57	0
Acetone	20	26.629	-	-33.1*	20	76	-.02
trans-1,2-Dichloroethene	0.245	0.259	-	-5.7	20	59	0
Methyl acetate	0.187	0.226	-	-20.9*	20	70	-.01
Methyl tert-butyl ether	0.725	0.638	-	12	20	50	-.01
tert-Butyl alcohol	0.038	0.034*	-	10.5	20	51	-.02
Diisopropyl ether	0.748	0.896	-	-19.8	20	68	-.01
1,1-Dichloroethane	0.436	0.481	-	-10.3	20	62	0
Halothane	0.182	0.185	-	-1.6	20	56	-.01
Acrylonitrile	0.093	0.101	-	-8.6	20	62	-.01
Ethyl tert-butyl ether	0.763	0.739	-	3.1	20	55	-.01
Vinyl acetate	0.662	0.76	-	-14.8	20	66	-.01
cis-1,2-Dichloroethene	0.275	0.277	-	-0.7	20	57	-.01
2,2-Dichloropropane	0.366	0.389	-	-6.3	20	60	0
Bromochloromethane	0.134	0.129	-	3.7	20	54	-.01
Cyclohexane	0.39	0.448	-	-14.9	20	64	0
Chloroform	0.43	0.46	-	-7	20	60	-.01
Ethyl acetate	0.3	0.33	-	-10	20	64	-.02
Carbon tetrachloride	0.331	0.357	-	-7.9	20	60	-.01
Tetrahydrofuran	0.106	0.12	-	-13.2	20	66	-.02
Dibromofluoromethane	0.262	0.253	-	3.4	20	62	0
1,1,1-Trichloroethane	0.365	0.405	-	-11	20	60	-.01
2-Butanone	0.139	0.157	-	-12.9	20	71	-.02
1,1-Dichloropropene	0.318	0.347	-	-9.1	20	59	-.01
Benzene	0.959	1	-	-4.3	20	58	-.01
tert-Amyl methyl ether	0.734	0.621	-	15.4	20	48	-.02
1,2-Dichloroethane-d4	0.29	0.286	-	1.4	20	66	-.01
1,2-Dichloroethane	0.342	0.352	-	-2.9	20	59	-.01
Methyl cyclohexane	0.415	0.405	-	2.4	20	54	-.01
Trichloroethene	0.249	0.263	-	-5.6	20	58	-.01
Dibromomethane	0.164	0.156	-	4.9	20	55	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190916N01
 Sample No : WG1284929-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/16/19 19:09
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.258	-	-1.6	20	57	0
2-Chloroethyl vinyl ether	0.185	0.172	-	7	20	53	-.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
1,1,1,2-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.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
Project Name : TOMBARELLO SITE
Instrument ID : VOA123
Lab File ID : V23190916N01
Sample No : WG1284929-2
Channel :

Lab Number : L1940717
Project Number : 17001426
Calibration Date : 09/16/19 19:09
Init. Calib. Date(s) : 06/21/19 06/21/19
Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.542	-	-5.2	20	58	-.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.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190917A01
 Sample No : WG1285102-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/17/19 07:26
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	82	-.01
Dichlorodifluoromethane	0.268	0.274	-	-2.2	20	71	0
Chloromethane	0.275	0.325	-	-18.2	20	85	0
Vinyl chloride	0.312	0.308	-	1.3	20	69	0
Bromomethane	0.233	0.209	-	10.3	20	69	0
Chloroethane	0.235	0.215	-	8.5	20	67	0
Trichlorofluoromethane	0.429	0.424	-	1.2	20	68	0
Ethyl ether	0.143	0.125	-	12.6	20	64	0
1,1-Dichloroethene	0.214	0.206	-	3.7	20	68	0
Carbon disulfide	0.725	0.674	-	7	20	69	0
Freon-113	0.216	0.207	-	4.2	20	66	0
Acrolein	0.05	0.051	-	-2	20	78	0
Methylene chloride	0.28	0.26	-	7.1	20	73	0
Acetone	20	22.467	-	-12.3	20	82	-.01
trans-1,2-Dichloroethene	0.245	0.236	-	3.7	20	69	0
Methyl acetate	0.187	0.21	-	-12.3	20	82	-.01
Methyl tert-butyl ether	0.725	0.625	-	13.8	20	62	-.01
tert-Butyl alcohol	0.038	0.033*	-	13.2	20	64	-.02
Diisopropyl ether	0.748	0.823	-	-10	20	79	-.01
1,1-Dichloroethane	0.436	0.43	-	1.4	20	70	-.01
Halothane	0.182	0.172	-	5.5	20	66	-.01
Acrylonitrile	0.093	0.096	-	-3.2	20	74	-.01
Ethyl tert-butyl ether	0.763	0.708	-	7.2	20	67	-.02
Vinyl acetate	0.662	0.71	-	-7.3	20	78	-.01
cis-1,2-Dichloroethene	0.275	0.255	-	7.3	20	67	-.01
2,2-Dichloropropane	0.366	0.354	-	3.3	20	69	-.01
Bromochloromethane	0.134	0.127	-	5.2	20	68	-.01
Cyclohexane	0.39	0.385	-	1.3	20	70	0
Chloroform	0.43	0.415	-	3.5	20	69	-.01
Ethyl acetate	0.3	0.303	-	-1	20	75	-.02
Carbon tetrachloride	0.331	0.326	-	1.5	20	70	0
Tetrahydrofuran	0.106	0.111	-	-4.7	20	77	-.02
Dibromofluoromethane	0.262	0.251	-	4.2	20	78	0
1,1,1-Trichloroethane	0.365	0.371	-	-1.6	20	70	-.01
2-Butanone	0.139	0.138	-	0.7	20	79	-.02
1,1-Dichloropropene	0.318	0.312	-	1.9	20	67	-.01
Benzene	0.959	0.906	-	5.5	20	67	-.01
tert-Amyl methyl ether	0.734	0.608	-	17.2	20	60	-.02
1,2-Dichloroethane-d4	0.29	0.283	-	2.4	20	82	-.01
1,2-Dichloroethane	0.342	0.331	-	3.2	20	70	-.01
Methyl cyclohexane	0.415	0.355	-	14.5	20	60	-.02
Trichloroethene	0.249	0.24	-	3.6	20	67	-.01
Dibromomethane	0.164	0.152	-	7.3	20	67	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190917A01
 Sample No : WG1285102-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/17/19 07:26
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.242	-	4.7	20	68	0
2-Chloroethyl vinyl ether	0.185	0.167	-	9.7	20	65	-.01
Bromodichloromethane	0.327	0.317	-	3.1	20	69	-.02
1,4-Dioxane	0.00343	0.00325*	-	5.2	20	72	-.02
cis-1,3-Dichloropropene	0.404	0.38	-	5.9	20	66	0
Chlorobenzene-d5	1	1	-	0	20	83	-.02
Toluene-d8	1.211	1.193	-	1.5	20	81	-.02
Toluene	0.75	0.691	-	7.9	20	67	-.01
4-Methyl-2-pentanone	0.137	0.122	-	10.9	20	65	-.02
Tetrachloroethene	0.306	0.296	-	3.3	20	67	-.02
trans-1,3-Dichloropropene	0.447	0.414	-	7.4	20	66	-.01
Ethyl methacrylate	0.415	0.33	-	20.5*	20	58	-.02
1,1,2-Trichloroethane	0.237	0.209	-	11.8	20	64	-.01
Chlorodibromomethane	0.311	0.293	-	5.8	20	67	-.02
1,3-Dichloropropane	0.475	0.423	-	10.9	20	64	-.01
1,2-Dibromoethane	0.286	0.263	-	8	20	65	-.02
2-Hexanone	0.245	0.244	-	0.4	20	75	-.02
Chlorobenzene	0.845	0.798	-	5.6	20	68	-.02
Ethylbenzene	1.401	1.338	-	4.5	20	68	-.02
1,1,1,2-Tetrachloroethane	0.297	0.288	-	3	20	68	-.02
p/m Xylene	0.545	0.527	-	3.3	20	69	0
o Xylene	0.539	0.508	-	5.8	20	67	-.02
Styrene	0.876	0.829	-	5.4	20	67	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	86	-.01
Bromoform	0.424	0.354	-	16.5	20	68	-.02
Isopropylbenzene	2.578	2.443	-	5.2	20	69	-.02
4-Bromofluorobenzene	0.913	0.872	-	4.5	20	81	-.01
Bromobenzene	0.679	0.597	-	12.1	20	66	-.02
n-Propylbenzene	3.032	2.903	-	4.3	20	69	-.01
1,4-Dichlorobutane	0.91	0.866	-	4.8	20	73	-.01
1,1,2,2-Tetrachloroethane	0.726	0.644	-	11.3	20	64	-.01
4-Ethyltoluene	2.552	2.385	-	6.5	20	67	-.01
2-Chlorotoluene	2.106	1.988	-	5.6	20	70	-.01
1,3,5-Trimethylbenzene	2.162	2.059	-	4.8	20	70	-.02
1,2,3-Trichloropropane	0.612	0.538	-	12.1	20	66	-.01
trans-1,4-Dichloro-2-buten	0.212	0.221	-	-4.2	20	78	0
4-Chlorotoluene	1.897	1.816	-	4.3	20	71	-.01
tert-Butylbenzene	1.876	1.747	-	6.9	20	67	-.01
1,2,4-Trimethylbenzene	2.172	2.067	-	4.8	20	70	-.02
sec-Butylbenzene	2.799	2.638	-	5.8	20	68	-.01
p-Isopropyltoluene	2.388	2.253	-	5.7	20	68	-.02
1,3-Dichlorobenzene	1.306	1.222	-	6.4	20	70	-.01
1,4-Dichlorobenzene	1.32	1.239	-	6.1	20	71	-.01

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC
 Project Name : TOMBARELLO SITE
 Instrument ID : VOA123
 Lab File ID : V23190917A01
 Sample No : WG1285102-2
 Channel :

Lab Number : L1940717
 Project Number : 17001426
 Calibration Date : 09/17/19 07:26
 Init. Calib. Date(s) : 06/21/19 06/21/19
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.352	-	7.8	20	68	-.01
n-Butylbenzene	2.231	2.158	-	3.3	20	70	-.01
1,2-Dichlorobenzene	1.255	1.149	-	8.4	20	69	-.01
1,2,4,5-Tetramethylbenzene	2.325	2.087	-	10.2	20	66	-.01
1,2-Dibromo-3-chloropropan	0.136	0.114	-	16.2	20	66	-.01
1,3,5-Trichlorobenzene	0.913	0.844	-	7.6	20	69	-.01
Hexachlorobutadiene	0.428	0.355	-	17.1	20	62	-.01
1,2,4-Trichlorobenzene	0.862	0.791	-	8.2	20	68	-.01
Naphthalene	2.486	2.175	-	12.5	20	65	-.01
1,2,3-Trichlorobenzene	0.842	0.737	-	12.5	20	65	-.01

* Value outside of QC limits.

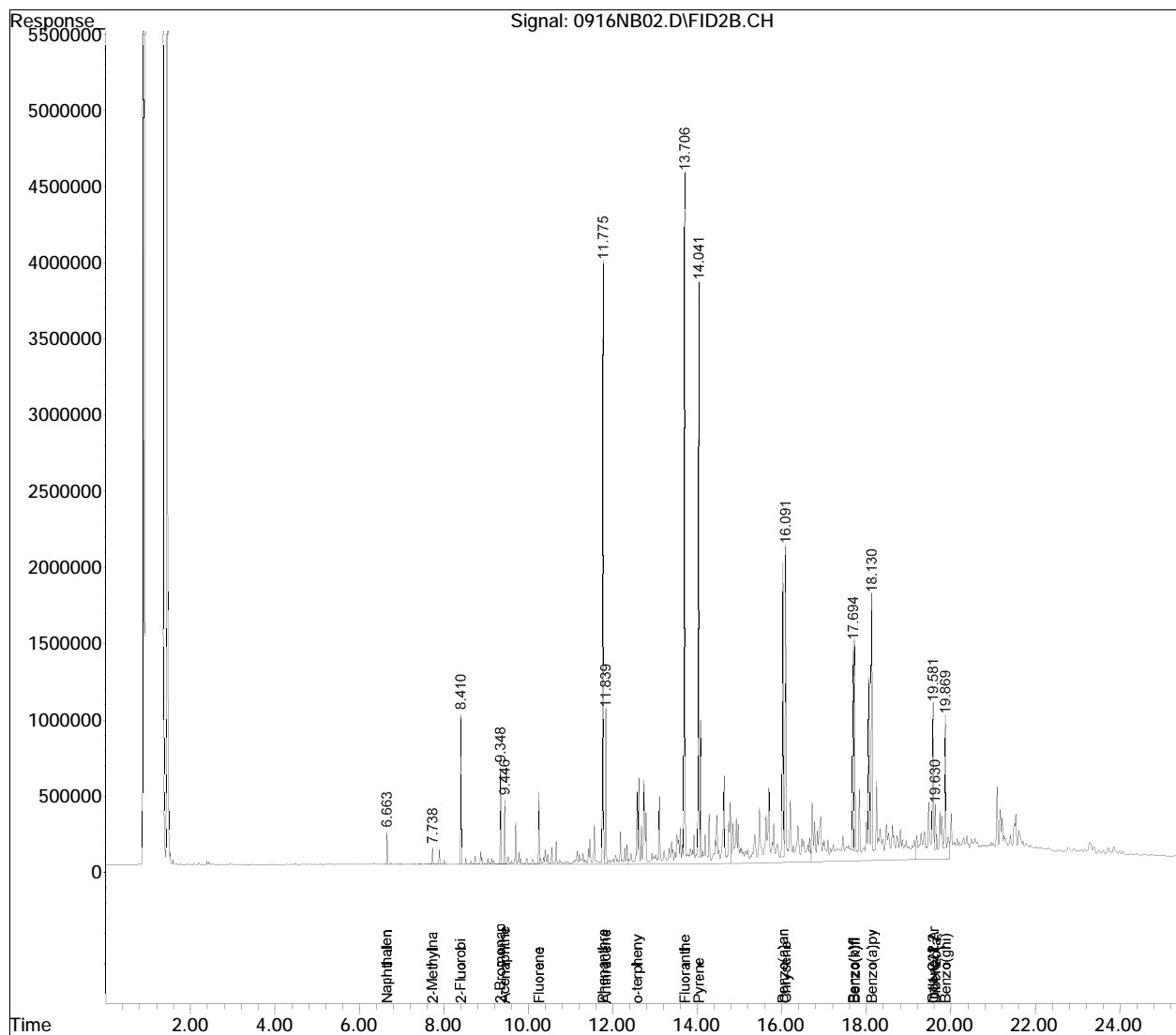


Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Petro10\190916n.sec\
 Data File : 0916NB02.D
 Signal(s) : FID2B.CH
 Acq On : 17 Sep 2019 1:10 am
 Operator : Petro10b:meo
 Sample : 11940717-50d,42,6, rf2x fv3
 Misc : wg1284851,wg1283558,ical12178
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 17 09:30:17 2019
 Quant Method : I:\Petro10\190916n.sec\MAARO160318.M
 Quant Title : MA EPH Aromatic
 QLast Update : Sun Sep 15 15:13:40 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :





ANALYTICAL REPORT

Lab Number:	L1961521
Client:	Crede Associates, LLC 776 Main Street Westbrook, ME 04092
ATTN:	Rick Vandenberg
Phone:	(207) 828-1272
Project Name:	TOMBARELLO
Project Number:	17001426
Report Date:	01/03/20

