

SUBSURFACE PHASE II ENVIRONMENTAL SITE ASSESSMENT

666, 668, 670 AND 680 AMHERST STREET;
1624, 1628 AND 1634 ELMWOOD AVENUE;
AND 155 MARION STREET
BUFFALO, ERIE COUNTY, NEW YORK

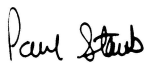
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April 2024

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	BACKGROUND	2
1.1.1	General Site Setting	2
1.1.2	Physical Setting	3
1.1.3	Historical Use	3
1.1.4	Contaminants of Concern	4
1.2	SCOPE.....	4
2.0	FIELD INVESTIGATION	4
2.2	SOIL VAPOR	6
2.3	GROUNDWATER.....	6
2.4	SUB-SLAB/INDOOR AIR/OUTDOOR AIR ORGANIC VAPOR	6
2.6	SUBSURFACE CONDITIONS	7
3.0	LABORATORY RESULTS.....	7
3.1	SOIL	8
3.2	GROUNDWATER.....	9
3.3	SUB-SLAB AND INDOOR AIR AND SOIL VAPOR	9
4.0	CONCLUSIONS	10
5.0	WARRANTS AND LIMITATIONS.....	11
6.0	PROFESSIONAL STATEMENT/SIGNATURE	12

FIGURES

1. Property Location Map
2. Sampling Locations

TABLES

1. Summary of Vapor/Indoor/Outdoor Air Analytical Results
2. Summary of Soil Analytical Results

APPENDICES

- A. Field Activity Summary
- B. Boring Logs
- C. Laboratory Data

1.0 INTRODUCTION

A Phase II Environmental Site Assessment (ESA) was completed for the properties located at 666, 668, 670 and 680 Amherst Street; 1624, 1628 and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo Erie County, New York (refer to **Figure 1**). The Subsurface Assessment/Phase II ESA was completed in accordance with ASTM E1903 - 19 Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process. Additionally, the Phase II ESA was completed in general accordance with the most current updates of New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation (DER-10).

The scope of work for this Phase II ESA was based on previous environmental assessments completed for the properties. These previous Phase I/II ESAs included:

- "Phase I Environmental Site Assessment (ESA) - Elmwood Avenue & Amherst Street Parcels. Buffalo, NY" Completed for Benderson Development by TurnKey Environmental Restoration, LLC in May 2019
- "Phase II Environmental Investigation Report - Elmwood Avenue & Amherst Street Parcels Buffalo, NY" Completed for Benderson Development by TurnKey Environmental Restoration, LLC in July 2019
- *"Phase I Environmental Site Assessment - 666, 668, 670 and 680 Amherst Street, 1624, 1628 and 1634 Elmwood Avenue and 155 Marion Street, Buffalo, Erie County, New York". Prepared for SAA EVI MC Family, LLC. Prepared by Brydges Engineering in Environment and Energy in December 2023*

This Phase II assessment included an investigation across the property (refer to **Figure 2**). The purpose of the assessment was two-fold: 1) to obtain information and data for assessing potential eligibility for the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP); and 2) To assess potential environmental issues identified in previous Phase I/II ESAs as follows:

The following RECs were identified with the subject properties:

- Historic uses as an auto repair shop and gasoline storage were identified at 155 Marion Street Municipal records indicate installation of presumed USTs at 155 Marion Street in unknown locations. Specifically, one 1000-gallon gas tank was installed in 1946 and one additional 1,000-gallon tank was installed in 1955. There are no records of their removal found during the referenced Phase I ESA
- Historic uses as a former dry cleaners and auto repair shop were identified at 1630 Elmwood Avenue.
- ASTs were identified in the basement of 680 Amherst for use as fuel oil storage. Staining was noted near floor drains and cracks in the floor. This could represent a release to the environment.
- Potential USTs were identified on the property adjacent to the subject properties at 141 Marion Street.

The following HREC is associated with the subject properties:

- A UST at The Voelker's Bowling Center at 686 Amherst Street, which is now the eastern portion of subject 680 Amherst Street property, was removed in May 2003. During the removal of the 5000-gallon heating oil tank, contamination was discovered, and a NYS spill was assigned (#0375107). The remedial effort included removal of approximately 160 tons of contaminated soil. The laboratory results of the soil samples of the completed excavation were deemed to be below regulatory guidelines and the spill was subsequently closed by NYSDEC in September 2003.

The following BERs are associated with the subject properties:

- Historic adjacent property uses near the subject properties including dry cleaners located at 1611 Elmwood Avenue and a filling station located at 1602 Elmwood Avenue.
- On-Site fill material (i.e., urban fill containing significant amounts of non-soil debris) was identified during a previous Phase II ESA in July 2019.

1.1 BACKGROUND

1.1.1 General Site Setting

The subject properties border one another in a rectangular layout and are collectively 1.69-acres in size. The general property descriptions are as follows:

680 Amherst Street Is an irregularly shaped parcel spanning 0.852 acres. It currently contains a vacant structure that occupies the majority of the property and formerly operated as a bowling alley. The structure contains a basement, bar area, and bowling lanes. The interior of the bowling alley is largely gutted and falling apart with debris covering much of the floor space. The basement contains petroleum ASTs and water heaters. The property abuts Marion Street, the 155 Marion Street subject property and the 1628 subject property to the north, Elmwood Ave to the west, Amherst Street to the south, and the 670 Amherst Street subject property to the east.

1628 Elmwood Avenue Is a rectangularly shaped property spanning 0.166 acres. It contains a structure on the entirety of the property that is a vacant warehouse. The structure was formerly used by a neon sign making company. The structure is one story and is empty. The property abuts 1634 Elmwood Avenue subject property to the north, Elmwood Avenue to the east, the 1624 Elmwood Avenue and 680 Amherst Street subject properties to the south, and the remainder of the 680 Amherst Street subject property to the west.

155 Marion Street Is a rectangularly shaped property spanning 0.318 acres. It contains a vacant, one-story structure that occupies the western portion of the property. The structure formerly operated as an autobody shop. Much of the remainder of the property is developed as parking spaces. A hydraulic lift is located in the separate garage area. The building is empty with the exception of some minor debris and empty drums. The property abuts Marion Street to the north, a portion of the 680 Amherst Street subject property to the east, the 668, 670, and 680 subject properties to the south, and a warehouse at 141 Marion Street to the west.

1634 Elmwood Avenue is a rectangularly shaped property spanning 0.075 acres. It was previously residential and is currently vacant land. Construction and demolition debris is embedded in the ground throughout the parcel. The property abuts Marion Street to the north, Elmwood Ave to the east, 680 Amherst Street and 1624 Elmwood Avenue subject properties to

the south, and the remainder of the 680 Amherst Street subject property to the west.

1624 Elmwood Avenue is a rectangularly shaped property spanning 0.033 acres. The entirety of the property is currently hardscaped and used for parking. The property previously contained a storefront in the 1950's. The property abuts the 1628 Elmwood Avenue subject property to the north, Elmwood Avenue to the east, and the 680 Amherst Street subject property to the south and west.

670 Amherst Street is a rectangularly shaped property spanning 0.077 acres. The entirety of the property is hardscaped and used for parking. The property appears to have been developed as a parking lot since at least 1950. The property abuts 155 Marion Street subject property to the north, the 680 Amherst Street subject property to the east, Amherst Street to the south, and the 668 Amherst Street subject property to the west.

668 Amherst Street is a rectangularly shaped property spanning 0.0879 acres. Much of the property is vacant land, while a portion of the north side is part of a parking lot. The property previously contained a storefront from 1916 to 1950 and was then mixed use as both commercial and residential. The previous structure appears to have been demolished sometime in 2021.

666 Amherst Street is a rectangularly shaped property spanning 0.084 acres. The entirety of the property is vacant land and there appears to be construction and demolition debris embedded in the ground throughout the site. The property was developed with residential structures as early as 1916. The structures appear to have been demolished sometime in 2021.

1.1.2 Physical Setting

The subject properties are located in the City of Buffalo, approximately 1.6 miles east of the Niagara River, less than 0.35 miles north of Scajaquada Creek, and about 1.4 miles northwest of the Buffalo Zoo. The topography is relatively flat and sloping southwest. The subject properties are 600 feet above sea level and are located at latitude 42° 56' 27" N; Longitude -78° 52' 45" W.

1.1.3 Historical Use

Historical use of the properties is as follows:

The 666 Amherst Street address was historically used for residential purposes since at least 1916. The previous structures appear to have been demolished sometime between 2021 and 2022 and the property is now vacant land.

The 668 Amherst Street address has historically mixed residential and commercial use. The property operated as a store from at least 1916 before becoming a residential dwelling. The structure appears to have been demolished sometime between 2021 and 2022 and the property is now vacant land.

The 670 Amherst Street address previously had small residential vehicle garages since at least 1916. The structures were demolished and the property became a paved parking lot sometime between 1951 and 1966. The property currently remains a paved parking lot.

The 680 Amherst Street address was historically divided into individual parcels identified as 674, 680, 686, and 692 Amherst Street. The eastern portion of the property was developed as early as 1938 as a bowling alley with a restaurant and residential apartments. Sometime between 1950

and 1981 the bowling alley was expanded across the entire southern portion of the property and the northern portion was paved into a parking lot. The apartments were demolished.

The 1624 Elmwood Avenue address has historically been used as a store as early as 1916. The structure was demolished around 1975 and the property is currently vacant.

The 1628 Elmwood Avenue property was historically divided into individual parcels with addresses 1626, 1630, and 1632 Elmwood Avenue. The property however became developed as a boarding house and restaurant, auto repair, and machine shop. The property currently contains a vacant commercial building.

The 1634 Elmwood Avenue address has historic uses as a saloon and storefront. The structures were demolished sometime between 2021 and 2022 and the property is currently vacant.

The 155 Marion Street address appears to have been developed around 1950. It was first developed into a private garage. It later operated as an auto repair and collision shop until 2014. The building is currently vacant.

1.1.4 Contaminants of Concern

The previous environmental assessments and property uses suggest there is potential for environmental impacts as identified in the introduction. Contaminants of concern include petroleum-based compounds and dry-cleaning solvents related to uses on the property and adjacent properties. Additionally, the potential for metal and semi volatile organic compounds, primarily PAHs related to fill materials may also be associated with the properties.

1.2 SCOPE

The purpose of the assessment was to assess the nature and extent of potential environmental impacts from past property uses as identified in the introduction and to collect data to assess BCP eligibility. The planned scope included the collection and analysis of soil, groundwater (if encountered), and soil/sub-slab vapor samples.

2.0 FIELD INVESTIGATION

The field work for the subject property was conducted from March 25, through March 27, 2024. Prior to conducting invasive work, the utility locate center was notified to mark underground utilities on the property. The field work included the following:

- A total of thirteen borings were performed to assess subsurface soils.
- Three soil borings were converted into soil vapor points to assess subsurface vapors.
- Sub-slab and indoor air paired samples were collected to assess the potential for vapor intrusion in the basement and first floor of the onsite buildings. One outdoor sample was also collected to compare background concentrations.