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
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1961521-01	SB-13 1'-1.5'	SOIL	MA	12/23/19 08:50	12/23/19
L1961521-02	SB-13 2'-3'	SOIL	MA	12/23/19 08:52	12/23/19
L1961521-03	SB-13 3'-4'	SOIL	MA	12/23/19 08:54	12/23/19
L1961521-04	SB-13 4'-5'	SOIL	MA	12/23/19 08:56	12/23/19
L1961521-05	SB-13 5'-7'	SOIL	MA	12/23/19 08:58	12/23/19
L1961521-06	SB-11 1'-1.5'	SOIL	MA	12/23/19 09:20	12/23/19
L1961521-07	SB-11 2'-3'	SOIL	MA	12/23/19 09:22	12/23/19
L1961521-08	SB-11 3'-4'	SOIL	MA	12/23/19 09:24	12/23/19
L1961521-09	SB-11 4'-5'	SOIL	MA	12/23/19 09:26	12/23/19
L1961521-10	SB-11 5'-7'	SOIL	MA	12/23/19 09:28	12/23/19
L1961521-11	SB-14 1'-1.5'	SOIL	MA	12/23/19 09:35	12/23/19
L1961521-12	SB-14 2'-3'	SOIL	MA	12/23/19 09:37	12/23/19
L1961521-13	SB-14 3'-4'	SOIL	MA	12/23/19 09:39	12/23/19
L1961521-14	SB-14 4'-5'	SOIL	MA	12/23/19 09:41	12/23/19
L1961521-15	SB-14 5'-7'	SOIL	MA	12/23/19 09:43	12/23/19
L1961521-16	SB-15 1'-1.5'	SOIL	MA	12/23/19 09:55	12/23/19
L1961521-17	SB-15 2'-3'	SOIL	MA	12/23/19 09:57	12/23/19
L1961521-18	SB-15 3'-4'	SOIL	MA	12/23/19 09:58	12/23/19
L1961521-19	SB-15 4'-5'	SOIL	MA	12/23/19 10:00	12/23/19
L1961521-20	SB-15 5'-7'	SOIL	MA	12/23/19 10:02	12/23/19
L1961521-21	SB-12 1'-1.5'	SOIL	MA	12/23/19 10:30	12/23/19
L1961521-22	SB-12 2'-3'	SOIL	MA	12/23/19 10:32	12/23/19
L1961521-23	SB-12 3'-4'	SOIL	MA	12/23/19 10:35	12/23/19
L1961521-24	SB-12 4'-5'	SOIL	MA	12/23/19 10:37	12/23/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1961521-25	SB-12 5'-7'	SOIL	MA	12/23/19 10:40	12/23/19
L1961521-26	SB-10	SOIL	MA	12/23/19 11:20	12/23/19
L1961521-27	SB-8	SOIL	MA	12/23/19 11:45	12/23/19
L1961521-28	SB-DUP-7	SOIL	MA	12/23/19 11:47	12/23/19
L1961521-29	SB-7	SOIL	MA	12/23/19 12:05	12/23/19
L1961521-30	SB-6	SOIL	MA	12/23/19 12:25	12/23/19
L1961521-31	SB-9	SOIL	MA	12/23/19 12:45	12/23/19
L1961521-32	SB-5	SOIL	MA	12/23/19 12:50	12/23/19

Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Case Narrative

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

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

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

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

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

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

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Case Narrative (continued)

MCP Related Narratives

PCBs

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1961521-21: 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 WG1326468-4 MS recovery, performed on L1961521-26, is outside the acceptance criteria for lead (0%). Re-analysis of the MS yielded an unacceptable recovery of <30%. The MS % recovery is <30%, but the sample detection is above the RL. The LCS recovery is acceptable; therefore, no further action was taken. The WG1326468-5 MSD recovery, performed on L1961521-26, is outside the acceptance criteria for lead (2680%). Re-analysis of the MS yielded an unacceptable recovery of 2680%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken. The WG1326468-4/-5 MS/MSD RPD for lead (118%) is above the acceptance criteria.

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

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

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 01/03/20

QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Polychlorinated Biphenyls - Westborough Lab								
8082A	SB-12 1'-1.5'	L1961521-21 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-12 1'-1.5'	L1961521-21 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-12 1'-1.5'	L1961521-21 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-12 1'-1.5'	L1961521-21 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
MCP Total Metals - Mansfield Lab								
6020B	Batch QC (L1961521-26)	WG1326468-4	Lead, Total	MS	0	75-125	26	potential low bias
6020B	Batch QC (L1961521-26)	WG1326468-5	Lead, Total	MSD	118	35	26	non-directional bias
6020B	Batch QC (L1961521-26)	WG1326468-5	Lead, Total	MSD	2680	75-125	26	potential high bias

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-26
 Client ID: SB-10
 Sample Location: MA

Date Collected: 12/23/19 11:20
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 12/27/19 15:50
 Analyst: SR
 Percent Solids: 69%

Extraction Method: EPA 3546
 Extraction Date: 12/24/19 21:47
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 12/26/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.60	--	1
C19-C36 Aliphatics	26.3		mg/kg	9.60	--	1
C11-C22 Aromatics	82.8		mg/kg	9.60	--	1
C11-C22 Aromatics, Adjusted	46.0		mg/kg	9.60	--	1
Naphthalene	ND		mg/kg	0.480	--	1
2-Methylnaphthalene	ND		mg/kg	0.480	--	1
Acenaphthylene	ND		mg/kg	0.480	--	1
Acenaphthene	ND		mg/kg	0.480	--	1
Fluorene	ND		mg/kg	0.480	--	1
Phenanthrene	7.37		mg/kg	0.480	--	1
Anthracene	1.59		mg/kg	0.480	--	1
Fluoranthene	7.09		mg/kg	0.480	--	1
Pyrene	6.04		mg/kg	0.480	--	1
Benzo(a)anthracene	2.74		mg/kg	0.480	--	1
Chrysene	2.78		mg/kg	0.480	--	1
Benzo(b)fluoranthene	2.05		mg/kg	0.480	--	1
Benzo(k)fluoranthene	2.13		mg/kg	0.480	--	1
Benzo(a)pyrene	2.31		mg/kg	0.480	--	1
Indeno(1,2,3-cd)Pyrene	1.37		mg/kg	0.480	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.480	--	1
Benzo(ghi)perylene	1.32		mg/kg	0.480	--	1

Project Name: TOMBARELLO**Lab Number:** L1961521**Project Number:** 17001426**Report Date:** 01/03/20**SAMPLE RESULTS**

Lab ID: L1961521-26

Date Collected: 12/23/19 11:20

Client ID: SB-10

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

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

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	54		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	84		40-140

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-27
 Client ID: SB-8
 Sample Location: MA

Date Collected: 12/23/19 11:45
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 12/27/19 16:29
 Analyst: SR
 Percent Solids: 66%

Extraction Method: EPA 3546
 Extraction Date: 12/24/19 21:47
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 12/26/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.88	--	1
C19-C36 Aliphatics	340		mg/kg	9.88	--	1
C11-C22 Aromatics	15.4		mg/kg	9.88	--	1
C11-C22 Aromatics, Adjusted	15.4		mg/kg	9.88	--	1
Naphthalene	ND		mg/kg	0.494	--	1
2-Methylnaphthalene	ND		mg/kg	0.494	--	1
Acenaphthylene	ND		mg/kg	0.494	--	1
Acenaphthene	ND		mg/kg	0.494	--	1
Fluorene	ND		mg/kg	0.494	--	1
Phenanthrene	ND		mg/kg	0.494	--	1
Anthracene	ND		mg/kg	0.494	--	1
Fluoranthene	ND		mg/kg	0.494	--	1
Pyrene	ND		mg/kg	0.494	--	1
Benzo(a)anthracene	ND		mg/kg	0.494	--	1
Chrysene	ND		mg/kg	0.494	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.494	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.494	--	1
Benzo(a)pyrene	ND		mg/kg	0.494	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.494	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.494	--	1
Benzo(ghi)perylene	ND		mg/kg	0.494	--	1

Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-27

Date Collected: 12/23/19 11:45

Client ID: SB-8

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

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

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	75		40-140

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-28
 Client ID: SB-DUP-7
 Sample Location: MA

Date Collected: 12/23/19 11:47
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 12/27/19 17:07
 Analyst: SR
 Percent Solids: 66%

Extraction Method: EPA 3546
 Extraction Date: 12/24/19 21:47
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 12/26/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.62	--	1
C19-C36 Aliphatics	211		mg/kg	9.62	--	1
C11-C22 Aromatics	177		mg/kg	9.62	--	1
C11-C22 Aromatics, Adjusted	176		mg/kg	9.62	--	1
Naphthalene	ND		mg/kg	0.481	--	1
2-Methylnaphthalene	ND		mg/kg	0.481	--	1
Acenaphthylene	ND		mg/kg	0.481	--	1
Acenaphthene	ND		mg/kg	0.481	--	1
Fluorene	ND		mg/kg	0.481	--	1
Phenanthrene	ND		mg/kg	0.481	--	1
Anthracene	ND		mg/kg	0.481	--	1
Fluoranthene	0.697		mg/kg	0.481	--	1
Pyrene	0.696		mg/kg	0.481	--	1
Benzo(a)anthracene	ND		mg/kg	0.481	--	1
Chrysene	ND		mg/kg	0.481	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.481	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.481	--	1
Benzo(a)pyrene	ND		mg/kg	0.481	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.481	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.481	--	1
Benzo(ghi)perylene	ND		mg/kg	0.481	--	1

Project Name: TOMBARELLO**Lab Number:** L1961521**Project Number:** 17001426**Report Date:** 01/03/20**SAMPLE RESULTS**

Lab ID: L1961521-28

Date Collected: 12/23/19 11:47

Client ID: SB-DUP-7

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	55		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	83		40-140

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-29
 Client ID: SB-7
 Sample Location: MA

Date Collected: 12/23/19 12:05
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 12/27/19 17:46
 Analyst: SR
 Percent Solids: 61%

Extraction Method: EPA 3546
 Extraction Date: 12/24/19 21:47
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 12/26/19

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	10.8	--	1
C19-C36 Aliphatics	26.1		mg/kg	10.8	--	1
C11-C22 Aromatics	256		mg/kg	10.8	--	1
C11-C22 Aromatics, Adjusted	254		mg/kg	10.8	--	1
Naphthalene	ND		mg/kg	0.538	--	1
2-Methylnaphthalene	ND		mg/kg	0.538	--	1
Acenaphthylene	ND		mg/kg	0.538	--	1
Acenaphthene	ND		mg/kg	0.538	--	1
Fluorene	ND		mg/kg	0.538	--	1
Phenanthrene	ND		mg/kg	0.538	--	1
Anthracene	ND		mg/kg	0.538	--	1
Fluoranthene	0.620		mg/kg	0.538	--	1
Pyrene	0.641		mg/kg	0.538	--	1
Benzo(a)anthracene	ND		mg/kg	0.538	--	1
Chrysene	ND		mg/kg	0.538	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.538	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.538	--	1
Benzo(a)pyrene	ND		mg/kg	0.538	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.538	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.538	--	1
Benzo(ghi)perylene	ND		mg/kg	0.538	--	1

Project Name: TOMBARELLO**Lab Number:** L1961521**Project Number:** 17001426**Report Date:** 01/03/20**SAMPLE RESULTS**

Lab ID: L1961521-29

Date Collected: 12/23/19 12:05

Client ID: SB-7

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	43		40-140
o-Terphenyl	63		40-140
2-Fluorobiphenyl	88		40-140
2-Bromonaphthalene	87		40-140

Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-30

Date Collected: 12/23/19 12:25

Client ID: SB-6

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 12/24/19 21:47

Analytical Date: 12/27/19 18:24

Cleanup Method1: EPH-04-1

Analyst: SR

Cleanup Date1: 12/26/19

Percent Solids: 63%

Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	10.2	--	1
C19-C36 Aliphatics	16.4		mg/kg	10.2	--	1
C11-C22 Aromatics	156		mg/kg	10.2	--	1
C11-C22 Aromatics, Adjusted	105		mg/kg	10.2	--	1
Naphthalene	ND		mg/kg	0.511	--	1
2-Methylnaphthalene	ND		mg/kg	0.511	--	1
Acenaphthylene	ND		mg/kg	0.511	--	1
Acenaphthene	0.794		mg/kg	0.511	--	1
Fluorene	0.645		mg/kg	0.511	--	1
Phenanthrene	8.95		mg/kg	0.511	--	1
Anthracene	1.49		mg/kg	0.511	--	1
Fluoranthene	7.30		mg/kg	0.511	--	1
Pyrene	9.88		mg/kg	0.511	--	1
Benzo(a)anthracene	4.32		mg/kg	0.511	--	1
Chrysene	4.80		mg/kg	0.511	--	1
Benzo(b)fluoranthene	2.49		mg/kg	0.511	--	1
Benzo(k)fluoranthene	2.82		mg/kg	0.511	--	1
Benzo(a)pyrene	3.58		mg/kg	0.511	--	1
Indeno(1,2,3-cd)Pyrene	1.98		mg/kg	0.511	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.511	--	1
Benzo(ghi)perylene	2.01		mg/kg	0.511	--	1

Project Name: TOMBARELLO**Lab Number:** L1961521**Project Number:** 17001426**Report Date:** 01/03/20**SAMPLE RESULTS**

Lab ID: L1961521-30

Date Collected: 12/23/19 12:25

Client ID: SB-6

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	44		40-140
o-Terphenyl	54		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	83		40-140

Project Name: TOMBARELLO**Lab Number:** L1961521**Project Number:** 17001426**Report Date:** 01/03/20**SAMPLE RESULTS**

Lab ID: L1961521-31

Date Collected: 12/23/19 12:45

Client ID: SB-9

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 12/24/19 21:47

Analytical Date: 12/27/19 11:42

Cleanup Method1: EPH-04-1

Analyst: SC

Cleanup Date1: 12/26/19

Percent Solids: 68%

Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.70	--	1
C19-C36 Aliphatics	40.4		mg/kg	9.70	--	1
C11-C22 Aromatics	16.0		mg/kg	9.70	--	1
C11-C22 Aromatics, Adjusted	16.0		mg/kg	9.70	--	1
Naphthalene	ND		mg/kg	0.485	--	1
2-Methylnaphthalene	ND		mg/kg	0.485	--	1
Acenaphthylene	ND		mg/kg	0.485	--	1
Acenaphthene	ND		mg/kg	0.485	--	1
Fluorene	ND		mg/kg	0.485	--	1
Phenanthrene	ND		mg/kg	0.485	--	1
Anthracene	ND		mg/kg	0.485	--	1
Fluoranthene	ND		mg/kg	0.485	--	1
Pyrene	ND		mg/kg	0.485	--	1
Benzo(a)anthracene	ND		mg/kg	0.485	--	1
Chrysene	ND		mg/kg	0.485	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.485	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.485	--	1
Benzo(a)pyrene	ND		mg/kg	0.485	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.485	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.485	--	1
Benzo(ghi)perylene	ND		mg/kg	0.485	--	1

Project Name: TOMBARELLO**Lab Number:** L1961521**Project Number:** 17001426**Report Date:** 01/03/20**SAMPLE RESULTS**

Lab ID: L1961521-31

Date Collected: 12/23/19 12:45

Client ID: SB-9

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	42		40-140
2-Fluorobiphenyl	65		40-140
2-Bromonaphthalene	65		40-140

Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-32

Date Collected: 12/23/19 12:50

Client ID: SB-5

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 12/24/19 21:47

Analytical Date: 12/27/19 12:14

Cleanup Method1: EPH-04-1

Analyst: SC

Cleanup Date1: 12/26/19

Percent Solids: 63%

Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	10.5	--	1
C19-C36 Aliphatics	ND		mg/kg	10.5	--	1
C11-C22 Aromatics	ND		mg/kg	10.5	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	10.5	--	1
Naphthalene	ND		mg/kg	0.526	--	1
2-Methylnaphthalene	ND		mg/kg	0.526	--	1
Acenaphthylene	ND		mg/kg	0.526	--	1
Acenaphthene	ND		mg/kg	0.526	--	1
Fluorene	ND		mg/kg	0.526	--	1
Phenanthrene	ND		mg/kg	0.526	--	1
Anthracene	ND		mg/kg	0.526	--	1
Fluoranthene	ND		mg/kg	0.526	--	1
Pyrene	ND		mg/kg	0.526	--	1
Benzo(a)anthracene	ND		mg/kg	0.526	--	1
Chrysene	ND		mg/kg	0.526	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.526	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.526	--	1
Benzo(a)pyrene	ND		mg/kg	0.526	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.526	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.526	--	1
Benzo(ghi)perylene	ND		mg/kg	0.526	--	1

Project Name: TOMBARELLO**Lab Number:** L1961521**Project Number:** 17001426**Report Date:** 01/03/20**SAMPLE RESULTS**

Lab ID: L1961521-32

Date Collected: 12/23/19 12:50

Client ID: SB-5

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	65		40-140
o-Terphenyl	54		40-140
2-Fluorobiphenyl	63		40-140
2-Bromonaphthalene	62		40-140

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
Analytical Date: 12/27/19 10:05
Analyst: SR

Extraction Method: EPA 3546
Extraction Date: 12/24/19 21:46
Cleanup Method: EPH-04-1
Cleanup Date: 12/26/19

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 26-32 Batch: WG1324676-1					
C9-C18 Aliphatics	ND		mg/kg	6.56	--
C19-C36 Aliphatics	ND		mg/kg	6.56	--
C11-C22 Aromatics	ND		mg/kg	6.56	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.56	--
Naphthalene	ND		mg/kg	0.328	--
2-Methylnaphthalene	ND		mg/kg	0.328	--
Acenaphthylene	ND		mg/kg	0.328	--
Acenaphthene	ND		mg/kg	0.328	--
Fluorene	ND		mg/kg	0.328	--
Phenanthrene	ND		mg/kg	0.328	--
Anthracene	ND		mg/kg	0.328	--
Fluoranthene	ND		mg/kg	0.328	--
Pyrene	ND		mg/kg	0.328	--
Benzo(a)anthracene	ND		mg/kg	0.328	--
Chrysene	ND		mg/kg	0.328	--
Benzo(b)fluoranthene	ND		mg/kg	0.328	--
Benzo(k)fluoranthene	ND		mg/kg	0.328	--
Benzo(a)pyrene	ND		mg/kg	0.328	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.328	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.328	--
Benzo(ghi)perylene	ND		mg/kg	0.328	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	81		40-140
2-Bromonaphthalene	80		40-140



Lab Control Sample Analysis

Batch Quality Control

Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 26-32 Batch: WG1324676-2 WG1324676-3								
C9-C18 Aliphatics	60		57		40-140	5		25
C19-C36 Aliphatics	76		68		40-140	11		25
C11-C22 Aromatics	77		68		40-140	12		25
Naphthalene	58		57		40-140	2		25
2-Methylnaphthalene	62		60		40-140	3		25
Acenaphthylene	62		60		40-140	3		25
Acenaphthene	66		63		40-140	5		25
Fluorene	67		62		40-140	8		25
Phenanthrene	76		67		40-140	13		25
Anthracene	77		67		40-140	14		25
Fluoranthene	79		68		40-140	15		25
Pyrene	81		70		40-140	15		25
Benzo(a)anthracene	79		68		40-140	15		25
Chrysene	79		70		40-140	12		25
Benzo(b)fluoranthene	78		67		40-140	15		25
Benzo(k)fluoranthene	77		68		40-140	12		25
Benzo(a)pyrene	76		66		40-140	14		25
Indeno(1,2,3-cd)Pyrene	75		65		40-140	14		25
Dibenzo(a,h)anthracene	74		65		40-140	13		25
Benzo(ghi)perylene	70		62		40-140	12		25
Nonane (C9)	43		46		30-140	7		25
Decane (C10)	49		52		40-140	6		25
Dodecane (C12)	50		52		40-140	4		25

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 26-32 Batch: WG1324676-2 WG1324676-3								
Tetradecane (C14)	50		52		40-140	4		25
Hexadecane (C16)	56		54		40-140	4		25
Octadecane (C18)	64		59		40-140	8		25
Nonadecane (C19)	67		59		40-140	13		25
Eicosane (C20)	69		61		40-140	12		25
Docosane (C22)	71		62		40-140	14		25
Tetracosane (C24)	72		63		40-140	13		25
Hexacosane (C26)	75		65		40-140	14		25
Octacosane (C28)	76		66		40-140	14		25
Triacontane (C30)	78		68		40-140	14		25
Hexatriacontane (C36)	79		70		40-140	12		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Chloro-Octadecane	65		57		40-140
o-Terphenyl	74		63		40-140
2-Fluorobiphenyl	83		79		40-140
2-Bromonaphthalene	82		78		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		



PCBS

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-01
 Client ID: SB-13 1'-1.5'
 Sample Location: MA

Date Collected: 12/23/19 08:50
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 12:14
 Analyst: HT
 Percent Solids: 89%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	--	1	A
Aroclor 1221	ND		ug/kg	36.5	--	1	A
Aroclor 1232	ND		ug/kg	36.5	--	1	A
Aroclor 1242	65.4		ug/kg	36.5	--	1	B
Aroclor 1248	ND		ug/kg	36.5	--	1	A
Aroclor 1254	ND		ug/kg	36.5	--	1	A
Aroclor 1260	531		ug/kg	36.5	--	1	B
Aroclor 1262	ND		ug/kg	36.5	--	1	A
Aroclor 1268	ND		ug/kg	36.5	--	1	A
PCBs, Total	596		ug/kg	36.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	55		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-02
 Client ID: SB-13 2'-3'
 Sample Location: MA

Date Collected: 12/23/19 08:52
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 12:26
 Analyst: HT
 Percent Solids: 80%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.8	--	1	A
Aroclor 1221	ND		ug/kg	40.8	--	1	A
Aroclor 1232	ND		ug/kg	40.8	--	1	A
Aroclor 1242	ND		ug/kg	40.8	--	1	A
Aroclor 1248	ND		ug/kg	40.8	--	1	A
Aroclor 1254	ND		ug/kg	40.8	--	1	A
Aroclor 1260	ND		ug/kg	40.8	--	1	B
Aroclor 1262	ND		ug/kg	40.8	--	1	A
Aroclor 1268	ND		ug/kg	40.8	--	1	A
PCBs, Total	ND		ug/kg	40.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	60		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-03
 Client ID: SB-13 3'-4'
 Sample Location: MA

Date Collected: 12/23/19 08:54
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 12:38
 Analyst: HT
 Percent Solids: 89%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	--	1	A
Aroclor 1221	ND		ug/kg	36.2	--	1	A
Aroclor 1232	ND		ug/kg	36.2	--	1	A
Aroclor 1242	ND		ug/kg	36.2	--	1	A
Aroclor 1248	ND		ug/kg	36.2	--	1	A
Aroclor 1254	ND		ug/kg	36.2	--	1	A
Aroclor 1260	ND		ug/kg	36.2	--	1	B
Aroclor 1262	ND		ug/kg	36.2	--	1	A
Aroclor 1268	ND		ug/kg	36.2	--	1	A
PCBs, Total	ND		ug/kg	36.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	56		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-06
 Client ID: SB-11 1'-1.5'
 Sample Location: MA

Date Collected: 12/23/19 09:20
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 12:50
 Analyst: HT
 Percent Solids: 90%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	--	1	A
Aroclor 1221	ND		ug/kg	36.0	--	1	A
Aroclor 1232	ND		ug/kg	36.0	--	1	A
Aroclor 1242	ND		ug/kg	36.0	--	1	A
Aroclor 1248	ND		ug/kg	36.0	--	1	A
Aroclor 1254	ND		ug/kg	36.0	--	1	A
Aroclor 1260	ND		ug/kg	36.0	--	1	A
Aroclor 1262	ND		ug/kg	36.0	--	1	A
Aroclor 1268	ND		ug/kg	36.0	--	1	A
PCBs, Total	ND		ug/kg	36.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-07
 Client ID: SB-11 2'-3'
 Sample Location: MA

Date Collected: 12/23/19 09:22
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 13:02
 Analyst: HT
 Percent Solids: 92%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	--	1	A
Aroclor 1221	ND		ug/kg	35.9	--	1	A
Aroclor 1232	ND		ug/kg	35.9	--	1	A
Aroclor 1242	ND		ug/kg	35.9	--	1	A
Aroclor 1248	ND		ug/kg	35.9	--	1	A
Aroclor 1254	ND		ug/kg	35.9	--	1	A
Aroclor 1260	ND		ug/kg	35.9	--	1	A
Aroclor 1262	ND		ug/kg	35.9	--	1	A
Aroclor 1268	ND		ug/kg	35.9	--	1	A
PCBs, Total	ND		ug/kg	35.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-08
 Client ID: SB-11 3'-4'
 Sample Location: MA

Date Collected: 12/23/19 09:24
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 13:15
 Analyst: HT
 Percent Solids: 91%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	--	1	A
Aroclor 1221	ND		ug/kg	36.2	--	1	A
Aroclor 1232	ND		ug/kg	36.2	--	1	A
Aroclor 1242	ND		ug/kg	36.2	--	1	A
Aroclor 1248	ND		ug/kg	36.2	--	1	A
Aroclor 1254	ND		ug/kg	36.2	--	1	A
Aroclor 1260	ND		ug/kg	36.2	--	1	A
Aroclor 1262	ND		ug/kg	36.2	--	1	A
Aroclor 1268	ND		ug/kg	36.2	--	1	A
PCBs, Total	ND		ug/kg	36.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	126		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-11
 Client ID: SB-14 1'-1.5'
 Sample Location: MA

Date Collected: 12/23/19 09:35
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 01/01/20 22:29
 Analyst: HT
 Percent Solids: 89%

Extraction Method: EPA 3540C
 Extraction Date: 12/31/19 03:23
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 01/01/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	--	1	A
Aroclor 1221	ND		ug/kg	35.4	--	1	A
Aroclor 1232	ND		ug/kg	35.4	--	1	A
Aroclor 1242	ND		ug/kg	35.4	--	1	A
Aroclor 1248	ND		ug/kg	35.4	--	1	A
Aroclor 1254	102		ug/kg	35.4	--	1	B
Aroclor 1260	54.0		ug/kg	35.4	--	1	A
Aroclor 1262	ND		ug/kg	35.4	--	1	A
Aroclor 1268	ND		ug/kg	35.4	--	1	A
PCBs, Total	156		ug/kg	35.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-12
 Client ID: SB-14 2'-3'
 Sample Location: MA

Date Collected: 12/23/19 09:37
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 13:39
 Analyst: HT
 Percent Solids: 92%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.1	--	1	A
Aroclor 1221	ND		ug/kg	35.1	--	1	A
Aroclor 1232	ND		ug/kg	35.1	--	1	A
Aroclor 1242	ND		ug/kg	35.1	--	1	A
Aroclor 1248	ND		ug/kg	35.1	--	1	A
Aroclor 1254	ND		ug/kg	35.1	--	1	A
Aroclor 1260	ND		ug/kg	35.1	--	1	B
Aroclor 1262	ND		ug/kg	35.1	--	1	A
Aroclor 1268	ND		ug/kg	35.1	--	1	A
PCBs, Total	ND		ug/kg	35.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	72		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-13
 Client ID: SB-14 3'-4'
 Sample Location: MA

Date Collected: 12/23/19 09:39
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 13:51
 Analyst: HT
 Percent Solids: 95%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.0	--	1	A
Aroclor 1221	ND		ug/kg	34.0	--	1	A
Aroclor 1232	ND		ug/kg	34.0	--	1	A
Aroclor 1242	ND		ug/kg	34.0	--	1	A
Aroclor 1248	ND		ug/kg	34.0	--	1	A
Aroclor 1254	ND		ug/kg	34.0	--	1	A
Aroclor 1260	ND		ug/kg	34.0	--	1	A
Aroclor 1262	ND		ug/kg	34.0	--	1	A
Aroclor 1268	ND		ug/kg	34.0	--	1	A
PCBs, Total	ND		ug/kg	34.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	61		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-16
 Client ID: SB-15 1'-1.5'
 Sample Location: MA

Date Collected: 12/23/19 09:55
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 14:03
 Analyst: HT
 Percent Solids: 88%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	--	1	A
Aroclor 1221	ND		ug/kg	36.4	--	1	A
Aroclor 1232	ND		ug/kg	36.4	--	1	A
Aroclor 1242	ND		ug/kg	36.4	--	1	A
Aroclor 1248	ND		ug/kg	36.4	--	1	A
Aroclor 1254	ND		ug/kg	36.4	--	1	A
Aroclor 1260	132		ug/kg	36.4	--	1	B
Aroclor 1262	ND		ug/kg	36.4	--	1	A
Aroclor 1268	ND		ug/kg	36.4	--	1	A
PCBs, Total	132		ug/kg	36.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	49		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-17
 Client ID: SB-15 2'-3'
 Sample Location: MA

Date Collected: 12/23/19 09:57
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 14:16
 Analyst: HT
 Percent Solids: 87%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	--	1	A
Aroclor 1221	ND		ug/kg	37.6	--	1	A
Aroclor 1232	ND		ug/kg	37.6	--	1	A
Aroclor 1242	ND		ug/kg	37.6	--	1	A
Aroclor 1248	ND		ug/kg	37.6	--	1	A
Aroclor 1254	ND		ug/kg	37.6	--	1	A
Aroclor 1260	ND		ug/kg	37.6	--	1	A
Aroclor 1262	ND		ug/kg	37.6	--	1	A
Aroclor 1268	ND		ug/kg	37.6	--	1	A
PCBs, Total	ND		ug/kg	37.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	57		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-18
 Client ID: SB-15 3'-4'
 Sample Location: MA

Date Collected: 12/23/19 09:58
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 14:28
 Analyst: HT
 Percent Solids: 90%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	--	1	A
Aroclor 1221	ND		ug/kg	36.1	--	1	A
Aroclor 1232	ND		ug/kg	36.1	--	1	A
Aroclor 1242	ND		ug/kg	36.1	--	1	A
Aroclor 1248	ND		ug/kg	36.1	--	1	A
Aroclor 1254	ND		ug/kg	36.1	--	1	A
Aroclor 1260	ND		ug/kg	36.1	--	1	A
Aroclor 1262	ND		ug/kg	36.1	--	1	A
Aroclor 1268	ND		ug/kg	36.1	--	1	B
PCBs, Total	ND		ug/kg	36.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-21 D
 Client ID: SB-12 1'-1.5'
 Sample Location: MA

Date Collected: 12/23/19 10:30
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/19 16:01
 Analyst: WR
 Percent Solids: 80%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	398	--	10	A
Aroclor 1221	ND		ug/kg	398	--	10	A
Aroclor 1232	ND		ug/kg	398	--	10	A
Aroclor 1242	ND		ug/kg	398	--	10	A
Aroclor 1248	ND		ug/kg	398	--	10	A
Aroclor 1254	ND		ug/kg	398	--	10	A
Aroclor 1260	3020		ug/kg	398	--	10	A
Aroclor 1262	ND		ug/kg	398	--	10	A
Aroclor 1268	ND		ug/kg	398	--	10	A
PCBs, Total	3020		ug/kg	398	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-22
 Client ID: SB-12 2'-3'
 Sample Location: MA

Date Collected: 12/23/19 10:32
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 14:52
 Analyst: HT
 Percent Solids: 84%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.8	--	1	A
Aroclor 1221	ND		ug/kg	38.8	--	1	A
Aroclor 1232	ND		ug/kg	38.8	--	1	A
Aroclor 1242	ND		ug/kg	38.8	--	1	A
Aroclor 1248	ND		ug/kg	38.8	--	1	A
Aroclor 1254	ND		ug/kg	38.8	--	1	A
Aroclor 1260	77.5		ug/kg	38.8	--	1	B
Aroclor 1262	ND		ug/kg	38.8	--	1	A
Aroclor 1268	ND		ug/kg	38.8	--	1	A
PCBs, Total	77.5		ug/kg	38.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-23
 Client ID: SB-12 3'-4'
 Sample Location: MA