The proposed scope had originally included collection and analysis of groundwater samples. However, the soil borings encountered stiff, dry, tight clay conditions at all locations to completion depths and therefore no groundwater wells were installed, and no groundwater samples were collected. Typically, when this occurs soil vapor probes are installed instead to capture any impacts to soil vapor migrating via groundwater further below in a deeper geologic zone. For this project, soil vapor point samples were collected as a substitute to groundwater sample collection.

and in combination with the sub-slab and indoor air samples provided an assessment of potential for environmental impacts.

2.1 Soil Sampling

BE3 completed an assessment of sub-surface soils across the properties by advancing a total of thirteen soil borings at specific locations across the property (Borings BH-1 through BH-13) (See **Figure 2**). A total of thirteen grab soil samples, one from each boring, were collected for submission for laboratory analysis.

Soil borings were field located to assess the subsurface specific to previous property use and to ensure coverage across the parcels. Boring depths ranged from four to twenty feet below ground surface (bgs). The borings were completed using a Geoprobe® unit which employs direct push technology. Continuous soil sampling was performed using Macro Core soil samplers measuring approximately 44 inches in length and 1½ inches in diameter with acetate liners resulting in approximately 4-foot length distinct sample cores (i.e., 0 to 4 feet, 4 to 8 feet, 8 to 12 feet). Each of the samplers was fitted with a new acetate liner prior to use. A photolog of field activities is included in **Appendix A**. Stratification of material observed in each boring are noted on boring logs, which are included in **Appendix B**.

Soil from each soil core was visually described and field screened for volatile organic compounds (VOCs) using a RKI GX6000 photoionization detector (PID) with a 10.6 eV Lamp and by visual and olfactory observations. Soil cores from borings were transported to a staging area adjacent to each borehole. The soil core was opened, and the length of the core was examined visually and with the PID. Odors, PID results, and observations were noted on the boring logs. A total of thirteen (13) grab subsurface soil samples were collected at specific locations and depths from fill material as follows:

- BH-1 at 0-1 feet below ground surface (bgs). Total depth of boring was 20 feet bgs.
- BH-2 at 2-4 feet bgs. Total depth of boring was 4 feet bgs.
- BH-3 at 1-3 feet bgs. Total depth of boring was 4 feet bgs.
- BH-4 at 1-3 feet bgs. Total depth of boring was 4 feet bgs.
- BH-5 at 1-3 feet bgs. Total depth of boring was 4 feet bgs.
- BH-6 at 1-3 feet bgs. Total depth of boring was 12 feet bgs.
- BH-7 at 1-3 feet bgs. Total depth of boring was 4 feet bgs.
- BH-8 at 1-2 feet bgs. Total depth of boring was 4 feet bgs.
- BH-9 at 1-2 feet bgs. Total depth of boring was 4 feet bgs.
- BH-10 at 0-1 feet bgs. Total depth of boring was 20 feet bgs.
- BH-11 at 4-5 feet bgs. Total depth of boring was 8 feet bgs.
- BH-12 at 1-3 feet bgs. Total depth of boring was 4 feet bgs.
- BH-13 at 1-2 feet bgs. Total depth of boring was 4 feet bgs.

All soil borings were backfilled with the soil from the boring. Borings located in asphalt covered areas were patched with cold patch asphalt. All soil samples were taken below asphalt and asphalt subbase which ended approximately one-half foot bgs. The soil samples were submitted to Eurofins Buffalo Laboratory, a NYSDEC approved laboratory, for analysis.

2.2 SOIL VAPOR

Three soil borings, BH-2, BH-6 and BH-9 were converted into soil vapor points (SV-1, SV-2 and SV-3, respectively). The sample locations were chosen based on the RECs identified in the Phase I ESA including:

- BH-2/SV-1 to assess adjacent offsite potential USTs at 141 Marion Street on the border of the 666 Amherst Street subject property.
- BH-6/SV-2 to assess the historic and current auto repair shop on the 155 Marion Street subject property.
- BH-9/SV-3 to assess the historic auto and drycleaning operation at 1630 Elmwood Avenue.

Sampling and probe installation was conducted in accordance with NYSDOH guidance for evaluating soil vapor intrusion (NYSDOH Soil Vapor Intrusion Guidance-October 2006). The Vapor Point was installed in the fill zone at a depth above native soil. Neither groundwater nor bedrock was encountered in any of the borings at the depths of borehole completion. A ¼ inch PVC tube was connected to a 3/8-inch stainless steel screen and set at the selected depths. Porous sand was backfilled around the screen to a two-foot depth (or less depending on total depth of the borehole) of each hole and a bentonite seal was placed above the sand layer to seal off the hole around the tubing. Air samples were collected in regulated summa canisters over a 24-hour period. The samples were analyzed for USEPA TO- 15 compounds.

2.3 GROUNDWATER

No groundwater was encountered at the completed borehole depths and therefore no groundwater wells were installed or groundwater samples collected. The initial intention was to convert soil borings into temporary GW wells, but groundwater was not encountered. Several borings were completed at twenty feet below ground surface (bgs). In these and in the other shallower borings native stiff, tight, dry silty clay was encountered below the fill layer.

2.4 SUB-SLAB/INDOOR AIR/OUTDOOR AIR ORGANIC VAPOR

Sub-slab vapor sampling was performed in the 680 Amherst Street Building to assess the REC identified on that property. Since the building had both basement and slab-on-grade construction and based on the building size, a total of five sub-slab locations were chosen to include both basement and first floor areas. Each sub-slab sample was paired with an adjacent above slab, indoor air sample. The samples were collected in accordance with NYSDEC and New York State Department of Health (NYSDOH) requirements following standard procedures and analyzed at an NYS ELP certified laboratory. The assessment was completed as follows:

1. Sub-slab Air Organic Vapor Testing

- Five sub-slab vapor samples (SS-1 through SS-5) were obtained at various locations in 680 Amherst Street (former bowling alley) to assess sub-slab air quality (refer to Figure).
- A 0.25-inch hole was drilled through the building concrete slab into underlying soil, a tube was then placed into the hole and sealed with non-VOC putty to create an airtight seal. A helium test was performed to make sure the seal was leak-proof.

- A regulator was connected to the other end of the tubing and attached to a laboratory supplied negative-pressurized canister to collect a sample over a 24-hour period.
- Vapor samples were collected on 3/26/2024 at 2:00 P.M. and picked up on 3/27/2024 at 2:00 P.M. (24 hours). One canister (SS-2) was allowed to sample for approximately 48 hours to allow for sufficient sample volume.
- Each sub-slab vapor sample was paired with an indoor air vapor sample.

2. Indoor Air Organic Vapor Testing

- Five indoor air samples (sample Identification IA-1 through IA-5) were collected in central locations on the ground floor and basement of 680 Amherst Street.
- A regulator was connected to a negative pressurized canister that collected a sample over a 24-hour period.
- The indoor air samples were set on 4/26/24 at 2:00 P.M. and collected on 4/27/24 at 2:00 P.M. (i.e., at least 24 hours).

3. Outdoor Air Organic Vapor Testing

- One outdoor air sample was collected at the site for background concentrations. The sample was located outside the building adjacent to the northeast corner of the building.
- The outdoor air sample was set on 4/26/24 at 2:00 P.M. and picked up on 4/27/24 at 2:00 P.M. (24 hours).
- A regulator was connected to a negative-pressurized canister that collected a sample over a 24-hour period.

The vacant building was closed with no activity and all windows and doors were closed during the vapor testing. The sub-slab, Indoor and outdoor air samples were collected using Summa® canisters and analyzed for TCL VOCs via EPA Method TO-15. See **Appendix C** for a copy of laboratory results.

2.6 SUBSURFACE CONDITIONS

The borings indicate that subsurface conditions generally consisted urban fill containing construction and demolition debris, black clayey silts, cinder and coal to approximately 4 feet bgs. Beneath the fill exists stiff to very stiff silty lean clay from approximately 4 to 20 feet. Boring depths ranged from 4 to 20 feet bgs. As reported, groundwater and bedrock was not encountered. (Refer to borehole logs in **Appendix B**.)

3.0 LABORATORY RESULTS

The sample laboratory results are summarized below. Samples were analyzed on a standard 10-day turnaround time. The analytical soil results were compared to the NYSDEC residential and restricted residential Soil Cleanup Objectives (SCOs) listed in Table 375-6.8(a) and (b) of 6 NYCRR Part 375 (current). These SCOs and standards are listed in **Table 1**. A copy of the laboratory report is provided in **Appendix C**.

3.1 SOIL

A total of thirteen (13) soil samples were collected for analysis. All soil samples were analyzed for NYSDEC Part 375 SVOCs and tentatively identified compounds (TICS) by EPA Method 8270D, NYSDEC Part 375 VOCs and TICS by EPA Method 8260 C, and Part 375 Metals and Mercury by EPA Method 6010C and 7471B.

TICS are compounds that the laboratory analysis does not specifically identify as a specific compound usually because of some environmental weathering, degradation or masking. Although the ability to identify a TIC as a specific compound is not possible through laboratory method the analyst can determine that a compound is being detected and it tentatively is similar to a specific compound. TICs are analyzed to give the investigation a true sense of the potential environmental impacts of the media being examined. If a TICs analysis is not requested, any compounds that are not specifically identified are not reported.

The analytical soil results were compared to the NYSDEC residential and restricted residential Soil Cleanup Objectives (SCOs) listed in Table 375-6.8(a) and (b) of 6 NYCRR Part 375 (current). The SCOs are listed in **Table 1**. A copy of the laboratory report is provided in **Appendix C**.

Metals

Metals were detected in all soil samples analyzed. A summary of metals in comparison to NYSDEC SCOs is provided in **Table 1** and **Figure 2**. There were no detections above NYSDEC restricted residential SCOs.

Semi-Volatile Organic Compounds (SVOCs)

SVOC compounds, mostly polycyclic aromatic hydrocarbons (PAHs), were detected in all of the soil samples collected. However, only BH-4 and BH-8 had PAHs detected in soil samples above NYSDEC SCOs as follows:

- Benzo(a)anthracene was detected above restricted residential SCOs in BH-4 (4.7 ppm) at 668 Amherst Street. This compound was above industrial SCOs in BH-8 (31 ppm) at 680 Amherst Street
- Benzo(a)pyrene was detected above industrial SCOs in BH-4 (4.6 ppm) and BH-8 (55 ppm) at 668 and 680 Amherst Street.
- Benzo(b)fluoranthene was detected above restricted residential SCOs in BH-4 (4.7 ppm) at 668 Amherst Street. This compound was detected above industrial SCOs in BH-8 (62 ppm) at 680 Amherst Street.
- Benzo(k)fluoranthene was detected above restricted residential SCOs in BH-8 (24 ppm) at 680 Amherst Street.
- Chrysene was detected above restricted residential SCOs in BH-4 (4.4 ppm) at 668 Amherst Street. This compound was detected above commercial SCOs in BH-8 (56 ppm)
- Dibenz(a, h)anthracene was detected above commercial SCOs in BH-4 (0.73 ppm) at 668 Amherst Street. This compound was detected above Industrial SCOs in BH-8 (4.8 ppm) at 680 Amherst Street.
- Fluoranthene was detected above restricted residential SCOs in BH-8 (130 ppm) at 680 Amherst Street.
- Indeno(1,2,3-cd)pyrene was detected above restricted residential SCOs in BH-4

(2.3 ppm) at 668 Amherst Street. This compound was detected above industrial SCO in BH-8 (15 ppm) at 680 Amherst Street.

- Phenanthrene was detected above restricted residential SCO in BH-8 (120 ppm) at 680 Amherst Street.
- Pyrene was detected above restricted residential SCO in BH-8 (110 ppm) at 680 Amherst Street.

SVOC compounds including PAHs are common in urban fill in the northeast USA at and above the levels found in these samples. The sample results do not indicate elevated SVOC compounds across the property.

Volatile Organic Compounds (VOCs)

Odors and elevated PID readings were not observed during field activities. Acetone was detected in BH-5 and BH-7 at very low concentrations and significantly below NYSDEC SCOs. Acetone is a common laboratory contaminant from reagents and cleaning of laboratory glassware and other laboratory items, and typically appear in environmental datasets as low concentration false positive detections.

3.2 GROUNDWATER

No groundwater was encountered at the site at the boring depths and therefore no groundwater samples were collected.

3.3 SUB-SLAB AND INDOOR AIR AND SOIL VAPOR

To evaluate vapor/indoor air conditions, results were compared to NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. The Indoor air sample results indicated the presence of VOCs at low concentrations; however, all results were below NYSDOH Indoor Air Guideline Values.

The NYSDOH Soil Vapor/Indoor Air Decision Matrices were then evaluated to determine if any additional considerations or actions are necessary based on the results. Different than simply comparing the indoor and sub-slab results to the NYSDOH threshold values, the matrices consider both the sub-slab and indoor air samples together as “paired” samples to assess whether the levels require methods to reduce the VOCs detected. Three different matrices exist for different contaminants of concern. Based on the results, actions can range from “mitigate,” “monitor,” or “no further action.” The matrices and resulting actions for the vapor samples obtained during this investigation are summarized as follows (Matrix, Analytes Assigned, Action):

- Matrix A – Trichloroethene (TCE), *cis*-1,2-Dichloroethene (*cis*-DCE), 1,1-Dichloroethene (1,1-DCE) and Carbon Tetrachloride – No further action required.
- Matrix B – Tetrachloroethene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA) and Methylene Chloride – No further action required.
- Matrix C – Vinyl Chloride – No further action required.
- Matrix D – Benzene, ethylbenzene, naphthalene, cyclohexane, isooctane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, *o*-xylene – No further action required.
- Matrix E – *m*-xylene, *p*-xylene, heptane, hexane – No further action required.
- Matrix F – Toluene – No further action required.

Several VOCs were detected in the soil vapor samples collected below guidance values and when compared to indoor air concentrations require no further action to address human exposure.

4.0 CONCLUSIONS

- 155 Marion Street - historic and current uses as an auto repair shop and gasoline storage were identified as RECS specific to this property. Vapor probe SV-2 was set to assess this REC. Sample results did not indicate any environmental impact.
- 1630 Elmwood Avenue - historic uses as a former dry cleaners and auto repair shop was identified as a REC at this location. Vapor probe SV-3 was set to assess this REC. No environmental impacts were identified.
- 680 Amherst - ASTs found in the basement, stains observed on the floor and a former UST and petroleum spill were identified on the subject property – Soil boring BH-8 and sub-slab points SS-1, SS-2, SS-3, SS-4, and SS-5 were assessed with an indoor air pair to examine this REC and HREC. No environmental impacts were identified.
- Potential USTs were identified at 141 Marion Street directly adjacent to the 666 Amherst Street and 155 Marion Street subject properties. Vapor probes SV-1 and SV-2 were performed to assess this REC. No environmental impacts were identified.

The following BERs are associated with the subject properties:

- Historic adjacent property uses near the subject properties including dry cleaners located at 1611 Elmwood Avenue and a filling station located at 1602 Elmwood Avenue. Sub-slab vapor points SS-5, SS-2, and SS-1 were assessed with an indoor pair to assess these BERs – No environmental impacts were identified.
- The fill conditions on all the subject properties were assessed with the borings completed on each property. Only BH 4 and BH 8 on properties 668 and 680 Amherst Street had any elevated SVOCs.

In Summary - Potential environmental impacts were assessed at 666, 668, 670 and 680 Amherst Street; 1624, 1628 and 1634 Elmwood Avenue; and 155 Marion Street, located in Buffalo, New York based upon the historic and current auto repair and petroleum use of the property and a historic dry cleaner on the subject property. The following conclusions are based on the analytical results from samples of indoor air, soil, and sub-slab vapor.

- No VOCs were detected in the indoor air samples that exceeded NYSDOH Indoor Air Guideline Values.
- Two soil samples contained SVOCs above restricted residential SCOs. However, these levels are common in urban backfill within industrial areas, such as Buffalo, and do not represent an environmental concern.

Adverse environmental impacts in relation to past property uses identified in the December 2023 Phase I ESA were not observed in the analytical data obtained for the subject properties in this report.

5.0 WARRANTS AND LIMITATIONS

This report is based on information obtained from limited soil and vapor sampling, visual observations and review of a previous Phase I ESA performed at the property. This report is intended exclusively for the purpose outlined herein at the site location and project indicated.

This report is intended for the sole use of SAA | EVI MC Family, LLC. The scope of services performed in this assessment may not be appropriate to satisfy the needs of other users and any use or reuse of this document or the findings, conclusions, or recommendations presented, is at the sole risk of the user.

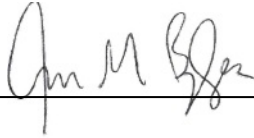
The conclusions set forth in this report are based upon, and limited by, the analytical data and other information available. It should be noted that all surface and subsurface environmental assessments are inherently limited in the sense that conclusions are drawn, and recommendations developed from information obtained from limited data and site evaluation at a specific time. The passage of time may result in a change in environmental circumstances at this site and surrounding properties, or petroleum/hazardous materials beneath the surface may be present but undetectable during this limited subsurface assessment.

Opinions and recommendations presented herein apply to the site conditions existing at the time of the subsurface assessment and those reasonably foreseeable. They cannot necessarily apply to site changes, which are not made aware and therefore cannot be evaluated.

6.0 PROFESSIONAL STATEMENT/SIGNATURE

This subsurface assessment at 666, 668, 670 and 680 Amherst Street; 1624, 1628 and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, New York was performed in conformance with the scope and limitations of ASTM Practice E 1903-11 for the specific objectives specified in the report and was completed based on the scope of work provided by the banks' consultant. I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in 312.10 of 40CFR312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Jason M. Brydges, PE