Date Collected: 12/23/19 10:35
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/29/19 15:04
 Analyst: HT
 Percent Solids: 82%

Extraction Method: EPA 3540C
 Extraction Date: 12/26/19 10:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/27/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.3	--	1	A
Aroclor 1221	ND		ug/kg	40.3	--	1	A
Aroclor 1232	ND		ug/kg	40.3	--	1	A
Aroclor 1242	ND		ug/kg	40.3	--	1	A
Aroclor 1248	ND		ug/kg	40.3	--	1	A
Aroclor 1254	ND		ug/kg	40.3	--	1	A
Aroclor 1260	ND		ug/kg	40.3	--	1	A
Aroclor 1262	ND		ug/kg	40.3	--	1	A
Aroclor 1268	ND		ug/kg	40.3	--	1	B
PCBs, Total	ND		ug/kg	40.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	62		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8082A
Analytical Date: 12/27/19 15:40
Analyst: HT

Extraction Method: EPA 3540C
Extraction Date: 12/26/19 10:00
Cleanup Method: EPA 3665A
Cleanup Date: 12/27/19
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-03,06-08,12-13,16-18,21-23						
Batch: WG1324802-1						
Aroclor 1016	ND		ug/kg	32.3	--	A
Aroclor 1221	ND		ug/kg	32.3	--	A
Aroclor 1232	ND		ug/kg	32.3	--	A
Aroclor 1242	ND		ug/kg	32.3	--	A
Aroclor 1248	ND		ug/kg	32.3	--	A
Aroclor 1254	ND		ug/kg	32.3	--	A
Aroclor 1260	ND		ug/kg	32.3	--	A
Aroclor 1262	ND		ug/kg	32.3	--	A
Aroclor 1268	ND		ug/kg	32.3	--	A
PCBs, Total	ND		ug/kg	32.3	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	53		30-150	A

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8082A
Analytical Date: 12/31/19 15:34
Analyst: HT

Extraction Method: EPA 3540C
Extraction Date: 12/30/19 19:40
Cleanup Method: EPA 3665A
Cleanup Date: 12/31/19
Cleanup Method: EPA 3660B
Cleanup Date: 12/31/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 11 Batch: WG1325910-1						
Aroclor 1016	ND		ug/kg	33.2	--	A
Aroclor 1221	ND		ug/kg	33.2	--	A
Aroclor 1232	ND		ug/kg	33.2	--	A
Aroclor 1242	ND		ug/kg	33.2	--	A
Aroclor 1248	ND		ug/kg	33.2	--	A
Aroclor 1254	ND		ug/kg	33.2	--	A
Aroclor 1260	ND		ug/kg	33.2	--	A
Aroclor 1262	ND		ug/kg	33.2	--	A
Aroclor 1268	ND		ug/kg	33.2	--	A
PCBs, Total	ND		ug/kg	33.2	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	50		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	42		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-03,06-08,12-13,16-18,21-23 Batch: WG1324802-2 WG1324802-3									
Aroclor 1016	61		79		40-140	26		30	A
Aroclor 1260	66		86		40-140	26		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		86		30-150	B
Decachlorobiphenyl	69		95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		82		30-150	A
Decachlorobiphenyl	68		88		30-150	A



Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 11 Batch: WG1325910-2 WG1325910-3									
Aroclor 1016	92		98		40-140	6		30	A
Aroclor 1260	67		72		40-140	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		63		30-150	B
Decachlorobiphenyl	46		47		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		64		30-150	A
Decachlorobiphenyl	42		45		30-150	A

METALS

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-26
 Client ID: SB-10
 Sample Location: MA

Date Collected: 12/23/19 11:20
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Lead, Total	7000		mg/kg	4.2	--	50	12/27/19 06:15	01/02/20 19:35	EPA 3050B	97,6020B	MG



Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-27

Date Collected: 12/23/19 11:45

Client ID: SB-8

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Lead, Total	240		mg/kg	0.90	--	10	12/28/19 01:00	12/30/19 23:36	EPA 3050B	97,6020B	MG



Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-28

Date Collected: 12/23/19 11:47

Client ID: SB-DUP-7

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Lead, Total	190		mg/kg	0.89	--	10	12/28/19 01:00	12/30/19 23:40	EPA 3050B	97,6020B	MG



Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-29

Date Collected: 12/23/19 12:05

Client ID: SB-7

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 61%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Lead, Total	2800		mg/kg	0.96	--	10	12/28/19 01:00	12/30/19 23:44	EPA 3050B	97,6020B	MG



Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-30

Date Collected: 12/23/19 12:25

Client ID: SB-6

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Lead, Total	1100		mg/kg	0.91	--	10	12/28/19 01:00	12/30/19 23:49	EPA 3050B	97,6020B	MG



Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-31

Date Collected: 12/23/19 12:45

Client ID: SB-9

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Lead, Total	25		mg/kg	0.88	--	10	12/28/19 01:00	12/30/19 23:53	EPA 3050B	97,6020B	MG



Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-32

Date Collected: 12/23/19 12:50

Client ID: SB-5

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Lead, Total	110		mg/kg	0.93	--	10	12/28/19 01:00	12/30/19 23:57	EPA 3050B	97,6020B	MG



Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 27-32 Batch: WG1325444-1									
Lead, Total	ND	mg/kg	0.60	--	10	12/28/19 01:00	12/30/19 23:23	97,6020B	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 26 Batch: WG1326468-1									
Lead, Total	ND	mg/kg	0.60	--	10	12/27/19 06:15	01/02/20 18:03	97,6020B	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis Batch Quality Control

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 27-32 Batch: WG1325444-2 WG1325444-3 SRM Lot Number: D105-540								
Lead, Total	88		88		71-128	0		30
MCP Total Metals - Mansfield Lab Associated sample(s): 26 Batch: WG1326468-2 WG1326468-3 SRM Lot Number: D105-540								
Lead, Total	96		96		71-128	0		30

Matrix Spike Analysis Batch Quality Control

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 26 QC Batch ID: WG1326468-4 WG1326468-5 QC Sample: L1961521-26 Client ID: SB-10												
Lead, Total	7000	57.6	2200	0	Q	8500	2680	Q	75-125	118	Q	35

Project Name: TOMBARELLO

Project Number: 17001426

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L1961521

Report Date: 01/03/20

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 26 QC Batch ID: WG1326468-6 QC Sample: L1961521-26 Client ID: SB-10						
Lead, Total	7000	7000	mg/kg	0		20

INORGANICS & MISCELLANEOUS

Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-01

Client ID: SB-13 1'-1.5'

Sample Location: MA

Date Collected: 12/23/19 08:50

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-02

Client ID: SB-13 2'-3'

Sample Location: MA

Date Collected: 12/23/19 08:52

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-03

Client ID: SB-13 3'-4'

Sample Location: MA

Date Collected: 12/23/19 08:54

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-06

Client ID: SB-11 1'-1.5'

Sample Location: MA

Date Collected: 12/23/19 09:20

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-07
 Client ID: SB-11 2'-3'
 Sample Location: MA

Date Collected: 12/23/19 09:22
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-08

Client ID: SB-11 3'-4'

Sample Location: MA

Date Collected: 12/23/19 09:24

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-11

Client ID: SB-14 1'-1.5'

Sample Location: MA

Date Collected: 12/23/19 09:35

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-12
 Client ID: SB-14 2'-3'
 Sample Location: MA

Date Collected: 12/23/19 09:37
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-13

Client ID: SB-14 3'-4'

Sample Location: MA

Date Collected: 12/23/19 09:39

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.3		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-16

Client ID: SB-15 1'-1.5'

Sample Location: MA

Date Collected: 12/23/19 09:55

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-17

Client ID: SB-15 2'-3'

Sample Location: MA

Date Collected: 12/23/19 09:57

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-18

Client ID: SB-15 3'-4'

Sample Location: MA

Date Collected: 12/23/19 09:58

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-21
 Client ID: SB-12 1'-1.5'
 Sample Location: MA

Date Collected: 12/23/19 10:30
 Date Received: 12/23/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.8		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-22

Client ID: SB-12 2'-3'

Sample Location: MA

Date Collected: 12/23/19 10:32

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.1		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-23

Date Collected: 12/23/19 10:35

Client ID: SB-12 3'-4'

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-26

Client ID: SB-10

Sample Location: MA

Date Collected: 12/23/19 11:20

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.0		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-27

Client ID: SB-8

Sample Location: MA

Date Collected: 12/23/19 11:45

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.4		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-28

Client ID: SB-DUP-7

Sample Location: MA

Date Collected: 12/23/19 11:47

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	65.5		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-29

Client ID: SB-7

Sample Location: MA

Date Collected: 12/23/19 12:05

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.2		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Lab Number: L1961521

Project Number: 17001426

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-30

Date Collected: 12/23/19 12:25

Client ID: SB-6

Date Received: 12/23/19

Sample Location: MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.8		%	0.100	NA	1	-	12/24/19 12:53	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-31

Client ID: SB-9

Sample Location: MA

Date Collected: 12/23/19 12:45

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.6		%	0.100	NA	1	-	12/24/19 12:06	121,2540G	RI



Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

SAMPLE RESULTS

Lab ID: L1961521-32

Client ID: SB-5

Sample Location: MA

Date Collected: 12/23/19 12:50

Date Received: 12/23/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.5		%	0.100	NA	1	-	12/24/19 12:06	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: TOMBARELLO

Project Number: 17001426

Lab Number: L1961521

Report Date: 01/03/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03,06-08,11-13,16-18,21-23,26-30 QC Batch ID: WG1324563-1 QC Sample: L1961521-01 Client ID: SB-13 1'-1.5'						
Solids, Total	88.7	88.9	%	0		20

Project Name: TOMBARELLO**Lab Number:** L1961521**Project Number:** 17001426**Report Date:** 01/03/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1961521-01A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-02A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-03A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-04A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-05A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-06A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-07A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-08A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-09A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-10A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-11A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-12A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-13A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-14A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-15A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-16A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-17A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-18A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-19A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-20A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-21A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-22A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)

Project Name: TOMBARELLO**Lab Number:** L1961521**Project Number:** 17001426**Report Date:** 01/03/20**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1961521-23A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1961521-24A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-25A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		HOLD-WETCHEM(),HOLD-8082(14)
L1961521-26A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),EPH-DELUX-10(14)
L1961521-26B	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),EPH-DELUX-10(14)
L1961521-26C	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		MCP-PB-6020T-10(180)
L1961521-26D	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		MCP-PB-6020T-10(180)
L1961521-27A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),EPH-DELUX-10(14)
L1961521-27B	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		MCP-PB-6020T-10(180)
L1961521-28A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),EPH-DELUX-10(14)
L1961521-28B	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		MCP-PB-6020T-10(180)
L1961521-29A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),EPH-DELUX-10(14)
L1961521-29B	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		MCP-PB-6020T-10(180)
L1961521-30A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),EPH-DELUX-10(14)
L1961521-30B	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		MCP-PB-6020T-10(180)
L1961521-31A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),EPH-DELUX-10(14)
L1961521-31B	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		MCP-PB-6020T-10(180)
L1961521-32A	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		TS(7),EPH-DELUX-10(14)
L1961521-32B	Glass 120ml/4oz unpreserved	B	NA		4.4	Y	Absent		MCP-PB-6020T-10(180)

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

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

Terms

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

Data Qualifiers

- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: TOMBARELLO
Project Number: 17001426

Lab Number: L1961521
Report Date: 01/03/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE 1 OF 4

Date Rec'd in Lab: 12/23/19 ALPHA Job #: L1961521

Client Information
 Client: CREDERE ASSOCIATE
 Address: 776 MAIN ST WESTBROOK ME 04092
 Phone: 207-528-1272
 Email: S Foote @ credenelle.com
RVANDENREEL@credenelle.com

Project Information
 Project Name: TOMBARELLO
 Project Location: MA
 Project #: 17001426
 Project Manager: R. VANDENREEL
 ALPHA Quote #:

Report Information - Data Deliverables
 ADEX EMAIL

Billing Information
 Same as Client info PO #:

Additional Project Information:
TOMBARELLO SUPPLEMENTAL SUB SURFACE INVESTIGATION

Turn-Around Time
 Standard RUSH (only confirmed if pre-approved)
 Date Due:

Regulatory Requirements & Project Information Requirements
 Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
<u>61521-01</u>	<u>SB-13 1'-1.5'</u>	<u>12/23/19</u>	<u>0850</u>	<u>S</u>	<u>ST.</u>
<u>02</u>	<u>SB-13 2'-3'</u>	<u>12/22/19</u>	<u>0852</u>	<u>S</u>	<u>S.T</u>
<u>03</u>	<u>SB-13 3'-4'</u>	<u>12/23/19</u>	<u>0854</u>	<u>S</u>	<u>S.T</u>
<u>04</u>	<u>SB-13 4'-5'</u>	<u>12/23/19</u>	<u>0856</u>	<u>S</u>	<u>S.T.</u>
<u>05</u>	<u>SB-13 5'-7'</u>	<u>12/23/19</u>	<u>0858</u>	<u>S</u>	<u>S.T.</u>
<u>06</u>	<u>SB-11 1'-1.5'</u>	<u>12/23/19</u>	<u>0920</u>	<u>S</u>	<u>S.T</u>
<u>07</u>	<u>SB-11 2'-3'</u>	<u>12/23/19</u>	<u>0922</u>	<u>S</u>	<u>S.T</u>
<u>08</u>	<u>SB-11 3'-4'</u>	<u>12/23/19</u>	<u>0924</u>	<u>S</u>	<u>S.T</u>
<u>09</u>	<u>SB-11 4'-5'</u>	<u>12/23/19</u>	<u>0926</u>	<u>S</u>	<u>S.T</u>
<u>10</u>	<u>SB-11 5'-7'</u>	<u>12/23/19</u>	<u>0928</u>	<u>S</u>	<u>S.T</u>

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2
	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH
	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15
METALS:	<input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PP13
	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only
VPH:	<input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only
	<input type="checkbox"/> BCB <input type="checkbox"/> PEST <input type="checkbox"/> SoX/WLET EXT
TPH:	<input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint

SAMPLE INFO

Filtration
 Field
 Lab to do

Preservation
 Lab to do

Sample Comments

TOTAL # BOTTLES

Container Type
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteria cup
 C= Cube
 O= Other
 E= Encore
 D= BOD Bottle

Preservative
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₄
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type: A
 Preservative: A

Relinquished By: Stef Date/Time: 12/23/19 1430
Storage locker Date/Time: 12/23/19 1715
Rob Maerto Date/Time: 12/23/19 1930

Received By: NHSC STAFF WORK Date/Time: 12/23/19 1715
Rob Maerto Date/Time: 12/23/19 1930
Marah Date/Time: 12/23/19 1930

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
 FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 2 OF 4

8 Walkup Drive Westboro, MA 01581 Tel: 508-898-9220
 320 Forbes Blvd Mansfield, MA 02048 Tel: 508-822-9300

Date Rec'd in Lab: 12/23/19 ALPHA Job #: L1961521

Client Information
 Client: CREORE ASSOCIATES
 Address: 776 MAIN ST
WESTBROOK ME 04092
 Phone: 207-828-1276
 Email: Sforke@creorellc.com
vandenbergs@creorellc.com

Additional Project Information:
TOMBARIELLO SUPPLEMENTAL SUB SURFACE INVESTIGATION

Project Information
 Project Name: TOMBARIELLO
 Project Location: MA
 Project #: 17001426
 Project Manager: R. VANDENBERG
 ALPHA Quote #:
Turn-Around Time
 Standard RUSH (only confirmed if pre-approved)
 Date Due:

Report Information - Data Deliverables
 ADEX EMAIL

Billing Information
 Same as Client info PO #:

Regulatory Requirements & Project Information Requirements
 Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program Criteria _____

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	SAMPLE INFO Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do	TOTAL # BOTTLES
							Sample Comments		

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
61521-11	SB-14 1'-1.5'	12/23/19	0935	S	S.T
12	SB-14 2'-3'	12/23/19	0937	S	S.T
13	SB-14 3'-4'	12/23/19	0939	S	S.T
14	SB-14 4'-5'	12/23/19	0941	S	S.T
15	SB-14 5'-7'	12/23/19	0943	S	S.T
16	SB-15 1'-1.5'	12/23/19	0955	S	S.T
17	SB-15 2'-3'	12/23/19	0957	S	S.T
18	SB-15 3'-4'	12/23/19	0958	S	S.T
19	SB-15 4'-5'	12/23/19	1000	S	S.T
20	SB-15 5'-7'	12/23/19	1002	S	S.T

Container Type
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteria cup
 C= Cube
 O= Other
 E= Encore
 D= BOD Bottle

Preservative
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type: A
 Preservative: A

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Shay C. Towne</u>	<u>12/23/19 1430</u>	<u>NHSC STORAGE Louisa</u>	<u>12/23/19 1715</u>
<u>Storage locker</u>	<u>12/23 1715</u>	<u>Rob Mauro AM</u>	<u>12/23/19 1715</u>
<u>Rob Mauro</u>	<u>12/23/19 1930</u>	<u>Alana Riggs PM</u>	<u>12/23/19 1930</u>

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
 FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 3 OF 4

8 Walkup Drive
Westboro, MA 01581
Tel: 508-896-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-622-9300

Project Information

Project Name: TOMBARELLO

Project Location: MA

Project #: 17001426

Project Manager: R. VANDEBERG

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due:

Date Rec'd in Lab: 12/23/19

ALPHA Job #: 1961521

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: CREOERE ASSOCIATES

Address: 776 MAIN ST

WESTBROOK ME 04092

Phone: 207-928-1292

Email:

Additional Project Information:

TOMBARELLO SUPPLEMENTAL SUB SURFACE INVESTIGATION

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

ANALYSIS		SAMPLE INFO	
VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 824.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	Filtration	<input type="checkbox"/> Field
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8	<input type="checkbox"/> Lab to do	
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	Preservation	<input type="checkbox"/> Lab to do
<input type="checkbox"/> PCB	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		
<u>Pb - 6020A</u>			
TOTAL # BOTTLES			

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
61521-21	SB-12 1'-1.5'	12/23/19	1030	S	S.T.
22	SB-12 2'-3'	12/23/19	1032	S	S.T.
23	SB-12 3'-4'	12/23/19	1035	S	S.T.
24	SB-12 4'-5'	12/23/19	1037	S	S.T.
25	SB-12 5'-7'	12/27/19	1040	S	S.T.
26	SB-10	12/23/19	1120	S	C.B.
27	SB-8	12/23/19	1145	S	C.B.
28	SB-DUP-7	12/23/19	1147	S	C.B.
29	SB-7	12/23/19	1205	S	C.B.
30	SB-6	12/23/19	1225	S	C.B.

Container Type	Preservative	Container Type	A	G
P= Plastic A= Amber glass V= Vial G= Glass B= Bacteria cup C= Cube O= Other E= Encore D= BOD Bottle	A= None B= HCl C= HNO ₃ D= H ₂ SO ₄ E= NaOH F= MeOH G= NaHSO ₄ H= Na ₂ S ₂ O ₃ I= Ascorbic Acid J= NH ₄ Cl K= Zn Acetate O= Other	Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Stacy Spence</u>	<u>12/23/19 1430</u>	<u>NH SC STIMUS LIVER</u>	
<u>Storage locker</u>	<u>12/23/19 1715</u>	<u>Rob Morito AAL</u>	<u>12/23/19 1715</u>
<u>Rob Morito</u>	<u>12/23/19 1930</u>	<u>Alissa King</u>	<u>12/23/19 1930</u>

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FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 4 OF 4

Date Rec'd in Lab: 12/23/19

ALPHA Job #: L1961521

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: TOMBARELLO

Project Location: MA

Project #: 1700142L

Project Manager: R. VANDENBERG

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: CREDERE ASSOCIATES

Address: 776 MAIN ST
WEST BROOK MA

Phone: 207-828-1272

Email: sfoote@credere.com
rvandenberg@credere.com

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due:

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods

Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

Yes No GW1 Standards (Info Required for Metals & EPH with Targets)

Yes No NPDES RGP

Other State /Fed Program _____ Criteria _____

Additional Project Information:

TOMBARELLO SUPPLEMENTAL SUB SURFACE INVESTIGATION

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	TOTAL # BOTTLES
	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15		SAMPLE INFO
METALS: <input type="checkbox"/> RCRAS <input type="checkbox"/> RCRAS <input type="checkbox"/> RCP 15		
EPH: <input checked="" type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		Filtration
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		<input type="checkbox"/> Field
PCB: <input type="checkbox"/> PEST		<input type="checkbox"/> Lab to do
TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		Preservation
<u>Pb 6020A</u>		<input type="checkbox"/> Lab to do
		Sample Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
<u>G1521-31</u>	<u>SB-9</u>	<u>12/23/19</u>	<u>1245</u>	<u>S</u>	<u>C.B.</u>
<u>32</u>	<u>SB-5</u>	<u>12/23/19</u>	<u>1250</u>	<u>S</u>	<u>C.B.</u>

- Container Type**
- P= Plastic
 - A= Amber glass
 - V= Vial
 - G= Glass
 - B= Bacteria cup
 - C= Cube
 - O= Other
 - E= Encore
 - D= BOD Bottle
- Preservative**
- A= None
 - B= HCl
 - C= HNO₃
 - D= H₂SO₄
 - E= NaOH
 - F= MeOH
 - G= NaHSO₄
 - H= Na₂S₂O₃
 - I= Ascorbic Acid
 - J= NH₄Cl
 - K= Zn Acetate
 - O= Other

Container Type	A	G
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Stacy Pen</u>	<u>12/23/19 1430</u>	<u>NHSC STORAGE LOCKER</u>	<u>12/23/19 1715</u>
<u>Stacy Pen</u>	<u>12/23/19 1715</u>	<u>Rob Maersto AM</u>	<u>12/23/19 1715</u>
<u>Rob Maersto</u>	<u>12/23/19 1930</u>	<u>Alana Krupp AM</u>	<u>12/23/19 1930</u>

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



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 2:29 pm, Apr 01, 2020

Analytical Summary

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

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



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

SAMPLE RECEIPT

The following samples were received on March 13, 2020 for the analyses specified on the enclosed Chain of Custody Record.

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

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

Low Level VOA vials were frozen by ESS Laboratory on March 13, 2020 at 20:29.

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

Revision 1 April 1, 2020: This report has been revised to include TPH results for samples 20C0466-01 and 20C0466-03 per the client's request.

Lab Number	Sample Name	Matrix	Analysis
20C0466-01	1802441-Lot1-DISP01	Soil	1010, 1311, 1311/6010C, 6010C, 7.3.3.2, 7.3.4.1, 7471B, 8082A, 8100M, 8260B Low, 8270D, 9045
20C0466-02	1802441-Lot1-DISP02-Grab	Soil	8260B Low
20C0466-03	1802441-Lot1-DISP02-Comp	Soil	1010, 1311, 1311/6010C, 6010C, 7.3.3.2, 7.3.4.1, 7471B, 8082A, 8100M, 8270D, 9045



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

D0C0330-CCV1 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)
 Acetone (21% @ 20%), Chloroethane (21% @ 20%), Chloromethane (22% @ 20%), Tetrahydrofuran (22% @ 20%), Vinyl Chloride (22% @ 20%)

D0C0358-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)
 Bromomethane (22% @ 20%)

DC01838-BSD1 [Relative percent difference for duplicate is outside of criteria \(D+\).](#)
 Acetone (21% @ 20%), Bromomethane (21% @ 20%)

8270D Semi-Volatile Organic Compounds

20C0466-01 [Elevated Method Reporting Limits due to sample matrix \(EL\).](#)

20C0466-03 [Elevated Method Reporting Limits due to sample matrix \(EL\).](#)

D0C0313-CCV1 [Calibration required quadratic regression \(Q\).](#)
 2,4-Dinitrophenol (129% @ 80-120%), Pentachlorophenol (109% @ 80-120%)

D0C0313-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)
 2,4-Dinitrophenol (29% @ 20%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

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

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

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

Prep Methods

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

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



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **20C0466-01 through 20C0466-03**

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

CAM Protocol (check all that apply below):

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

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

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

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

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

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

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

Signature: Laurel Stoddard
Printed Name: Laurel Stoddard

Date: March 20, 2020
Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.61 (2.20)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Barium	171 (2.20)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Cadmium	1.17 (0.44)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Chromium	33.9 (0.88)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Lead	392 (4.41)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Mercury	0.559 (0.033)		7471B		1	MKS	03/17/20 8:33	0.68	40	DC01643
Selenium	ND (4.41)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Silver	ND (0.44)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

1311 TCLP Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	0.281 (0.050)		1311/6010C		1	KJK	03/19/20 20:36	50	50	DC01937



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 8.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1,1-Trichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1,2,2-Tetrachloroethane	0.0059 (0.0014)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1,2-Trichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1-Dichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1-Dichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1-Dichloropropene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,3-Trichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,3-Trichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,4-Trichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,4-Trimethylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dibromo-3-Chloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dibromoethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,3,5-Trimethylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,3-Dichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,3-Dichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,4-Dichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,4-Dioxane	ND (0.0682)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2,2-Dichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2-Butanone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2-Chlorotoluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2-Hexanone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
4-Chlorotoluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
4-Isopropyltoluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
4-Methyl-2-Pentanone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Acetone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Benzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromochloromethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 8.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromodichloromethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromoform	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromomethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Carbon Disulfide	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Carbon Tetrachloride	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chloroethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chloroform	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chloromethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
cis-1,2-Dichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
cis-1,3-Dichloropropene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Dibromochloromethane	ND (0.0014)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Dibromomethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Dichlorodifluoromethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Diethyl Ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Di-isopropyl ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Ethyl tertiary-butyl ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Ethylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Hexachlorobutadiene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Isopropylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Methyl tert-Butyl Ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Methylene Chloride	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Naphthalene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
n-Butylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
n-Propylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
sec-Butylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Styrene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
tert-Butylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Tertiary-amyl methyl ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Tetrachloroethene	0.0089 (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Tetrahydrofuran	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Toluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
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Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 8.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
trans-1,2-Dichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
trans-1,3-Dichloropropene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Trichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Trichlorofluoromethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Vinyl Chloride	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Xylene O	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Xylene P,M	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Xylenes (Total)	ND (0.00682)		8260B Low		1	03/18/20 20:39		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>89 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 3/17/20 14:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1221	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1232	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1242	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1248	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1254	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1260	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1262	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1268	ND (0.06)		8082A		1	03/18/20 21:32		DC01701

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	65 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	67 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	89 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 19.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: CAD
Prepared: 3/24/20 14:49

8100M Total Petroleum Hydrocarbons

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



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,2,4-Trichlorobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
1,2-Dichlorobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
1,3-Dichlorobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
1,4-Dichlorobenzene	ND (0.378)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4,5-Trichlorophenol	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4,6-Trichlorophenol	ND (0.369)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dichlorophenol	ND (0.374)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dimethylphenol	ND (0.338)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dinitrophenol	ND (2.51)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dinitrotoluene	ND (0.482)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,6-Dinitrotoluene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Chloronaphthalene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Chlorophenol	ND (0.423)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Methylnaphthalene	ND (0.324)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Methylphenol	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Nitrophenol	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
3,3'-Dichlorobenzidine	ND (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
3+4-Methylphenol	ND (3.00)		8270D		2	03/19/20 2:54	D0C0313	DC01609
4-Bromophenyl-phenylether	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
4-Chloroaniline	ND (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
4-Nitrophenol	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Acenaphthene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Acenaphthylene	ND (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Acetophenone	ND (3.00)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Aniline	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Anthracene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Azobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(a)anthracene	2.28 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(a)pyrene	2.52 (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(b)fluoranthene	2.42 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(g,h,i)perylene	1.75 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Benzo(k)fluoranthene	1.72 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
bis(2-Chloroethoxy)methane	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
bis(2-Chloroethyl)ether	ND (0.405)		8270D		2	03/19/20 2:54	D0C0313	DC01609
bis(2-chloroisopropyl)Ether	ND (0.401)		8270D		2	03/19/20 2:54	D0C0313	DC01609
bis(2-Ethylhexyl)phthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Butylbenzylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Chrysene	2.30 (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Dibenzo(a,h)Anthracene	0.575 (0.230)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Dibenzofuran	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Diethylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Dimethylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Di-n-butylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Di-n-octylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Fluoranthene	4.54 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Fluorene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Hexachlorobenzene	ND (0.252)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Hexachlorobutadiene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Hexachloroethane	ND (0.378)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Indeno(1,2,3-cd)Pyrene	1.50 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Isophorone	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Naphthalene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Nitrobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
N-Nitrosodimethylamine	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Pentachlorophenol	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Phenanthrene	2.43 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Phenol	ND (0.365)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Pyrene	4.39 (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>56 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>77 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>62 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>65 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

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



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Corrosivity (pH)	7.75 (N/A)		9045		1	DEL	03/13/20 20:45	S.U.	DC01326
Corrosivity (pH) Sample Temp	Soil pH measured in water at 19.6 °C.								
Flashpoint	> 200 (N/A)		1010		1	CCP	03/16/20 13:30	°F	DC01620
Reactive Cyanide	ND (2.0)		7.3.3.2		1	EEM	03/16/20 10:58	mg/kg	DC01613
Reactive Sulfide	ND (2.0)		7.3.4.1		1	EEM	03/16/20 10:58	mg/kg	DC01613



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP01
Date Sampled: 03/12/20 08:40
Percent Solids: 88
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-01
Sample Matrix: Soil
Units: °C
Analyst: MKS
Prepared: 3/18/20 20:15

TCLP Extraction by 1311

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Batch</u>
Temperature (Min C)	19.8 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Max C)	21.4 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Range)	Temperature is not within 23 +/-2 °C. (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Grab
Date Sampled: 03/12/20 08:50
Percent Solids: 93
Initial Volume: 8.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1,1-Trichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1,2,2-Tetrachloroethane	ND (0.0013)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1,2-Trichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1-Dichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1-Dichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1-Dichloropropene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,3-Trichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,3-Trichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,4-Trichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,4-Trimethylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dibromo-3-Chloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dibromoethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,3,5-Trimethylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,3-Dichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,3-Dichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,4-Dichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,4-Dioxane	ND (0.0642)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2,2-Dichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2-Butanone	0.0154 (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2-Chlorotoluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2-Hexanone	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
4-Chlorotoluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
4-Isopropyltoluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
4-Methyl-2-Pentanone	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Acetone	0.123 (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Benzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromochloromethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Grab
Date Sampled: 03/12/20 08:50
Percent Solids: 93
Initial Volume: 8.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromodichloromethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromoform	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromomethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Carbon Disulfide	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Carbon Tetrachloride	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chloroethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chloroform	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chloromethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
cis-1,2-Dichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
cis-1,3-Dichloropropene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Dibromochloromethane	ND (0.0013)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Dibromomethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Dichlorodifluoromethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Diethyl Ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Di-isopropyl ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Ethyl tertiary-butyl ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Ethylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Hexachlorobutadiene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Isopropylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Methyl tert-Butyl Ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Methylene Chloride	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Naphthalene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
n-Butylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
n-Propylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
sec-Butylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Styrene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
tert-Butylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Tertiary-amyl methyl ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Tetrachloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Tetrahydrofuran	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Toluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Grab
Date Sampled: 03/12/20 08:50
Percent Solids: 93
Initial Volume: 8.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
trans-1,2-Dichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
trans-1,3-Dichloropropene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Trichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Trichlorofluoromethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Vinyl Chloride	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Xylene O	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Xylene P,M	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Xylenes (Total)	ND (0.00642)		8260B Low		1	03/19/20 16:58		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>109 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>82 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>112 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.93 (2.24)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Barium	57.3 (2.24)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Cadmium	ND (0.45)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Chromium	15.6 (0.90)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Lead	185 (4.48)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Mercury	0.059 (0.027)		7471B		1	MKS	03/17/20 8:35	0.8	40	DC01643
Selenium	ND (4.48)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Silver	ND (0.45)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