4/29/2024

Date

FIGURES

Figure 1: Property Location

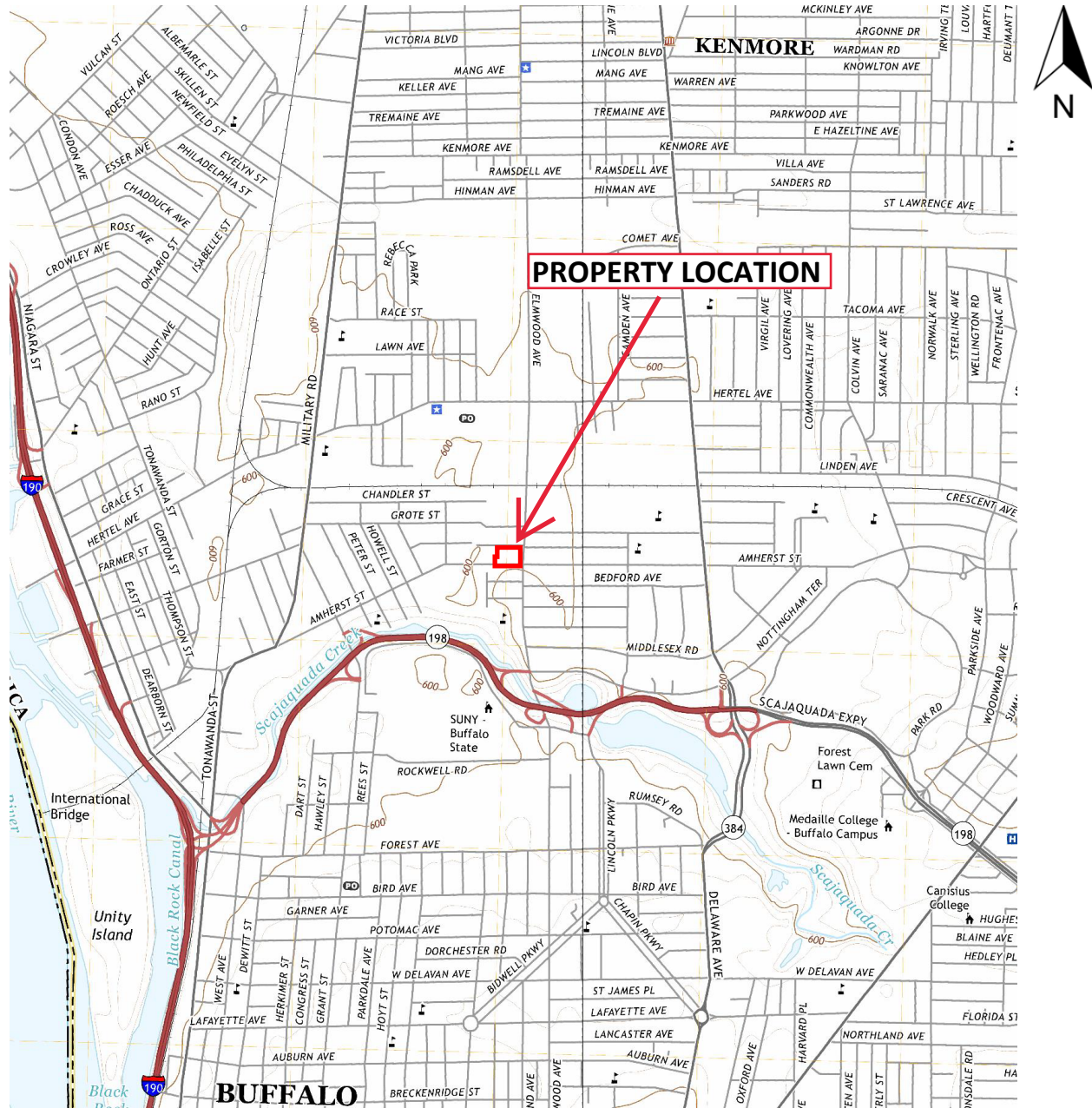
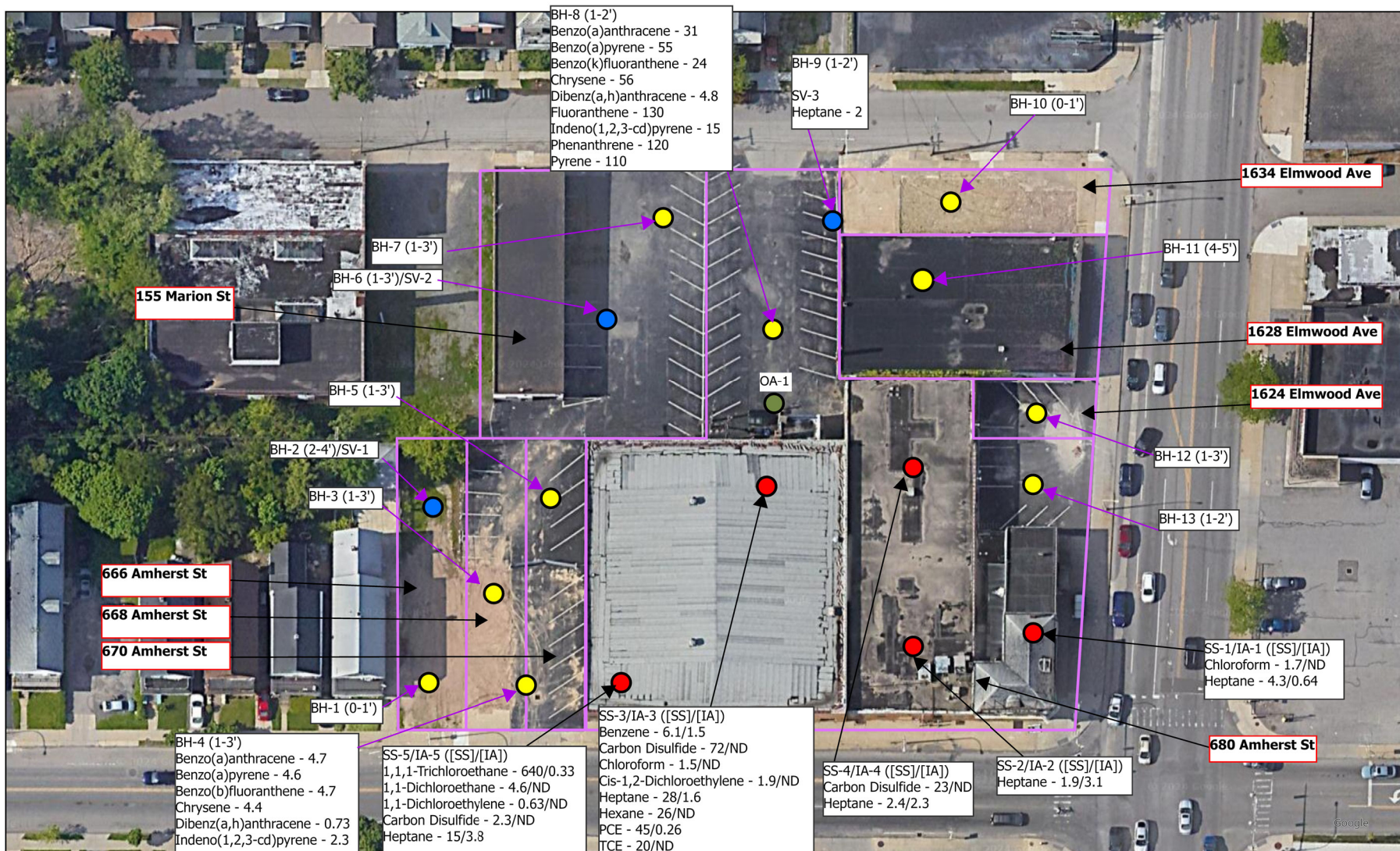


Figure 1: Property Location

680 Amherst Street
Buffalo, New York

6/9/2023
SAA EVI MC Family, LLC



LEGEND

- Soil Boring
- Soil Boring & Soil Vapor
- Project Boundary
- Sub-slab/Indoor Air Paired Sample

Note:

1. All soil results listed are in units of parts per million (ppm)
2. All air results listed are in units of micrograms per cubic meter (ug/m3)
3. All soil results listed are above restricted residential SCOs.

BE3

**BRYDGES
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AND ENERGY, DPC

960 Busti Avenue
Buffalo, NY 14213
716.249.6880
jbrydges@be3corp.com

CLIENT - SAA EVI MC FAMILY, LLC

Figure 2 - BE3 Phase II Investigation
Summary Results

666, 668, 670, and 680 Amherst Street;
1624, 1628, and 1634 Elmwood Avenue; and
155 Marion Street
Buffalo, NY 14207

DATE ISSUED:
April 12, 2024

Scale: 1:734

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Phase II Report April 2024 - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date							NYSDEC Soil Cleanup Objectives (SCOs)
	BH-1	BH-2	BH-3	BH-4	BH-5	BH-6	BH-7	Restricted Residential
	0-1	2-4	1-3	1-3	1-3	1-3	1-3	
3/25/2023								
METALS/INORGANICS								
Arsenic	5.6	7	3.4	6.2	3.3	3.5	4.1	16
Barium	104	113	76.2	108	59	112	116	400
Beryllium	0.73	0.74	0.49	0.79	0.42	0.77	0.84	72
Cadmium	0.13 J B	ND	0.24 B	0.31 B	0.21 J	0.15 J	0.2 JB	4.3
Chromium	26.9	39.7	15.9	27.5	14.7	28.3	19.8	180
Copper	33.5	46.7	21.0	26.7	12.8	12.5	11	270
Lead	127	359	50	123	38.7	49.9	35.6	400
Manganese	302 B	416 B	216 B	494 B	218 B	208 B	294 B	2000
Mercury	0.11	0.26	0.065	0.2	0.059	0.065	0.089	0.81
Nickel	20	21.6	11.8	27.6	12.4	16.4	107	310
Selenium	ND	ND	ND	ND	ND	ND	ND	180
Silver	ND	ND	ND	ND	ND	ND	ND	180
Zinc	88.2	83.3	60.7	113	49	63.8	58.3	10000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)								
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	13
Acenaphthene	ND	ND	ND	1.1 J	ND	ND	ND	100
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	100
Anthracene	ND	ND	ND	1.9 J	ND	ND	ND	100
Benzo(a)anthracene	0.068 J	0.11 J	0.14 J	4.7	ND	0.036 J	0.24 J	1
Benzo(a)pyrene	0.053 J	0.13 J	0.15 J	4.6	ND	0.042 J	0.51 J	1
Benzo(b)fluoranthene	0.075 J	0.14 J	0.16 J	4.7	ND	0.06 J	0.76 J	1
Benzo(g,h,i)perylene	0.032 J	0.077 J	ND	2.2	ND	0.031 J	0.63 J	100
Benzo(k)fluoranthene	0.03 J	0.061 J	ND	2.6	ND	ND	0.3 J	3.9
Chrysene	0.0785 J	0.12 J	ND	4.4	ND	0.055 J	0.46 J	3.9
Dibenz(a,h)anthracene	ND	ND	ND	0.73 J	ND	ND	ND	0.33
Dibenzofuran	ND	ND	ND	0.54 J	ND	ND	ND	18
Fluoranthene	0.14 J	0.21 J	0.24 J	10	5.5 J	0.11 J	0.77 J	100
Fluorene	ND	ND	ND	0.81	ND	ND	ND	100
Indeno(1,2,3-cd)pyrene	0.034 J	0.075 J	ND	2.3	ND	0.03 J	0.49 J	0.5
Naphthalene	ND	ND	ND	0.3 J	ND	ND	ND	100
Phenanthrene	0.1 J	0.085 J	0.14 J	7.7	3.9 J	0.054 J	0.3 J	100
Pyrene	0.1 J	0.2 J	0.22 J	8.5	4.1 J	0.09 J	0.58 J	100
VOLATILE ORGANIC COMPOUNDS (VOCs)								
Acetone	ND	ND	ND	ND	0.014 J	ND	0.006 J	100

ND Analyte not detected
- Not Applicable or sample not tested for this analyte
J Estimated Concentration
B Analyte detected in method blank
K Result is reported as Benzo(b)fluoranthene
E Results exceeded calibration range
T Result is Tentatively Identifies Compound and an estimated value
Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Phase II Report April 2024 - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date						NYSDEC Soil Cleanup Objectives (SCOs)
	BH-8 1-2	BH-9 1-2	BH-10 0-1	BH-11 4-5	BH-12 1-3	BH-13 1-2	Restricted Residential
	3/25/2023						
METALS/INORGANICS							
Arsenic	12.8	5	6.5	4.9	4.7	9.5	16
Barium	217	123	109	104	82.4	89	400
Beryllium	0.89	0.68	0.08	0.68	1.7	0.93	72
Cadmium	0.67 B	0.18 J B	0.33 B	0.13 J B	0.21 JB	ND	4.3
Chromium	27.3	26.6	23.0	22.6	11.9	31.5	180
Copper	54.7	28.6	112.0	17	8.7	8.7	270
Lead	456	219	121	332	41.6	130	400
Manganese	1240 B	212 B	377 B	292 B	441 B	230 B	2000
Mercury	0.26	0.087	0.260	0.069	0.56	0.047	0.81
Nickel	25.1	17.1	28.8	16	10.1	18.9	310
Selenium	0.55 J	ND	ND	ND	ND	ND	180
Zinc	243	97.5	145	58	41.1	67.3	10000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)							
Acenaphthylene	7.2	ND	ND	ND	ND	ND	100
Anthracene	6.4	ND	ND	ND	ND	ND	100
Benzo(a)anthracene	31	0.55 J	0.13 J	0.045 J	ND	0.27 J	1
Benzo(a)pyrene	55	0.62 J	0.12 J	0.043 J	ND	0.25 J	1
Benzo(b)fluoranthene	62	0.85 J	0.14 J	0.056 J	ND	0.32 J	1
Benzo(g,h,i)perylene	13	0.25 J	0.081 J	0.029 J	ND	0.17 J	100
Benzo(k)fluoranthene	24	0.4 J	0.083 J	ND	ND	0.19 J	3.9
Chrysene	56	0.77 J	0.13 J	ND	ND	0.32 J	3.9
Dibenz(a,h)anthracene	4.8	ND	ND	ND	ND	ND	0.33
Dibenzofuran	6.6	ND	ND	ND	ND	ND	18
Fluoranthene	130	1.9	0.26	0.085 J	3.3 J	0.86 J	100
Fluorene	15	ND	ND	ND	ND	ND	100
Indeno(1,2,3-cd)pyrene	15	0.28 J	0.06 J	ND	ND	ND	0.5
Naphthalene	1.4 J	ND	ND	ND	ND	ND	100
Phenanthrene	120	1.2	0.16 J	0.047 J	ND	0.56 J	100
Pyrene	110	1.3	0.22	0.077 J	2.7 J	0.63 J	100
VOLATILE ORGANIC COMPOUNDS (VOCs)							
Acetone	ND	ND	ND	ND	ND	ND	100
Chloroform	ND	ND	ND	ND	ND	ND	24
Methylene Chloride	ND	ND	ND	ND	ND	ND	81
2- Butanone (MEK)	ND	ND	ND	ND	ND	ND	100
Trichloroethene	ND	ND	ND	ND	ND	ND	6.4