1311 TCLP Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	1.26 (0.050)		1311/6010C		1	KJK	03/19/20 21:08	50	50	DC01937



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 3/17/20 14:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1221	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1232	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1242	0.1 (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1248	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1254	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1260	0.06 (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1262	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1268	ND (0.05)		8082A		1	03/19/20 13:03		DC01930

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	70 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	86 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 19.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: CAD
Prepared: 3/24/20 14:49

8100M Total Petroleum Hydrocarbons

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



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,2,4-Trichlorobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
1,2-Dichlorobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
1,3-Dichlorobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
1,4-Dichlorobenzene	ND (0.173)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4,5-Trichlorophenol	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4,6-Trichlorophenol	ND (0.169)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dichlorophenol	ND (0.171)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dimethylphenol	ND (0.155)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dinitrophenol	ND (1.15)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dinitrotoluene	ND (0.221)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,6-Dinitrotoluene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Chloronaphthalene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Chlorophenol	ND (0.194)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Methylnaphthalene	0.298 (0.148)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Methylphenol	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Nitrophenol	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
3,3'-Dichlorobenzidine	ND (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
3+4-Methylphenol	ND (1.38)		8270D		2	03/19/20 3:20	D0C0313	DC01609
4-Bromophenyl-phenylether	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
4-Chloroaniline	ND (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
4-Nitrophenol	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Acenaphthene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Acenaphthylene	1.40 (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Acetophenone	ND (1.38)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Aniline	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Anthracene	2.30 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Azobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(a)anthracene	5.58 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(a)pyrene	5.77 (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(b)fluoranthene	4.97 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(g,h,i)perylene	3.21 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Benzo(k)fluoranthene	4.00 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
bis(2-Chloroethoxy)methane	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
bis(2-Chloroethyl)ether	ND (0.186)		8270D		2	03/19/20 3:20	D0C0313	DC01609
bis(2-chloroisopropyl)Ether	ND (0.184)		8270D		2	03/19/20 3:20	D0C0313	DC01609
bis(2-Ethylhexyl)phthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Butylbenzylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Chrysene	5.41 (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Dibenzo(a,h)Anthracene	1.16 (0.105)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Dibenzofuran	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Diethylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Dimethylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Di-n-butylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Di-n-octylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Fluoranthene	11.1 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Fluorene	0.826 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Hexachlorobenzene	ND (0.115)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Hexachlorobutadiene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Hexachloroethane	ND (0.173)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Indeno(1,2,3-cd)Pyrene	3.07 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Isophorone	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Naphthalene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Nitrobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
N-Nitrosodimethylamine	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Pentachlorophenol	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Phenanthrene	8.30 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Phenol	ND (0.167)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Pyrene	10.8 (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	49 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	73 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	54 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	57 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 3/16/20 10:40

8270D Semi-Volatile Organic Compounds

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



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Corrosivity (pH)	7.15 (N/A)		9045		1	DEL	03/13/20 20:45	S.U.	DC01326
Corrosivity (pH) Sample Temp	Soil pH measured in water at 19.3 °C.								
Flashpoint	> 200 (N/A)		1010		1	CCP	03/16/20 13:30	°F	DC01620
Reactive Cyanide	ND (2.0)		7.3.3.2		1	EEM	03/16/20 10:58	mg/kg	DC01613
Reactive Sulfide	ND (2.0)		7.3.4.1		1	EEM	03/16/20 10:58	mg/kg	DC01613



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tombarello Site Investigation
Client Sample ID: 1802441-Lot1-DISP02-Comp
Date Sampled: 03/12/20 11:30
Percent Solids: 93
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 20C0466
ESS Laboratory Sample ID: 20C0466-03
Sample Matrix: Soil
Units: °C
Analyst: MKS
Prepared: 3/18/20 20:15

TCLP Extraction by 1311

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Batch</u>
Temperature (Min C)	19.8 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Max C)	21.4 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Range)	Temperature is not within 23 +/-2 °C. (N/A)							



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

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

Batch DC01642 - 3050B

Blank

Arsenic	ND	2.50	mg/kg wet
Barium	ND	2.50	mg/kg wet
Cadmium	ND	0.50	mg/kg wet
Chromium	ND	1.00	mg/kg wet
Lead	ND	5.00	mg/kg wet
Selenium	ND	5.00	mg/kg wet
Silver	ND	0.50	mg/kg wet

LCS

Arsenic	187	7.69	mg/kg wet	202.0	93	80-120
Barium	320	7.69	mg/kg wet	343.0	93	80-120
Cadmium	128	1.54	mg/kg wet	149.0	86	80-120
Chromium	170	3.08	mg/kg wet	182.0	94	80-120
Lead	318	15.4	mg/kg wet	333.0	95	80-120
Selenium	158	15.4	mg/kg wet	169.0	93	80-120
Silver	45.2	1.54	mg/kg wet	48.90	92	80-120

LCS Dup

Arsenic	194	8.20	mg/kg wet	202.0	96	80-120	4	20
Barium	341	8.20	mg/kg wet	343.0	100	80-120	7	20
Cadmium	135	1.64	mg/kg wet	149.0	91	80-120	6	20
Chromium	176	3.28	mg/kg wet	182.0	97	80-120	3	20
Lead	333	16.4	mg/kg wet	333.0	100	80-120	5	20
Selenium	162	16.4	mg/kg wet	169.0	96	80-120	2	20
Silver	45.2	1.64	mg/kg wet	48.90	92	80-120	0.1	20

Batch DC01643 - 7471B

Blank

Mercury	ND	0.033	mg/kg wet
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LCS

Mercury	9.60	0.550	mg/kg wet	7.760	124	71-125
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LCS Dup

Mercury	9.15	0.574	mg/kg wet	7.760	118	71-125	5	20
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1311 TCLP Metals

Batch DC01937 - 3005A_TCLP

Blank

Lead	ND	0.050	mg/L
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LCS

Lead	0.469	0.050	mg/L	0.5000	94	80-120
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LCS Dup

Lead	0.472	0.050	mg/L	0.5000	94	80-120	0.7	20
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5035/8260B Volatile Organic Compounds / Low Level



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	0.0292	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0481		mg/kg wet	0.05000		96	70-130			
Surrogate: 4-Bromofluorobenzene	0.0448		mg/kg wet	0.05000		90	70-130			
Surrogate: Dibromofluoromethane	0.0463		mg/kg wet	0.05000		93	70-130			
Surrogate: Toluene-d8	0.0499		mg/kg wet	0.05000		100	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,1,1-Trichloroethane	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
1,1,2,2-Tetrachloroethane	0.0459	0.0020	mg/kg wet	0.05000		92	70-130			
1,1,2-Trichloroethane	0.0425	0.0050	mg/kg wet	0.05000		85	70-130			
1,1-Dichloroethane	0.0414	0.0050	mg/kg wet	0.05000		83	70-130			
1,1-Dichloroethene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
1,1-Dichloropropene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,3-Trichlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
1,2,3-Trichloropropane	0.0421	0.0050	mg/kg wet	0.05000		84	70-130			
1,2,4-Trichlorobenzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,4-Trimethylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dibromo-3-Chloropropane	0.0402	0.0050	mg/kg wet	0.05000		80	70-130			
1,2-Dibromoethane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

1,2-Dichlorobenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dichloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	70-130			
1,2-Dichloropropane	0.0419	0.0050	mg/kg wet	0.05000		84	70-130			
1,3,5-Trimethylbenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,3-Dichlorobenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,3-Dichloropropane	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
1,4-Dichlorobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,4-Dioxane	0.858	0.100	mg/kg wet	1.000		86	70-130			
2,2-Dichloropropane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
2-Butanone	0.201	0.0100	mg/kg wet	0.2500		80	70-130			
2-Chlorotoluene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
2-Hexanone	0.214	0.0100	mg/kg wet	0.2500		86	70-130			
4-Chlorotoluene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
4-Isopropyltoluene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
4-Methyl-2-Pentanone	0.208	0.0100	mg/kg wet	0.2500		83	70-130			
Acetone	0.174	0.0100	mg/kg wet	0.2500		70	70-130			
Benzene	0.0433	0.0050	mg/kg wet	0.05000		87	70-130			
Bromobenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Bromochloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Bromodichloromethane	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
Bromoform	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
Bromomethane	0.0398	0.0100	mg/kg wet	0.05000		80	70-130			
Carbon Disulfide	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
Carbon Tetrachloride	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Chlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Chloroethane	0.0373	0.0100	mg/kg wet	0.05000		75	70-130			
Chloroform	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
Chloromethane	0.0369	0.0100	mg/kg wet	0.05000		74	70-130			
cis-1,2-Dichloroethene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
cis-1,3-Dichloropropene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
Dibromochloromethane	0.0452	0.0020	mg/kg wet	0.05000		90	70-130			
Dibromomethane	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
Dichlorodifluoromethane	0.0454	0.0100	mg/kg wet	0.05000		91	70-130			
Diethyl Ether	0.0412	0.0050	mg/kg wet	0.05000		82	70-130			
Di-isopropyl ether	0.0402	0.0050	mg/kg wet	0.05000		80	70-130			
Ethyl tertiary-butyl ether	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
Ethylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
Hexachlorobutadiene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
Isopropylbenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Methyl tert-Butyl Ether	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Methylene Chloride	0.0463	0.0100	mg/kg wet	0.05000		93	70-130			
Naphthalene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
n-Butylbenzene	0.0398	0.0050	mg/kg wet	0.05000		80	70-130			
n-Propylbenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
sec-Butylbenzene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

Styrene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
tert-Butylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Tertiary-amyl methyl ether	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
Tetrachloroethene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Tetrahydrofuran	0.0374	0.0050	mg/kg wet	0.05000		75	70-130			
Toluene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
trans-1,2-Dichloroethene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
trans-1,3-Dichloropropene	0.0424	0.0050	mg/kg wet	0.05000		85	70-130			
Trichloroethene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
Trichlorofluoromethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Vinyl Chloride	0.0368	0.0100	mg/kg wet	0.05000		74	70-130			
Xylene O	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Xylene P,M	0.0946	0.0100	mg/kg wet	0.1000		95	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0472		mg/kg wet	0.05000		94	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/kg wet	0.05000		97	70-130			
Surrogate: Dibromofluoromethane	0.0482		mg/kg wet	0.05000		96	70-130			
Surrogate: Toluene-d8	0.0469		mg/kg wet	0.05000		94	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	11	20	
1,1,1-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	11	20	
1,1,2,2-Tetrachloroethane	0.0495	0.0020	mg/kg wet	0.05000		99	70-130	8	20	
1,1,2-Trichloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	8	20	
1,1-Dichloroethane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	10	20	
1,1-Dichloroethene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	9	20	
1,1-Dichloropropene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	10	20	
1,2,3-Trichlorobenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	12	20	
1,2,3-Trichloropropane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	9	20	
1,2,4-Trichlorobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	10	20	
1,2,4-Trimethylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	9	20	
1,2-Dibromo-3-Chloropropane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	8	20	
1,2-Dibromoethane	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	12	20	
1,2-Dichlorobenzene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	6	20	
1,2-Dichloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	9	20	
1,2-Dichloropropane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	8	20	
1,3,5-Trimethylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	8	20	
1,3-Dichlorobenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	6	20	
1,3-Dichloropropane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	12	20	
1,4-Dichlorobenzene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	7	20	
1,4-Dioxane	0.904	0.100	mg/kg wet	1.000		90	70-130	5	20	
2,2-Dichloropropane	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	8	20	
2-Butanone	0.222	0.0100	mg/kg wet	0.2500		89	70-130	10	20	
2-Chlorotoluene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	6	20	
2-Hexanone	0.249	0.0100	mg/kg wet	0.2500		100	70-130	15	20	
4-Chlorotoluene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	7	20	
4-Isopropyltoluene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	9	20	



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

4-Methyl-2-Pentanone	0.230	0.0100	mg/kg wet	0.2500		92	70-130	10	20	
Acetone	0.216	0.0100	mg/kg wet	0.2500		86	70-130	21	20	D+
Benzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	9	20	
Bromobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	7	20	
Bromochloromethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	8	20	
Bromodichloromethane	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	9	20	
Bromoform	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	11	20	
Bromomethane	0.0492	0.0100	mg/kg wet	0.05000		98	70-130	21	20	D+
Carbon Disulfide	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	10	20	
Carbon Tetrachloride	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	9	20	
Chlorobenzene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	11	20	
Chloroethane	0.0413	0.0100	mg/kg wet	0.05000		83	70-130	10	20	
Chloroform	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	10	20	
Chloromethane	0.0412	0.0100	mg/kg wet	0.05000		82	70-130	11	20	
cis-1,2-Dichloroethene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	9	20	
cis-1,3-Dichloropropene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	8	20	
Dibromochloromethane	0.0509	0.0020	mg/kg wet	0.05000		102	70-130	12	20	
Dibromomethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	8	20	
Dichlorodifluoromethane	0.0506	0.0100	mg/kg wet	0.05000		101	70-130	11	20	
Diethyl Ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	8	20	
Di-isopropyl ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	10	20	
Ethyl tertiary-butyl ether	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	9	20	
Ethylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	10	20	
Hexachlorobutadiene	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	5	20	
Isopropylbenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	7	20	
Methyl tert-Butyl Ether	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	7	20	
Methylene Chloride	0.0483	0.0100	mg/kg wet	0.05000		97	70-130	4	20	
Naphthalene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	15	20	
n-Butylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	13	20	
n-Propylbenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	8	20	
sec-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	8	20	
Styrene	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	12	20	
tert-Butylbenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	8	20	
Tertiary-amyl methyl ether	0.0600	0.0050	mg/kg wet	0.05000		120	70-130	8	20	
Tetrachloroethene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	13	20	
Tetrahydrofuran	0.0425	0.0050	mg/kg wet	0.05000		85	70-130	13	20	
Toluene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	8	20	
trans-1,2-Dichloroethene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	10	20	
trans-1,3-Dichloropropene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	8	20	
Trichloroethene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	11	20	
Trichlorofluoromethane	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	8	20	
Vinyl Chloride	0.0415	0.0100	mg/kg wet	0.05000		83	70-130	12	20	
Xylene O	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	10	20	
Xylene P,M	0.105	0.0100	mg/kg wet	0.1000		105	70-130	10	20	
Surrogate: 1,2-Dichloroethane-d4	0.0471		mg/kg wet	0.05000		94	70-130			



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01838 - 5035

Surrogate: 4-Bromofluorobenzene	0.0493		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0481		mg/kg wet	0.05000		96	70-130			
Surrogate: Toluene-d8	0.0485		mg/kg wet	0.05000		97	70-130			

Batch DC01938 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethene	ND	0.0050	mg/kg wet
1,1-Dichloropropene	ND	0.0050	mg/kg wet
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet
1,2-Dibromoethane	ND	0.0050	mg/kg wet
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet
1,2-Dichloroethane	ND	0.0050	mg/kg wet
1,2-Dichloropropane	ND	0.0050	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet
1,3-Dichloropropane	ND	0.0050	mg/kg wet
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet
1,4-Dioxane	ND	0.100	mg/kg wet
2,2-Dichloropropane	ND	0.0050	mg/kg wet
2-Butanone	ND	0.0100	mg/kg wet
2-Chlorotoluene	ND	0.0050	mg/kg wet
2-Hexanone	ND	0.0100	mg/kg wet
4-Chlorotoluene	ND	0.0050	mg/kg wet
4-Isopropyltoluene	ND	0.0050	mg/kg wet
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet
Acetone	ND	0.0100	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Carbon Disulfide	ND	0.0050	mg/kg wet
Carbon Tetrachloride	ND	0.0050	mg/kg wet
Chlorobenzene	ND	0.0050	mg/kg wet
Chloroethane	ND	0.0100	mg/kg wet



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0551		mg/kg wet	0.05000		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/kg wet	0.05000		98	70-130			
Surrogate: Dibromofluoromethane	0.0531		mg/kg wet	0.05000		106	70-130			
Surrogate: Toluene-d8	0.0486		mg/kg wet	0.05000		97	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
1,1,1-Trichloroethane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,1,2,2-Tetrachloroethane	0.0478	0.0020	mg/kg wet	0.05000		96	70-130			
1,1,2-Trichloroethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,1-Dichloroethene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,1-Dichloropropene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
1,2,3-Trichlorobenzene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			



CERTIFICATE OF ANALYSIS

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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

1,2,3-Trichloropropane	0.0422	0.0050	mg/kg wet	0.05000		84	70-130			
1,2,4-Trichlorobenzene	0.0431	0.0050	mg/kg wet	0.05000		86	70-130			
1,2,4-Trimethylbenzene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dibromo-3-Chloropropane	0.0387	0.0050	mg/kg wet	0.05000		77	70-130			
1,2-Dibromoethane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichlorobenzene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichloroethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
1,2-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
1,3,5-Trimethylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichlorobenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
1,3-Dichloropropane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,4-Dichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,4-Dioxane	0.850	0.100	mg/kg wet	1.000		85	70-130			
2,2-Dichloropropane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
2-Butanone	0.249	0.0100	mg/kg wet	0.2500		100	70-130			
2-Chlorotoluene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
2-Hexanone	0.221	0.0100	mg/kg wet	0.2500		88	70-130			
4-Chlorotoluene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
4-Isopropyltoluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
4-Methyl-2-Pentanone	0.236	0.0100	mg/kg wet	0.2500		95	70-130			
Acetone	0.244	0.0100	mg/kg wet	0.2500		97	70-130			
Benzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Bromobenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
Bromochloromethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Bromodichloromethane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
Bromoform	0.0379	0.0050	mg/kg wet	0.05000		76	70-130			
Bromomethane	0.0578	0.0100	mg/kg wet	0.05000		116	70-130			
Carbon Disulfide	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Carbon Tetrachloride	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Chlorobenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Chloroethane	0.0494	0.0100	mg/kg wet	0.05000		99	70-130			
Chloroform	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
Chloromethane	0.0472	0.0100	mg/kg wet	0.05000		94	70-130			
cis-1,2-Dichloroethene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
cis-1,3-Dichloropropene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Dibromochloromethane	0.0440	0.0020	mg/kg wet	0.05000		88	70-130			
Dibromomethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Dichlorodifluoromethane	0.0504	0.0100	mg/kg wet	0.05000		101	70-130			
Diethyl Ether	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Di-isopropyl ether	0.0513	0.0050	mg/kg wet	0.05000		103	70-130			
Ethyl tertiary-butyl ether	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Ethylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Hexachlorobutadiene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Isopropylbenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
Methyl tert-Butyl Ether	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

Methylene Chloride	0.0472	0.0100	mg/kg wet	0.05000		94	70-130			
Naphthalene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
n-Butylbenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
n-Propylbenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
sec-Butylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Styrene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
tert-Butylbenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Tetrachloroethene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
Tetrahydrofuran	0.0434	0.0050	mg/kg wet	0.05000		87	70-130			
Toluene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
trans-1,2-Dichloroethene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
trans-1,3-Dichloropropene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Trichloroethene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Trichlorofluoromethane	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
Vinyl Chloride	0.0521	0.0100	mg/kg wet	0.05000		104	70-130			
Xylene O	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Xylene P,M	0.0971	0.0100	mg/kg wet	0.1000		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0514		mg/kg wet	0.05000		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/kg wet	0.05000		100	70-130			
Surrogate: Dibromofluoromethane	0.0512		mg/kg wet	0.05000		102	70-130			
Surrogate: Toluene-d8	0.0496		mg/kg wet	0.05000		99	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	4	20	
1,1,1-Trichloroethane	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.0505	0.0020	mg/kg wet	0.05000		101	70-130	5	20	
1,1,2-Trichloroethane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	6	20	
1,1-Dichloroethane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
1,1-Dichloroethene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
1,1-Dichloropropene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	3	20	
1,2,3-Trichlorobenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	7	20	
1,2,3-Trichloropropane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	6	20	
1,2,4-Trichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	7	20	
1,2,4-Trimethylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	4	20	
1,2-Dibromo-3-Chloropropane	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	7	20	
1,2-Dibromoethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	5	20	
1,2-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	6	20	
1,2-Dichloroethane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	4	20	
1,2-Dichloropropane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	2	20	
1,3,5-Trimethylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	5	20	
1,3-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	4	20	
1,3-Dichloropropane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	5	20	
1,4-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	6	20	
1,4-Dioxane	0.942	0.100	mg/kg wet	1.000		94	70-130	10	20	
2,2-Dichloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	3	20	



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

2-Butanone	0.259	0.0100	mg/kg wet	0.2500		104	70-130	4	20	
2-Chlorotoluene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	3	20	
2-Hexanone	0.227	0.0100	mg/kg wet	0.2500		91	70-130	3	20	
4-Chlorotoluene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	4	20	
4-Isopropyltoluene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	3	20	
4-Methyl-2-Pentanone	0.246	0.0100	mg/kg wet	0.2500		98	70-130	4	20	
Acetone	0.240	0.0100	mg/kg wet	0.2500		96	70-130	1	20	
Benzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
Bromobenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	6	20	
Bromochloromethane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	6	20	
Bromodichloromethane	0.0562	0.0050	mg/kg wet	0.05000		112	70-130	5	20	
Bromoform	0.0401	0.0050	mg/kg wet	0.05000		80	70-130	6	20	
Bromomethane	0.0605	0.0100	mg/kg wet	0.05000		121	70-130	5	20	
Carbon Disulfide	0.0541	0.0050	mg/kg wet	0.05000		108	70-130	2	20	
Carbon Tetrachloride	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
Chlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	4	20	
Chloroethane	0.0505	0.0100	mg/kg wet	0.05000		101	70-130	2	20	
Chloroform	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	3	20	
Chloromethane	0.0484	0.0100	mg/kg wet	0.05000		97	70-130	2	20	
cis-1,2-Dichloroethene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	4	20	
cis-1,3-Dichloropropene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	4	20	
Dibromochloromethane	0.0466	0.0020	mg/kg wet	0.05000		93	70-130	6	20	
Dibromomethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	6	20	
Dichlorodifluoromethane	0.0512	0.0100	mg/kg wet	0.05000		102	70-130	2	20	
Diethyl Ether	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	5	20	
Di-isopropyl ether	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	4	20	
Ethyl tertiary-butyl ether	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	5	20	
Ethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	2	20	
Hexachlorobutadiene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	3	20	
Isopropylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	3	20	
Methyl tert-Butyl Ether	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	5	20	
Methylene Chloride	0.0492	0.0100	mg/kg wet	0.05000		98	70-130	4	20	
Naphthalene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	8	20	
n-Butylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	4	20	
n-Propylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	3	20	
sec-Butylbenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	3	20	
Styrene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	3	20	
tert-Butylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	4	20	
Tertiary-amyl methyl ether	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	5	20	
Tetrachloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	4	20	
Tetrahydrofuran	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	4	20	
Toluene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
trans-1,2-Dichloroethene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
trans-1,3-Dichloropropene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	6	20	
Trichloroethene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	2	20	



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DC01938 - 5035

Trichlorofluoromethane	0.0547	0.0050	mg/kg wet	0.05000		109	70-130	1	20	
Vinyl Chloride	0.0525	0.0100	mg/kg wet	0.05000		105	70-130	0.8	20	
Xylene O	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	2	20	
Xylene P,M	0.101	0.0100	mg/kg wet	0.1000		101	70-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/kg wet	0.05000		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0507		mg/kg wet	0.05000		101	70-130			
Surrogate: Toluene-d8	0.0496		mg/kg wet	0.05000		99	70-130			

8082A Polychlorinated Biphenyls (PCB)

Batch DC01701 - 3540C

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

Surrogate: Decachlorobiphenyl	0.0192		mg/kg wet	0.02500		77	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0184		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-xylene	0.0169		mg/kg wet	0.02500		68	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0194		mg/kg wet	0.02500		78	30-150			

LCS										
Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		86	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		89	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140			

Surrogate: Decachlorobiphenyl	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0223		mg/kg wet	0.02500		89	30-150			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
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ESS Laboratory Work Order: 20C0466

Quality Control Data

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

Batch 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	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0220</i>		mg/kg wet	<i>0.02500</i>		<i>88</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0209</i>		mg/kg wet	<i>0.02500</i>		<i>84</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0203</i>		mg/kg wet	<i>0.02500</i>		<i>81</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0222</i>		mg/kg wet	<i>0.02500</i>		<i>89</i>	<i>30-150</i>			

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							
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0198</i>		mg/kg wet	<i>0.02500</i>		<i>79</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0195</i>		mg/kg wet	<i>0.02500</i>		<i>78</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0179</i>		mg/kg wet	<i>0.02500</i>		<i>72</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0208</i>		mg/kg wet	<i>0.02500</i>		<i>83</i>	<i>30-150</i>			

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			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0227</i>		mg/kg wet	<i>0.02500</i>		<i>91</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0221</i>		mg/kg wet	<i>0.02500</i>		<i>88</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0217</i>		mg/kg wet	<i>0.02500</i>		<i>87</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0236</i>		mg/kg wet	<i>0.02500</i>		<i>94</i>	<i>30-150</i>			



CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
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ESS Laboratory Work Order: 20C0466

Quality Control Data

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

Batch DC01930 - 3540C

LCS Dup

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		86	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		88	40-140	3	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		89	40-140	4	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140	4	30	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0219</i>		mg/kg wet	<i>0.02500</i>		<i>87</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0211</i>		mg/kg wet	<i>0.02500</i>		<i>84</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0209</i>		mg/kg wet	<i>0.02500</i>		<i>84</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0230</i>		mg/kg wet	<i>0.02500</i>		<i>92</i>	<i>30-150</i>			

8100M Total Petroleum Hydrocarbons

Batch DC02311 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Hexatriacontane (C36)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	10.0	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							

<i>Surrogate: O-Terphenyl</i>	<i>5.11</i>		mg/kg wet	<i>5.000</i>		<i>102</i>	<i>40-140</i>			
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LCS

Decane (C10)	1.9	0.2	mg/kg wet	2.500		77	40-140			
Docosane (C22)	2.4	0.2	mg/kg wet	2.500		97	40-140			
Dodecane (C12)	2.1	0.2	mg/kg wet	2.500		83	40-140			
Eicosane (C20)	2.4	0.2	mg/kg wet	2.500		96	40-140			
Hexacosane (C26)	2.5	0.2	mg/kg wet	2.500		99	40-140			
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		91	40-140			
Hexatriacontane (C36)	2.4	0.2	mg/kg wet	2.500		97	40-140			
Nonadecane (C19)	2.4	0.2	mg/kg wet	2.500		96	40-140			
Nonane (C9)	1.7	0.2	mg/kg wet	2.500		69	30-140			
Octacosane (C28)	2.5	0.2	mg/kg wet	2.500		99	40-140			
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Tetracosane (C24)	2.5	0.2	mg/kg wet	2.500		98	40-140			
Tetradecane (C14)	2.1	0.2	mg/kg wet	2.500		85	40-140			



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DC02311 - 3546

Total Petroleum Hydrocarbons	32.0	10.0	mg/kg wet	35.00		91	40-140			
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		97	40-140			
<i>Surrogate: O-Terphenyl</i>	<i>5.00</i>		mg/kg wet	<i>5.000</i>		<i>100</i>	<i>40-140</i>			

LCS Dup

Decane (C10)	2.0	0.2	mg/kg wet	2.500		82	40-140	6	25	
Docosane (C22)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Dodecane (C12)	2.2	0.2	mg/kg wet	2.500		87	40-140	5	25	
Eicosane (C20)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	
Hexacosane (C26)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		94	40-140	3	25	
Hexatriacontane (C36)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	
Nonadecane (C19)	2.5	0.2	mg/kg wet	2.500		100	40-140	4	25	
Nonane (C9)	1.8	0.2	mg/kg wet	2.500		74	30-140	6	25	
Octacosane (C28)	2.6	0.2	mg/kg wet	2.500		103	40-140	4	25	
Octadecane (C18)	2.4	0.2	mg/kg wet	2.500		96	40-140	3	25	
Tetracosane (C24)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Tetradecane (C14)	2.2	0.2	mg/kg wet	2.500		89	40-140	4	25	
Total Petroleum Hydrocarbons	33.2	10.0	mg/kg wet	35.00		95	40-140	4	25	
Triacontane (C30)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	
<i>Surrogate: O-Terphenyl</i>	<i>5.07</i>		mg/kg wet	<i>5.000</i>		<i>101</i>	<i>40-140</i>			

8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

Blank

1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.080	mg/kg wet							
1,4-Dichlorobenzene	ND	0.084	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.082	mg/kg wet							
2,4-Dichlorophenol	ND	0.083	mg/kg wet							
2,4-Dimethylphenol	ND	0.075	mg/kg wet							
2,4-Dinitrophenol	ND	0.557	mg/kg wet							
2,4-Dinitrotoluene	ND	0.107	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.094	mg/kg wet							
2-Methylnaphthalene	ND	0.072	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.167	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

4-Chloroaniline	ND	0.167	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.167	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.090	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.089	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.051	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.056	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.084	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	0.667	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.081	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Pyridine	ND	1.67	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.46		mg/kg wet	3.333		74	30-130			
Surrogate: 2,4,6-Tribromophenol	4.47		mg/kg wet	5.000		89	30-130			
Surrogate: 2-Chlorophenol-d4	3.83		mg/kg wet	5.000		77	30-130			
Surrogate: 2-Fluorobiphenyl	2.50		mg/kg wet	3.333		75	30-130			
Surrogate: 2-Fluorophenol	3.66		mg/kg wet	5.000		73	30-130			
Surrogate: Nitrobenzene-d5	2.63		mg/kg wet	3.333		79	30-130			



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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

Surrogate: Phenol-d6	3.82		mg/kg wet	5.000		76	30-130			
Surrogate: p-Terphenyl-d14	3.49		mg/kg wet	3.333		105	30-130			