ND Analyte not detected
- Not Applicable or sample not tested for this analyte
J Estimated Concentration
B Analyte detected in method blank
K Result is reported as Benzo(b)fluoranthene
E Results exceeded calibration range
T Result is Tentatively Identifies Compound and an estimated value
Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

APPENDICES

FIELD ACTIVITY SUMMARY



1. View of BH-1 location looking north



2. View of BH-1 location looking west



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3. View of BH-1 soil cores



4. View of BH-2 location looking north



5. View of BH-2 location looking northeast



6. View of BH-2 soil cores



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7. View of BH-3 location looking north



8. View of BH-3 location looking west



9. View of BH-3 soil cores



10. View of BH-4 location looking west



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11. View of BH-4 location looking north



12. View of BH-4 soil cores



13. View of BH-5 location looking south



14. View of BH-5 location looking east



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15. View of BH-5 soil cores



16. View of BH-6 location looking north



17. View of BH-6 location looking south



18. View of BH-6 soil cores



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19. View of BH-7 location looking southeast



20. View of BH-7 location looking west



21. View of BH-8 location looking north



22. View of BH-8 location looking south



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23. View of BH-8 soil cores



24. View of BH-9 location looking north



25. View of BH-9 location looking south



26. View of BH-10 location looking west



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27. View of BH-10 location looking south



28. View of BH-10 location soil cores



29. View of BH-11 location looking north



30. View of BH-11 location looking west



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31. View of BH-11 soil cores



32. View of BH-12 location looking west



33. View of BH-12 location looking north



34. View of BH-12 soil cores



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35. View of BH-13 location looking south



36. View of BH-13 location looking west



37. View of BH-13 soil cores



38. View of SS-2 location in basement



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39. View of SS-2 and IA-2



40. View of SS-1 and IA-1 location



41. View of SS-5 location



42. View of SS-5 and IA-5 location



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43. View of SS-3 and IA-3 location



44. View of SV-1 location



45. View of SV-2 location



46. View of SV-3 location



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47. View of OA-1 location

BORING LOGS

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	666 Amherst Street	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-1		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0	1	G	Urban Fill	0.0	C&D debris visible at surface
1				0.0	0-1' - Brown-Black silty clay, various debris, wood, brick, black cinder
2					
3					
4				0.0	1-4' - Red to brown silty clay, stiff native
5					
6					
7					
8				0.0	4-8' - Red to brown silty clay, stiff native
9					
10					
11					
12				0.0	8-12' - As above
13					
14					
15					
16				0.0	12-16' - As above
17					
18					
19					
20				0.0	16-20' - As above, dry very stiff

Comments:
 No PID readings.
 Soil sample collected at 0-1' bgs for metals and mercury, SVOCs, and VOCs
 Native soil observed at approximately 1-1.5' bgs

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	666 Amherst Street	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-2		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0			Urban Fill	0.0	0-0.2' - Vegetation, organics, Brown silty topsoil
1					
2					
3	1	G			
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 2-4' bgs for metals and mercury, SVOCs, and VOCs
 Soil vapor probe installed at 4 feet bgs. Backfilled with 2' of sand and 2' of bentonite chips

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	666 Amherst Street	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-3		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0			Urban Fill	0.0	C&D Debris visible at surface
1	1	G			
2					
3					
4				0.0	0-3' - Brown-black clayey silt, some rock and black cinder, red/orange streaks
5				0.0	3-4' - Red-brown silty clay, stiff, some rock
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 1-3' bgs for metals and mercury, SVOCs, and VOCs sand TICs
 Native soil observed at approximately 3' bgs.

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	668/670 Amherst Street	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-4		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0			Urban Fill	0.0	C&D Debris visible at surface
1	1	G			
2					
3					
4					
5				0.0	0-3' - Brown silty clay and clayey silt, some rock and red/orange streaks
6				0.0	3-4' - Red-brown silty clay, stiff, some rock
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 1-3' bgs for metals and mercury, SVOCs, and VOCs sand TICs
 Native soil observed at approximately 3' bgs.

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	670 Amherst Street	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-5		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0			Urban Fill	0.0	0-0.5' - Asphalt and subbase
1	1	G			
2					
3					
4					
				0.0	0.5-2' - Black to brown clayey silt, red/orange streaks, cinder
				0.0	0.5-4' - Black to brown silty clay, red/orange streaks, cinder
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 1-3' bgs for metals and mercury, SVOCs, and VOCs sand TICs
 Native soil not observed.

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	155 Marion Street	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-6		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description	
	NO	TYPE				
0			Urban Fill	0.0	0-0.5' - Asphalt and subbase	
1						
2	1	G				
3					0.0	0.5-3' - Black clayey silt, some brown and grey
					0.0	3-3.5' - Mixed crushed debris, cinder, brick, concrete
4					0.0	3.5-4' - Brown silty clay, trace brick
5						
6						
7						
8				0.0	4-8' - Brown silty lean clay, stiff	
9						
10						
11						
12				0.0	8-12' - As above	
13						
14						
15						
16						
17						
18						
19						
20						

Comments:
 No PID readings.
 Soil sample collected at 1-3' bgs for metals and mercury, SVOCs, and VOCs
 Soil vapor probe installed at 4 feet bgs. Backfilled with 2' of sand and 2' of bentonite chips
 Native soil observed at approximately 4.5' bgs.

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	155 Marion Street	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-7		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0			Urban Fill	0.0	0-0.5' - Asphalt and subbase
1					
2	1	G			
3					
4					
5					
6					
7					
8					
9					
4				0.0	3.5-4' - Brown/black/orange silty clay and clayey silt Odor of weathered petroleum
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 1-3' bgs for metals and mercury, SVOCs, and VOCs sand TICs
 Native soil not observed.

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	680 Amherst Street	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-8		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0			Urban Fill	0.0	0-0.5' - Asphalt and subbase
1	1	G			
2					
3				0.0	0.5-3' - Black clayey silt, cinder, coal odor of weathered petroleum
4				0.0	3-4' - Brown silty clay, stiff
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 1-2' bgs for metals and mercury, SVOCs, and VOCs sand TICs
 Native soil not observed at approximately 4' bgs

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	680 Amherst Street	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-9		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0			Urban Fill	0.0	0-0.5' - Asphalt and subbase
1	1	G			
2					
				0.0	0.5-2' - Black to brown clayey silt, cinder Odor of weathered petroleum
3					
4				0.0	2-4' - Red-brown silty clay, stiff
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 1-2' bgs for metals and mercury, SVOCs, and VOCs
 Soil vapor probe installed at 2 feet bgs. Backfilled with 1' of sand and 1' of bentonite chips
 Native soil observed at approximately 2.5' bgs.

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	1634 Elmwood Avenue	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-10		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0	1	G	Urban Fill	0.0	C&D debris visible at surface, no vegetation
1				0.0	0-1' - Brown-Black silty clay, various debris, wood, brick, trace black cinder
2				0.0	1-2' - Rock
3					
4				0.0	2-4' - Red-brown silty clay, some orange and grey, stiff
5					
6					
7					
8				0.0	4-8' - Red-brown silty clay, some orange and grey, stiff
9					
10					
11					
12				0.0	8-12' - As above
13					
14					
15					
16				0.0	12-16' - As above
17					
18					
19					
20				0.0	16-20' - As above, dry

Comments:
 No PID readings.
 Soil sample collected at 0-1' bgs for metals and mercury, SVOCs, and VOCs sand TICs
 Native soil observed at approximately 2.5' bgs

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	1628 Elmwood Avenue	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-11		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0	1	G	Urban Fill		
1					
2					
3					
4				0.0	0-4' - Concrete
5					
6					
7					
				0.0	4-7.5' - Brown to black clayey silt, stiff
8				0.0	7.5-8' - Brown silty clay, very stiff
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 4-5' bgs for metals and mercury, SVOCs, and VOCs sand TICs
 Native soil observed at approximately 7.5' bgs

Geoprobe Bore Hole Log



Project:			Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY		
Client:	SA&A-EVI		Location:	1628 Elmwood Avenue	
Contractor:	TREC		Ground Elevation:	Approximately 600 ft	
Date Started:	3/25/2024		Equipment Model:	Geoprobe	
Date Completed:	3/24/2024		Geologist/Technician:	Jacob Cox	
Operator:	TREC		Ground Water:	N/A	
Bore Hole Number:	BH-12		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0			Urban Fill	0.0	0-0.5' - Asphalt and subbase
1	1	G		0.0	0.5-1' - Black to brown clayey silt
2				0.0	1-2' - Black cinder, coal
3				0.0	2-3' - Crushed concrete and rock
4				0.0	3-4' - Brown to black silty clay
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 1-3' bgs for metals and mercury, SVOCs, and VOCs sand TICs
 Native soil observed at approximately 3' bgs

Geoprobe Bore Hole Log



Project:		Voelkers - 666, 668, 670, 680 Amherst Street; 1624, 1628, and 1634 Elmwood Avenue; and 155 Marion Street, Buffalo, NY	
Client:	SA&A-EVI	Location:	680 Amherst Street
Contractor:	TREC	Ground Elevation:	Approximately 600 ft
Date Started:	3/25/2024	Equipment Model:	Geoprobe
Date Completed:	3/24/2024	Geologist/Technician:	Jacob Cox
Operator:	TREC	Ground Water:	N/A
Bore Hole Number:	BH-13	Depth to Bedrock:	N/A

Depth (ft)	Sample		REC	PID	Description
	NO	TYPE		(ppm)	
0			Urban Fill	0.0	0-0.5' - Asphalt and subbase
1					
2	1	G		0.0	0.5-2' - Black to brown clayey silt
3					
4				0.0	2-4' - Brown silty clay, some orange and grey
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:

No PID readings.
Soil sample collected at 1-2' bgs for metals and mercury, SVOCs, and VOCs sand TICs
Native soil observed at approximately 2-2.5' bgs

LABORATORY DATA

ANALYTICAL REPORT

PREPARED FOR

Attn: Jason Brydges
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

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JOB DESCRIPTION

680 Amherst Street - Voelkers

JOB NUMBER

480-218119-1

Eurofins Buffalo

Job Notes

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Authorization



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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Detection Summary	8
Client Sample Results	14
Surrogate Summary	41
QC Sample Results	42
QC Association Summary	48
Lab Chronicle	53
Certification Summary	60
Method Summary	61
Sample Summary	62
Chain of Custody	63
Receipt Checklists	65



Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Job ID: 480-218119-1

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Job Narrative 480-218119-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/26/2024 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-705127 and analytical batch 480-705853 recovered outside control limits for the following analytes: 2-Butanone (MEK) and Acetone. These analytes were biased high in the LCS and were not detected above the reporting limits in the associated samples; therefore, the data have been reported. The associated samples are: BH-1 0-1 (480-218119-1), BH-2 2-4 (480-218119-2), BH-3 1-3 (480-218119-3), BH-4 1-3 (480-218119-4), BH-5 1-3 (480-218119-5), BH-6 1-3 (480-218119-6), BH-7 1-3 (480-218119-7), BH-8 1-2 (480-218119-8), BH-9 1-2 (480-218119-9), BH-10 0-1 (480-218119-10), BH-11 4-5 (480-218119-11), BH-12 1-3 (480-218119-12) and BH-13 1-2 (480-218119-13).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-3 1-3 (480-218119-3), BH-4 1-3 (480-218119-4), BH-5 1-3 (480-218119-5), BH-7 1-3 (480-218119-7), BH-8 1-2 (480-218119-8) and BH-9 1-2 (480-218119-9). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-705325 recovered outside acceptance criteria, low biased, for 2-Methylphenol, 3-Methylphenol, 4-Methylphenol and Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: BH-5 1-3 (480-218119-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 480-705325 was outside criteria for the following analyte(s): Pentachlorophenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-12 1-3 (480-218119-12) and BH-13 1-2 (480-218119-13). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: BH-12 1-3 (480-218119-12). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

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Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Job ID: 480-218119-1 (Continued)

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Method 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: BH-5 1-3 (480-218119-5) and BH-12 1-3 (480-218119-12). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-1 0-1

Lab Sample ID: 480-218119-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	68	J	230	23	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	53	J	230	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	75	J	230	36	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	32	J	230	24	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	30	J	230	29	ug/Kg	1	✱	8270D	Total/NA
Chrysene	78	J	230	51	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	140	J	230	24	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	34	J	230	28	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	100	J	230	33	ug/Kg	1	✱	8270D	Total/NA
Pyrene	100	J	230	27	ug/Kg	1	✱	8270D	Total/NA
Arsenic	5.6		2.6	0.52	mg/Kg	1	✱	6010C	Total/NA
Barium	104		0.65	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.73		0.26	0.037	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.13	J B	0.26	0.039	mg/Kg	1	✱	6010C	Total/NA
Chromium	26.9		0.65	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	33.5		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	127		1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	302	B	0.26	0.042	mg/Kg	1	✱	6010C	Total/NA
Nickel	20.0		6.5	0.30	mg/Kg	1	✱	6010C	Total/NA
Zinc	88.2		2.6	0.84	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.11		0.026	0.0060	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-2 2-4

Lab Sample ID: 480-218119-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	110	J	220	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	130	J	220	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	140	J	220	35	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	77	J	220	23	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	61	J	220	28	ug/Kg	1	✱	8270D	Total/NA
Chrysene	120	J	220	49	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	210	J	220	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	75	J	220	27	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	85	J	220	32	ug/Kg	1	✱	8270D	Total/NA
Pyrene	200	J	220	26	ug/Kg	1	✱	8270D	Total/NA
Arsenic	7.0		2.7	0.53	mg/Kg	1	✱	6010C	Total/NA
Barium	113		0.67	0.15	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.74		0.27	0.037	mg/Kg	1	✱	6010C	Total/NA
Chromium	39.7		0.67	0.27	mg/Kg	1	✱	6010C	Total/NA
Copper	46.7		1.3	0.28	mg/Kg	1	✱	6010C	Total/NA
Lead	359		1.3	0.32	mg/Kg	1	✱	6010C	Total/NA
Manganese	416	B	0.27	0.043	mg/Kg	1	✱	6010C	Total/NA
Nickel	21.6		6.7	0.31	mg/Kg	1	✱	6010C	Total/NA
Zinc	83.3		2.7	0.86	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.26		0.026	0.0059	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-3 1-3

Lab Sample ID: 480-218119-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	140	J	900	90	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	150	J	900	130	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	160	J	900	140	ug/Kg	5	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-3 1-3 (Continued)

Lab Sample ID: 480-218119-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	240	J	900	95	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	140	J	900	130	ug/Kg	5	✱	8270D	Total/NA
Pyrene	220	J	900	110	ug/Kg	5	✱	8270D	Total/NA
Arsenic	3.4		2.1	0.43	mg/Kg	1	✱	6010C	Total/NA
Barium	76.2		0.53	0.12	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.49		0.21	0.030	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.24	B	0.21	0.032	mg/Kg	1	✱	6010C	Total/NA
Chromium	15.9		0.53	0.21	mg/Kg	1	✱	6010C	Total/NA
Copper	21.0		1.1	0.22	mg/Kg	1	✱	6010C	Total/NA
Lead	50.1		1.1	0.26	mg/Kg	1	✱	6010C	Total/NA
Manganese	216	B	0.21	0.034	mg/Kg	1	✱	6010C	Total/NA
Nickel	11.8		5.3	0.24	mg/Kg	1	✱	6010C	Total/NA
Zinc	60.7		2.1	0.68	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.065		0.021	0.0048	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-4 1-3

Lab Sample ID: 480-218119-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1100	J	2100	300	ug/Kg	10	✱	8270D	Total/NA
Anthracene	1900	J	2100	510	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	4700		2100	210	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	4600		2100	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	4700		2100	330	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	2200		2100	220	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	2600		2100	270	ug/Kg	10	✱	8270D	Total/NA
Chrysene	4400		2100	460	ug/Kg	10	✱	8270D	Total/NA
Dibenz(a,h)anthracene	730	J	2100	360	ug/Kg	10	✱	8270D	Total/NA
Dibenzofuran	540	J	2100	240	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	10000		2100	220	ug/Kg	10	✱	8270D	Total/NA
Fluorene	810	J	2100	240	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2300		2100	260	ug/Kg	10	✱	8270D	Total/NA
Naphthalene	300	J	2100	270	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	7700		2100	300	ug/Kg	10	✱	8270D	Total/NA
Pyrene	8500		2100	240	ug/Kg	10	✱	8270D	Total/NA
Arsenic	6.2		2.6	0.52	mg/Kg	1	✱	6010C	Total/NA
Barium	108		0.65	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.79		0.26	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.31	B	0.26	0.039	mg/Kg	1	✱	6010C	Total/NA
Chromium	27.5		0.65	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	26.7		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	123		1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	494	B	0.26	0.041	mg/Kg	1	✱	6010C	Total/NA
Nickel	27.6		6.5	0.30	mg/Kg	1	✱	6010C	Total/NA
Zinc	113		2.6	0.83	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.20		0.025	0.0057	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-5 1-3

Lab Sample ID: 480-218119-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J vs *+	33	5.6	ug/Kg	1	✱	8260C	Total/NA
Fluoranthene	5500	J	22000	2400	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	3900	J	22000	3300	ug/Kg	10	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-5 1-3 (Continued)

Lab Sample ID: 480-218119-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	4100	J	22000	2600	ug/Kg	10	✱	8270D	Total/NA
Arsenic	3.3		2.8	0.56	mg/Kg	1	✱	6010C	Total/NA
Barium	59.0		0.70	0.15	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.42		0.28	0.039	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.21	J B	0.28	0.042	mg/Kg	1	✱	6010C	Total/NA
Chromium	14.7		0.70	0.28	mg/Kg	1	✱	6010C	Total/NA
Copper	12.8		1.4	0.29	mg/Kg	1	✱	6010C	Total/NA
Lead	38.7		1.4	0.33	mg/Kg	1	✱	6010C	Total/NA
Manganese	218	B	0.28	0.045	mg/Kg	1	✱	6010C	Total/NA
Nickel	12.4		7.0	0.32	mg/Kg	1	✱	6010C	Total/NA
Zinc	49.0		2.8	0.89	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.059		0.027	0.0061	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-6 1-3

Lab Sample ID: 480-218119-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	36	J	210	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	42	J	210	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	60	J	210	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	31	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Chrysene	55	J	210	46	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	110	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	30	J	210	26	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	54	J	210	30	ug/Kg	1	✱	8270D	Total/NA
Pyrene	90	J	210	24	ug/Kg	1	✱	8270D	Total/NA
Arsenic	3.5		2.6	0.51	mg/Kg	1	✱	6010C	Total/NA
Barium	112		0.64	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.77		0.26	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.15	J B	0.26	0.038	mg/Kg	1	✱	6010C	Total/NA
Chromium	28.3		0.64	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	12.5		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	49.9		1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	208	B	0.26	0.041	mg/Kg	1	✱	6010C	Total/NA
Nickel	16.4		6.4	0.29	mg/Kg	1	✱	6010C	Total/NA
Zinc	63.8		2.6	0.82	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.065		0.024	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-7 1-3

Lab Sample ID: 480-218119-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.0	J vs *+	30	5.1	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	240	J	1100	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	510	J	1100	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	760	J	1100	170	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	630	J	1100	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	300	J	1100	140	ug/Kg	5	✱	8270D	Total/NA
Chrysene	460	J	1100	240	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	770	J	1100	110	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	490	J	1100	130	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	300	J	1100	160	ug/Kg	5	✱	8270D	Total/NA
Pyrene	580	J	1100	130	ug/Kg	5	✱	8270D	Total/NA
Arsenic	4.1		2.6	0.53	mg/Kg	1	✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-7 1-3 (Continued)

Lab Sample ID: 480-218119-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	116		0.66	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.84		0.26	0.037	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.20	J B	0.26	0.039	mg/Kg	1	✱	6010C	Total/NA
Chromium	19.8		0.66	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	11.0		1.3	0.28	mg/Kg	1	✱	6010C	Total/NA
Lead	35.6		1.3	0.32	mg/Kg	1	✱	6010C	Total/NA
Manganese	294	B	0.26	0.042	mg/Kg	1	✱	6010C	Total/NA
Nickel	10.7		6.6	0.30	mg/Kg	1	✱	6010C	Total/NA
Zinc	58.3		2.6	0.84	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.089		0.024	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-8 1-2