LCS

1,2,4-Trichlorobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140			
1,2-Dichlorobenzene	2.40	0.333	mg/kg wet	3.333		72	40-140			
1,3-Dichlorobenzene	2.39	0.080	mg/kg wet	3.333		72	40-140			
1,4-Dichlorobenzene	2.37	0.084	mg/kg wet	3.333		71	40-140			
2,4,5-Trichlorophenol	3.19	0.333	mg/kg wet	3.333		96	30-130			
2,4,6-Trichlorophenol	3.06	0.082	mg/kg wet	3.333		92	30-130			
2,4-Dichlorophenol	2.78	0.083	mg/kg wet	3.333		84	30-130			
2,4-Dimethylphenol	2.79	0.075	mg/kg wet	3.333		84	30-130			
2,4-Dinitrophenol	4.22	0.557	mg/kg wet	3.333		126	30-130			
2,4-Dinitrotoluene	3.59	0.107	mg/kg wet	3.333		108	40-140			
2,6-Dinitrotoluene	3.08	0.333	mg/kg wet	3.333		92	40-140			
2-Chloronaphthalene	2.53	0.333	mg/kg wet	3.333		76	40-140			
2-Chlorophenol	2.55	0.094	mg/kg wet	3.333		77	30-130			
2-Methylnaphthalene	2.52	0.072	mg/kg wet	3.333		76	40-140			
2-Methylphenol	2.58	0.333	mg/kg wet	3.333		77	30-130			
2-Nitrophenol	2.67	0.333	mg/kg wet	3.333		80	30-130			
3,3'-Dichlorobenzidine	2.71	0.167	mg/kg wet	3.333		81	40-140			
3+4-Methylphenol	5.37	0.667	mg/kg wet	6.667		80	30-130			
4-Bromophenyl-phenylether	3.18	0.333	mg/kg wet	3.333		95	40-140			
4-Chloroaniline	1.46	0.167	mg/kg wet	3.333		44	40-140			
4-Nitrophenol	3.44	1.67	mg/kg wet	3.333		103	30-130			
Acenaphthene	2.70	0.333	mg/kg wet	3.333		81	40-140			
Acenaphthylene	2.48	0.167	mg/kg wet	3.333		75	40-140			
Acetophenone	2.41	0.667	mg/kg wet	3.333		72	40-140			
Aniline	1.74	1.67	mg/kg wet	3.333		52	40-140			
Anthracene	3.17	0.333	mg/kg wet	3.333		95	40-140			
Azobenzene	3.04	0.333	mg/kg wet	3.333		91	40-140			
Benzo(a)anthracene	3.35	0.333	mg/kg wet	3.333		100	40-140			
Benzo(a)pyrene	3.58	0.167	mg/kg wet	3.333		107	40-140			
Benzo(b)fluoranthene	3.89	0.333	mg/kg wet	3.333		117	40-140			
Benzo(g,h,i)perylene	3.45	0.333	mg/kg wet	3.333		104	40-140			
Benzo(k)fluoranthene	2.94	0.333	mg/kg wet	3.333		88	40-140			
bis(2-Chloroethoxy)methane	2.57	0.333	mg/kg wet	3.333		77	40-140			
bis(2-Chloroethyl)ether	2.55	0.090	mg/kg wet	3.333		77	40-140			
bis(2-chloroisopropyl)Ether	2.47	0.089	mg/kg wet	3.333		74	40-140			
bis(2-Ethylhexyl)phthalate	3.62	0.333	mg/kg wet	3.333		109	40-140			
Butylbenzylphthalate	3.60	0.333	mg/kg wet	3.333		108	40-140			
Chrysene	3.32	0.167	mg/kg wet	3.333		100	40-140			
Dibenzo(a,h)Anthracene	3.70	0.051	mg/kg wet	3.333		111	40-140			
Dibenzofuran	2.77	0.333	mg/kg wet	3.333		83	40-140			
Diethylphthalate	3.18	0.333	mg/kg wet	3.333		95	40-140			



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

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		75	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		79	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	



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch DC01609 - 3546										
4-Bromophenyl-phenylether	3.13	0.333	mg/kg wet	3.333		94	40-140	2	30	
4-Chloroaniline	1.61	0.167	mg/kg wet	3.333		48	40-140	10	30	
4-Nitrophenol	3.37	1.67	mg/kg wet	3.333		101	30-130	2	30	
Acenaphthene	2.66	0.333	mg/kg wet	3.333		80	40-140	1	30	
Acenaphthylene	2.43	0.167	mg/kg wet	3.333		73	40-140	2	30	
Acetophenone	2.26	0.667	mg/kg wet	3.333		68	40-140	6	30	
Aniline	1.68	1.67	mg/kg wet	3.333		50	40-140	4	30	
Anthracene	3.12	0.333	mg/kg wet	3.333		94	40-140	2	30	
Azobenzene	2.98	0.333	mg/kg wet	3.333		89	40-140	2	30	
Benzo(a)anthracene	3.25	0.333	mg/kg wet	3.333		97	40-140	3	30	
Benzo(a)pyrene	3.55	0.167	mg/kg wet	3.333		106	40-140	1	30	
Benzo(b)fluoranthene	3.44	0.333	mg/kg wet	3.333		103	40-140	12	30	
Benzo(g,h,i)perylene	3.40	0.333	mg/kg wet	3.333		102	40-140	2	30	
Benzo(k)fluoranthene	3.34	0.333	mg/kg wet	3.333		100	40-140	13	30	
bis(2-Chloroethoxy)methane	2.44	0.333	mg/kg wet	3.333		73	40-140	5	30	
bis(2-Chloroethyl)ether	2.29	0.090	mg/kg wet	3.333		69	40-140	11	30	
bis(2-chloroisopropyl)Ether	2.23	0.089	mg/kg wet	3.333		67	40-140	10	30	
bis(2-Ethylhexyl)phthalate	3.56	0.333	mg/kg wet	3.333		107	40-140	2	30	
Butylbenzylphthalate	3.51	0.333	mg/kg wet	3.333		105	40-140	3	30	
Chrysene	3.23	0.167	mg/kg wet	3.333		97	40-140	3	30	
Dibenzo(a,h)Anthracene	3.63	0.051	mg/kg wet	3.333		109	40-140	2	30	
Dibenzofuran	2.74	0.333	mg/kg wet	3.333		82	40-140	1	30	
Diethylphthalate	3.16	0.333	mg/kg wet	3.333		95	40-140	0.6	30	
Dimethylphthalate	3.02	0.333	mg/kg wet	3.333		91	40-140	0.9	30	
Di-n-butylphthalate	3.35	0.333	mg/kg wet	3.333		101	40-140	2	30	
Di-n-octylphthalate	3.50	0.333	mg/kg wet	3.333		105	40-140	0.6	30	
Fluoranthene	3.20	0.333	mg/kg wet	3.333		96	40-140	3	30	
Fluorene	3.06	0.333	mg/kg wet	3.333		92	40-140	0.9	30	
Hexachlorobenzene	3.11	0.056	mg/kg wet	3.333		93	40-140	1	30	
Hexachlorobutadiene	2.36	0.333	mg/kg wet	3.333		71	40-140	11	30	
Hexachloroethane	2.14	0.084	mg/kg wet	3.333		64	40-140	12	30	
Indeno(1,2,3-cd)Pyrene	3.56	0.333	mg/kg wet	3.333		107	40-140	1	30	
Isophorone	2.16	0.333	mg/kg wet	3.333		65	40-140	4	30	
Naphthalene	2.30	0.333	mg/kg wet	3.333		69	40-140	7	30	
Nitrobenzene	2.33	0.333	mg/kg wet	3.333		70	40-140	8	30	
N-Nitrosodimethylamine	2.02	0.333	mg/kg wet	3.333		61	40-140	9	30	
Pentachlorophenol	3.67	0.667	mg/kg wet	3.333		110	30-130	2	30	
Phenanthrene	3.04	0.333	mg/kg wet	3.333		91	40-140	2	30	
Phenol	2.55	0.081	mg/kg wet	3.333		77	30-130	8	30	
Pyrene	3.21	0.333	mg/kg wet	3.333		96	40-140	2	30	
Pyridine	1.65	1.67	mg/kg wet	3.333		49	40-140	16	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.22		mg/kg wet	3.333		67	30-130			
Surrogate: 2,4,6-Tribromophenol	5.31		mg/kg wet	5.000		106	30-130			
Surrogate: 2-Chlorophenol-d4	3.61		mg/kg wet	5.000		72	30-130			
Surrogate: 2-Fluorobiphenyl	2.62		mg/kg wet	3.333		79	30-130			



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DC01609 - 3546

Surrogate: 2-Fluorophenol	3.44		mg/kg wet	5.000		69	30-130			
Surrogate: Nitrobenzene-d5	2.50		mg/kg wet	3.333		75	30-130			
Surrogate: Phenol-d6	3.71		mg/kg wet	5.000		74	30-130			
Surrogate: p-Terphenyl-d14	3.46		mg/kg wet	3.333		104	30-130			

Classical Chemistry

Batch DC01613 - General Preparation

Blank

Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							

LCS

Reactive Cyanide	3.8	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	ND	2.0	mg/kg	10.00		0	0-44			

Batch DC01620 - General Preparation

Reference

Flashpoint	81			°F	81.00	100	97.9-102.1			
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CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

Notes and Definitions

- Z18 Temperature is not within 23 +/-2 °C.
- Z-10a Soil pH measured in water at 19.6 °C.
- Z-10 Soil pH measured in water at 19.3 °C.
- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- EL Elevated Method Reporting Limits due to sample matrix (EL).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- CD- Continuing Calibration %Diff/Drift is below control limit (CD-).
- > Greater than.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 20C0466

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

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

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

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

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

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

Massachusetts Potable and Non Potable Water: M-RI002

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

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

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

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

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

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

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

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

Pennsylvania: 68-01752

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

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20C0466

Shipped/Delivered Via: ESS Courier

Date Received: 3/13/2020

Project Due Date: 3/20/2020

Days for Project: 5 Day

- 1. Air bill manifest present? No
Air No.: NA
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
Temp: 3.6 Iced with: Ice
- 5. Was COC signed and dated by client? Yes

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

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

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

13. Are the samples properly preserved? Yes / No
a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
b. Low Level VOA vials frozen: Date: 3/13/20 Time: 7029 By: NA

Sample Receiving Notes:

Lot1-DISP02-grab collection time coc=0850, Label=1130; Lot1-DISP02-Comp collection time coc=1130, label=0850

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

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	23707	Yes	N/A	Yes	VOA Vial	MeOH	
1	23709	Yes	N/A	Yes	VOA Vial	DI Water	
1	23710	Yes	N/A	Yes	VOA Vial	DI Water	
1	23713	Yes	N/A	Yes	8 oz jar	NP	
1	23714	Yes	N/A	Yes	8 oz jar	NP	
2	23708	Yes	N/A	Yes	VOA Vial	MeOH	
2	23711	Yes	N/A	Yes	VOA Vial	DI Water	
2	23712	Yes	N/A	Yes	VOA Vial	DI Water	
3	23717	Yes	N/A	Yes	8 oz jar	NP	
3	23718	Yes	N/A	Yes	8 oz jar	NP	

2nd Review

Were all containers scanned into storage/lab?

Initials GA

- 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?

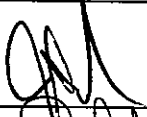
- Yes / No
- Yes / No / NA
- Yes / No / NA
- Yes / No / NA
- Yes / No / NA


ESS Laboratory Sample and Cooler Receipt Checklist


Client: GEI Consultants, Inc. - TB

ESS Project ID: 20C0466

Date Received: 3/13/2020

Completed By:  Date & Time: 3/13/20 2020

Reviewed By:  Date & Time: 3/13/20 2020

Delivered By:  Date & Time: 3/13/20 2020

Chain-of-Custody Record

Laboratory: ESS

Laboratory Job # **20C0466**
(Lab use only)



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

Project Information

Project Name: Former Tombarello

Project Location: Lawrence MA

Project Number: 1802441

Project Manager: L. Lombardo
339.221.3551

Send Report to: Elise Farrington

Send EDD to: labdata@geiconsultants.com

Preservative

MeOH DI H2O None None

Analysis

VOC (High Level)	VOC (Low Level)	SVOCs, RCRA 8 Metals*, Ignitability, Corrosivity, RCN/S	PCBs*	TPH (8100M) <small>L. Lombardo 3/24/2020</small>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Sample Handling

Samples Field Filtered

YES NO NA

Sampled Shipped With Ice

YES NO

MCP PRESUMPTIVE CERTAINTY REQUIRED:

YES NO

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

If Yes, Are Drinking Water Samples Submitted? YES NO NA

If Yes, Have You Met Minimum Field QC Requirements? YES NO NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	VOC (High Level)	VOC (Low Level)	SVOCs, RCRA 8 Metals*, Ignitability, Corrosivity, RCN/S	PCBs*	TPH (8100M) <small>L. Lombardo 3/24/2020</small>						Sample Specific Remarks		
		Date	Time																
1	1802441-Lot1-DISP01	3/12/2020	8:40	SO	5	BRL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
2	1802441-Lot1-DISP02-Grab	3/12/2020	8:50	SO	3	BRL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
3	1802441-Lot1-DISP02-Comp	3/12/2020	11:30	SO	2	BRL			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

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

Turnaround Time (Business days):

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

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

Additional Requirements/Comments/Remarks:

* Manual Soxhlet Extraction for PCBs. Analysis must be performed in accordance with GEI's Site Specific QAPP.

**Run TCLP if 20x Rule Exceeded

Relinquished by: (signature) 1. <i>[Signature]</i>	Date: 3/13/20	Time: 1400	Received by: (signature) <i>[Signature]</i>
Relinquished by: (signature) 2. <i>[Signature]</i>	Date: 3/13/20	Time: 1904	Received by: (signature) 2. <i>[Signature]</i> 3/13/20
Relinquished by: (signature) 3.	Date:	Time:	Received by: (signature) 3.
Relinquished by: (signature) 4.	Date:	Time:	Received by: (signature) 4.

Chain-of-Custody Record

Laboratory: ESS

Laboratory Job # 20C0466
(Lab use only)

Project Information

Page 1 of 8



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

Project Name: Former Tombarello

Project Location: Lawrence MA

Project Number: 1802441

Project Manager: L. Lombardo
339.221.3551

Send Report to: Elise Farrington

Send EDD to: labdata@geiconsultants.com

Preservative

MeOH	DI H2O	None	None						
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Analysis

	VOC(High Level)	VOC (Low Level)	SVOCs, RCRA 8 Metals**, Ignitability, Corrosivity, RCN/IS	PCBs*								
1	x	x	x	x								
2	x	x										
3			x	x								

Sample Handling

Samples Field Filtered
YES NO NA

Sampled Shipped With Ice
YES NO

MCP PRESUMPTIVE CERTAINTY REQUIRED: YES NO

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

If Yes, Are Drinking Water Samples Submitted? YES NO NA

If Yes, Have You Met Minimum Field QC Requirements? YES NO NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	VOC(High Level)	VOC (Low Level)	SVOCs, RCRA 8 Metals**, Ignitability, Corrosivity, RCN/IS	PCBs*											Sample Specific Remarks				
		Date	Time																						
1	1802441-Lot1-DISP01	3/12/2020	8:40	SO	5	BRL	x	x	x	x															
2	1802441-Lot1-DISP02-Grab	3/12/2020	8:50	SO	3	BRL	x	x																	
3	1802441-Lot1-DISP02-Comp	3/12/2020	11:30	SO	2	BRL			x	x															

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

Turnaround Time (Business days):

Normal _____ Other _____

10-Day _____ 7-Day _____

5-Day X 3-Day _____

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

Relinquished by: (signature) 1. <i>[Signature]</i>	Date: 3/12/20	Time: 1400	Received by: (signature) <i>[Signature]</i>
Relinquished by: (signature) 2. <i>[Signature]</i>	Date: 3/12/20	Time: 1904	Received by: (signature) 2. <i>[Signature]</i> 3/13/20
Relinquished by: (signature) 3.	Date:	Time:	Received by: (signature) 3.
Relinquished by: (signature) 4.	Date:	Time:	Received by: (signature) 4.

Additional Requirements/Comments/Remarks:

* Manual Soxhlet Extraction for PCBs. Analysis must be performed in accordance with GEI's Site Specific QAPP.

**Run TCLP if 20x Rule Exceeded