Lab Sample ID: 480-218119-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	7200		4500	660	ug/Kg	20	✱	8270D	Total/NA
Acenaphthylene	6400		4500	580	ug/Kg	20	✱	8270D	Total/NA
Anthracene	31000		4500	1100	ug/Kg	20	✱	8270D	Total/NA
Benzo[a]anthracene	61000		4500	450	ug/Kg	20	✱	8270D	Total/NA
Benzo[a]pyrene	55000		4500	660	ug/Kg	20	✱	8270D	Total/NA
Benzo[b]fluoranthene	62000		4500	710	ug/Kg	20	✱	8270D	Total/NA
Benzo[g,h,i]perylene	13000		4500	470	ug/Kg	20	✱	8270D	Total/NA
Benzo[k]fluoranthene	24000		4500	580	ug/Kg	20	✱	8270D	Total/NA
Chrysene	56000		4500	1000	ug/Kg	20	✱	8270D	Total/NA
Dibenz(a,h)anthracene	4800		4500	790	ug/Kg	20	✱	8270D	Total/NA
Dibenzofuran	6600		4500	520	ug/Kg	20	✱	8270D	Total/NA
Fluoranthene	130000		4500	470	ug/Kg	20	✱	8270D	Total/NA
Fluorene	15000		4500	520	ug/Kg	20	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	15000		4500	550	ug/Kg	20	✱	8270D	Total/NA
Naphthalene	1400	J	4500	580	ug/Kg	20	✱	8270D	Total/NA
Phenanthrene	120000		4500	660	ug/Kg	20	✱	8270D	Total/NA
Pyrene	110000		4500	520	ug/Kg	20	✱	8270D	Total/NA
Arsenic	12.8		2.7	0.53	mg/Kg	1	✱	6010C	Total/NA
Barium	217		0.67	0.15	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.89		0.27	0.037	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.67	B	0.27	0.040	mg/Kg	1	✱	6010C	Total/NA
Chromium	27.3		0.67	0.27	mg/Kg	1	✱	6010C	Total/NA
Copper	54.7		1.3	0.28	mg/Kg	1	✱	6010C	Total/NA
Lead	456		1.3	0.32	mg/Kg	1	✱	6010C	Total/NA
Manganese	1240	B	0.27	0.043	mg/Kg	1	✱	6010C	Total/NA
Nickel	25.1		6.7	0.31	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.55	J	5.3	0.53	mg/Kg	1	✱	6010C	Total/NA
Zinc	243		2.7	0.85	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.26		0.027	0.0062	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-9 1-2

Lab Sample ID: 480-218119-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	550	J	1100	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	620	J	1100	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	850	J	1100	170	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	250	J	1100	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	400	J	1100	140	ug/Kg	5	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-9 1-2 (Continued)

Lab Sample ID: 480-218119-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	770	J	1100	240	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	1900		1100	110	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	280	J	1100	130	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	1200		1100	160	ug/Kg	5	✱	8270D	Total/NA
Pyrene	1300		1100	130	ug/Kg	5	✱	8270D	Total/NA
Arsenic	5.0		2.6	0.52	mg/Kg	1	✱	6010C	Total/NA
Barium	123		0.65	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.68		0.26	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.18	J B	0.26	0.039	mg/Kg	1	✱	6010C	Total/NA
Chromium	26.6		0.65	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	28.6		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	219		1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	212	B	0.26	0.041	mg/Kg	1	✱	6010C	Total/NA
Nickel	17.1		6.5	0.30	mg/Kg	1	✱	6010C	Total/NA
Zinc	97.5		2.6	0.83	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.087		0.026	0.0059	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-10 0-1

Lab Sample ID: 480-218119-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	130	J	210	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	120	J	210	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	140	J	210	34	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	81	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	83	J	210	27	ug/Kg	1	✱	8270D	Total/NA
Chrysene	130	J	210	47	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	260		210	22	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	60	J	210	26	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	160	J	210	31	ug/Kg	1	✱	8270D	Total/NA
Pyrene	220		210	25	ug/Kg	1	✱	8270D	Total/NA
Arsenic	6.5		2.5	0.51	mg/Kg	1	✱	6010C	Total/NA
Barium	109		0.64	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.80		0.25	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.33	B	0.25	0.038	mg/Kg	1	✱	6010C	Total/NA
Chromium	23.0		0.64	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	112		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	121		1.3	0.30	mg/Kg	1	✱	6010C	Total/NA
Manganese	377	B	0.25	0.041	mg/Kg	1	✱	6010C	Total/NA
Nickel	28.8		6.4	0.29	mg/Kg	1	✱	6010C	Total/NA
Zinc	145		2.5	0.81	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.26		0.025	0.0057	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-11 4-5

Lab Sample ID: 480-218119-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	45	J	210	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	43	J	210	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	56	J	210	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	29	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	85	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	47	J	210	30	ug/Kg	1	✱	8270D	Total/NA
Pyrene	77	J	210	24	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-11 4-5 (Continued)

Lab Sample ID: 480-218119-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.9		2.5	0.50	mg/Kg	1	✱	6010C	Total/NA
Barium	104		0.62	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.68		0.25	0.035	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.13	J B	0.25	0.037	mg/Kg	1	✱	6010C	Total/NA
Chromium	22.6		0.62	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	17.0		1.2	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	332		1.2	0.30	mg/Kg	1	✱	6010C	Total/NA
Manganese	292	B	0.25	0.040	mg/Kg	1	✱	6010C	Total/NA
Nickel	16.0		6.2	0.28	mg/Kg	1	✱	6010C	Total/NA
Zinc	58.0		2.5	0.79	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.069		0.023	0.0054	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-12 1-3

Lab Sample ID: 480-218119-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	3300	J	19000	2000	ug/Kg	10	✱	8270D	Total/NA
Pyrene	2700	J	19000	2200	ug/Kg	10	✱	8270D	Total/NA
Arsenic	4.7		2.4	0.48	mg/Kg	1	✱	6010C	Total/NA
Barium	82.4		0.59	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	1.7		0.24	0.033	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.21	J B	0.24	0.036	mg/Kg	1	✱	6010C	Total/NA
Chromium	11.9		0.59	0.24	mg/Kg	1	✱	6010C	Total/NA
Copper	8.7		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	41.6		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	441	B	0.24	0.038	mg/Kg	1	✱	6010C	Total/NA
Nickel	10.1		5.9	0.27	mg/Kg	1	✱	6010C	Total/NA
Zinc	41.1		2.4	0.76	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.56		0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-13 1-2

Lab Sample ID: 480-218119-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	270	J	1100	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	250	J	1100	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	320	J	1100	180	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	170	J	1100	120	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	190	J	1100	140	ug/Kg	5	✱	8270D	Total/NA
Chrysene	320	J	1100	250	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	860	J	1100	120	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	560	J	1100	160	ug/Kg	5	✱	8270D	Total/NA
Pyrene	630	J	1100	130	ug/Kg	5	✱	8270D	Total/NA
Arsenic	9.5		2.7	0.54	mg/Kg	1	✱	6010C	Total/NA
Barium	89.0		0.67	0.15	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.93		0.27	0.038	mg/Kg	1	✱	6010C	Total/NA
Chromium	31.5		0.67	0.27	mg/Kg	1	✱	6010C	Total/NA
Copper	8.7		1.3	0.28	mg/Kg	1	✱	6010C	Total/NA
Lead	130		1.3	0.32	mg/Kg	1	✱	6010C	Total/NA
Manganese	230	B	0.27	0.043	mg/Kg	1	✱	6010C	Total/NA
Nickel	18.9		6.7	0.31	mg/Kg	1	✱	6010C	Total/NA
Zinc	67.3		2.7	0.86	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.047		0.026	0.0059	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-1 0-1

Lab Sample ID: 480-218119-1

Date Collected: 03/25/24 08:45

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 73.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.8	U vs	6.8	0.49	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
1,1-Dichloroethane	6.8	U vs	6.8	0.83	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
1,1-Dichloroethene	6.8	U vs	6.8	0.83	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
1,2,4-Trimethylbenzene	6.8	U vs	6.8	1.3	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
1,2-Dichlorobenzene	6.8	U vs	6.8	0.53	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
1,2-Dichloroethane	6.8	U vs	6.8	0.34	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
1,3,5-Trimethylbenzene	6.8	U vs	6.8	0.44	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
1,3-Dichlorobenzene	6.8	U vs	6.8	0.35	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
1,4-Dichlorobenzene	6.8	U vs	6.8	0.95	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
1,4-Dioxane	140	U vs	140	30	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
2-Butanone (MEK)	34	U vs *+	34	2.5	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Acetone	34	U vs *+	34	5.7	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Benzene	6.8	U vs	6.8	0.33	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Carbon tetrachloride	6.8	U vs	6.8	0.66	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Chlorobenzene	6.8	U vs	6.8	0.90	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Chloroform	6.8	U vs	6.8	0.42	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
cis-1,2-Dichloroethene	6.8	U vs	6.8	0.87	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Ethylbenzene	6.8	U vs	6.8	0.47	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Methyl tert-butyl ether	6.8	U vs	6.8	0.67	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Methylene Chloride	6.8	U vs	6.8	3.1	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
n-Butylbenzene	6.8	U vs	6.8	0.59	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
N-Propylbenzene	6.8	U vs	6.8	0.54	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
sec-Butylbenzene	6.8	U vs	6.8	0.59	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
tert-Butylbenzene	6.8	U vs	6.8	0.71	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Tetrachloroethene	6.8	U vs	6.8	0.91	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Toluene	6.8	U vs	6.8	0.51	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
trans-1,2-Dichloroethene	6.8	U vs	6.8	0.70	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Trichloroethene	6.8	U vs	6.8	1.5	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Vinyl chloride	6.8	U vs	6.8	0.83	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1
Xylenes, Total	14	U vs	14	1.1	ug/Kg	✱	03/26/24 17:19	04/02/24 16:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	03/26/24 17:19	04/02/24 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	03/26/24 17:19	04/02/24 16:09	1
4-Bromofluorobenzene (Surr)	101		72 - 126	03/26/24 17:19	04/02/24 16:09	1
Dibromofluoromethane (Surr)	103		60 - 140	03/26/24 17:19	04/02/24 16:09	1
Toluene-d8 (Surr)	115		71 - 125	03/26/24 17:19	04/02/24 16:09	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	130	U	130	73	ug/Kg	✱	03/26/24 16:46	03/28/24 19:01	1
2-Methylphenol	230	U	230	27	ug/Kg	✱	03/26/24 16:46	03/28/24 19:01	1
3-Methylphenol	440	U	440	35	ug/Kg	✱	03/26/24 16:46	03/28/24 19:01	1
4-Methylphenol	440	U	440	27	ug/Kg	✱	03/26/24 16:46	03/28/24 19:01	1
Acenaphthene	230	U	230	33	ug/Kg	✱	03/26/24 16:46	03/28/24 19:01	1
Acenaphthylene	230	U	230	29	ug/Kg	✱	03/26/24 16:46	03/28/24 19:01	1
Anthracene	230	U	230	56	ug/Kg	✱	03/26/24 16:46	03/28/24 19:01	1
Benzo[a]anthracene	68	J	230	23	ug/Kg	✱	03/26/24 16:46	03/28/24 19:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-1 0-1

Lab Sample ID: 480-218119-1

Date Collected: 03/25/24 08:45

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 73.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	53	J	230	33	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Benzo[b]fluoranthene	75	J	230	36	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Benzo[g,h,i]perylene	32	J	230	24	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Benzo[k]fluoranthene	30	J	230	29	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Chrysene	78	J	230	51	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Dibenz(a,h)anthracene	230	U	230	40	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Dibenzofuran	230	U	230	27	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Fluoranthene	140	J	230	24	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Fluorene	230	U	230	27	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Hexachlorobenzene	230	U	230	31	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Indeno[1,2,3-cd]pyrene	34	J	230	28	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Naphthalene	230	U	230	29	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Pentachlorophenol	440	U	440	230	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Phenanthrene	100	J	230	33	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Phenol	230	U	230	35	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1
Pyrene	100	J	230	27	ug/Kg	☆	03/26/24 16:46	03/28/24 19:01	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	180	T J	ug/Kg	☆	2.94	N/A	03/26/24 16:46	03/28/24 19:01	1
Unknown	1100	T J	ug/Kg	☆	2.97	N/A	03/26/24 16:46	03/28/24 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		54 - 120	03/26/24 16:46	03/28/24 19:01	1
2-Fluorobiphenyl (Surr)	85		60 - 120	03/26/24 16:46	03/28/24 19:01	1
2-Fluorophenol (Surr)	81		52 - 120	03/26/24 16:46	03/28/24 19:01	1
Nitrobenzene-d5 (Surr)	78		53 - 120	03/26/24 16:46	03/28/24 19:01	1
Phenol-d5 (Surr)	82		54 - 120	03/26/24 16:46	03/28/24 19:01	1
p-Terphenyl-d14 (Surr)	100		79 - 130	03/26/24 16:46	03/28/24 19:01	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		2.6	0.52	mg/Kg	☆	03/27/24 15:45	03/29/24 15:52	1
Barium	104		0.65	0.14	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Beryllium	0.73		0.26	0.037	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Cadmium	0.13	J B	0.26	0.039	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Chromium	26.9		0.65	0.26	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Copper	33.5		1.3	0.27	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Lead	127		1.3	0.31	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Manganese	302	B	0.26	0.042	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Nickel	20.0		6.5	0.30	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Selenium	5.2	U	5.2	0.52	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Silver	0.78	U	0.78	0.26	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1
Zinc	88.2		2.6	0.84	mg/Kg	☆	03/27/24 15:45	03/28/24 18:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.026	0.0060	mg/Kg	☆	04/05/24 17:14	04/06/24 16:35	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-2 2-4

Lab Sample ID: 480-218119-2

Date Collected: 03/25/24 09:00

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 76.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.4	U vs	6.4	0.47	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
1,1-Dichloroethane	6.4	U vs	6.4	0.78	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
1,1-Dichloroethene	6.4	U vs	6.4	0.79	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
1,2,4-Trimethylbenzene	6.4	U vs	6.4	1.2	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
1,2-Dichlorobenzene	6.4	U vs	6.4	0.50	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
1,2-Dichloroethane	6.4	U vs	6.4	0.32	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
1,3,5-Trimethylbenzene	6.4	U vs	6.4	0.41	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
1,3-Dichlorobenzene	6.4	U vs	6.4	0.33	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
1,4-Dichlorobenzene	6.4	U vs	6.4	0.90	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
1,4-Dioxane	130	U vs	130	28	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
2-Butanone (MEK)	32	U vs *+	32	2.4	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Acetone	32	U vs *+	32	5.4	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Benzene	6.4	U vs	6.4	0.32	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Carbon tetrachloride	6.4	U vs	6.4	0.62	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Chlorobenzene	6.4	U vs	6.4	0.85	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Chloroform	6.4	U vs	6.4	0.40	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
cis-1,2-Dichloroethene	6.4	U vs	6.4	0.82	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Ethylbenzene	6.4	U vs	6.4	0.44	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Methyl tert-butyl ether	6.4	U vs	6.4	0.63	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Methylene Chloride	6.4	U vs	6.4	3.0	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
n-Butylbenzene	6.4	U vs	6.4	0.56	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
N-Propylbenzene	6.4	U vs	6.4	0.51	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
sec-Butylbenzene	6.4	U vs	6.4	0.56	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
tert-Butylbenzene	6.4	U vs	6.4	0.67	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Tetrachloroethene	6.4	U vs	6.4	0.86	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Toluene	6.4	U vs	6.4	0.49	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
trans-1,2-Dichloroethene	6.4	U vs	6.4	0.66	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Trichloroethene	6.4	U vs	6.4	1.4	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Vinyl chloride	6.4	U vs	6.4	0.78	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1
Xylenes, Total	13	U vs	13	1.1	ug/Kg	✱	03/26/24 17:19	04/02/24 16:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	03/26/24 17:19	04/02/24 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	03/26/24 17:19	04/02/24 16:33	1
4-Bromofluorobenzene (Surr)	102		72 - 126	03/26/24 17:19	04/02/24 16:33	1
Dibromofluoromethane (Surr)	103		60 - 140	03/26/24 17:19	04/02/24 16:33	1
Toluene-d8 (Surr)	114		71 - 125	03/26/24 17:19	04/02/24 16:33	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	130	U	130	71	ug/Kg	✱	03/26/24 16:46	03/28/24 19:26	1
2-Methylphenol	220	U	220	26	ug/Kg	✱	03/26/24 16:46	03/28/24 19:26	1
3-Methylphenol	420	U	420	33	ug/Kg	✱	03/26/24 16:46	03/28/24 19:26	1
4-Methylphenol	420	U	420	26	ug/Kg	✱	03/26/24 16:46	03/28/24 19:26	1
Acenaphthene	220	U	220	32	ug/Kg	✱	03/26/24 16:46	03/28/24 19:26	1
Acenaphthylene	220	U	220	28	ug/Kg	✱	03/26/24 16:46	03/28/24 19:26	1
Anthracene	220	U	220	54	ug/Kg	✱	03/26/24 16:46	03/28/24 19:26	1
Benzo[a]anthracene	110	J	220	22	ug/Kg	✱	03/26/24 16:46	03/28/24 19:26	1

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-2 2-4

Lab Sample ID: 480-218119-2

Date Collected: 03/25/24 09:00

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 76.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	130	J	220	32	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Benzo[b]fluoranthene	140	J	220	35	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Benzo[g,h,i]perylene	77	J	220	23	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Benzo[k]fluoranthene	61	J	220	28	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Chrysene	120	J	220	49	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Dibenz(a,h)anthracene	220	U	220	39	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Dibenzofuran	220	U	220	26	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Fluoranthene	210	J	220	23	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Fluorene	220	U	220	26	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Hexachlorobenzene	220	U	220	30	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Indeno[1,2,3-cd]pyrene	75	J	220	27	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Naphthalene	220	U	220	28	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Pentachlorophenol	420	U	420	220	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Phenanthrene	85	J	220	32	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Phenol	220	U	220	33	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1
Pyrene	200	J	220	26	ug/Kg	☆	03/26/24 16:46	03/28/24 19:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	220	T J	ug/Kg	☆	2.94	N/A	03/26/24 16:46	03/28/24 19:26	1
Unknown	1100	T J	ug/Kg	☆	2.97	N/A	03/26/24 16:46	03/28/24 19:26	1
Octadecane	180	T J N	ug/Kg	☆	13.48	593-45-3	03/26/24 16:46	03/28/24 19:26	1
Friedelin	240	T J N	ug/Kg	☆	16.22	559-74-0	03/26/24 16:46	03/28/24 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		54 - 120	03/26/24 16:46	03/28/24 19:26	1
2-Fluorobiphenyl (Surr)	89		60 - 120	03/26/24 16:46	03/28/24 19:26	1
2-Fluorophenol (Surr)	85		52 - 120	03/26/24 16:46	03/28/24 19:26	1
Nitrobenzene-d5 (Surr)	81		53 - 120	03/26/24 16:46	03/28/24 19:26	1
Phenol-d5 (Surr)	89		54 - 120	03/26/24 16:46	03/28/24 19:26	1
p-Terphenyl-d14 (Surr)	99		79 - 130	03/26/24 16:46	03/28/24 19:26	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		2.7	0.53	mg/Kg	☆	03/27/24 15:45	03/29/24 15:55	1
Barium	113		0.67	0.15	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Beryllium	0.74		0.27	0.037	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Cadmium	0.27	U	0.27	0.040	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Chromium	39.7		0.67	0.27	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Copper	46.7		1.3	0.28	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Lead	359		1.3	0.32	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Manganese	416	B	0.27	0.043	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Nickel	21.6		6.7	0.31	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Selenium	5.3	U	5.3	0.53	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Silver	0.80	U	0.80	0.27	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1
Zinc	83.3		2.7	0.86	mg/Kg	☆	03/27/24 15:45	03/28/24 18:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.026	0.0059	mg/Kg	☆	04/05/24 17:14	04/06/24 16:36	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-3 1-3

Lab Sample ID: 480-218119-3

Date Collected: 03/25/24 09:45

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 92.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U vs	5.3	0.39	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
1,1-Dichloroethane	5.3	U vs	5.3	0.65	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
1,1-Dichloroethene	5.3	U vs	5.3	0.65	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
1,2,4-Trimethylbenzene	5.3	U vs	5.3	1.0	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
1,2-Dichlorobenzene	5.3	U vs	5.3	0.41	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
1,2-Dichloroethane	5.3	U vs	5.3	0.27	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
1,3,5-Trimethylbenzene	5.3	U vs	5.3	0.34	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
1,4-Dichlorobenzene	5.3	U vs	5.3	0.74	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
1,4-Dioxane	110	U vs	110	23	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
2-Butanone (MEK)	27	U vs *+	27	1.9	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Acetone	27	U vs *+	27	4.5	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Benzene	5.3	U vs	5.3	0.26	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Carbon tetrachloride	5.3	U vs	5.3	0.51	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Chlorobenzene	5.3	U vs	5.3	0.70	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Chloroform	5.3	U vs	5.3	0.33	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Ethylbenzene	5.3	U vs	5.3	0.37	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Methyl tert-butyl ether	5.3	U vs	5.3	0.52	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Methylene Chloride	5.3	U vs	5.3	2.4	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
n-Butylbenzene	5.3	U vs	5.3	0.46	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
N-Propylbenzene	5.3	U vs	5.3	0.42	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
sec-Butylbenzene	5.3	U vs	5.3	0.46	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
tert-Butylbenzene	5.3	U vs	5.3	0.55	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Tetrachloroethene	5.3	U vs	5.3	0.71	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Toluene	5.3	U vs	5.3	0.40	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Trichloroethene	5.3	U vs	5.3	1.2	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Vinyl chloride	5.3	U vs	5.3	0.65	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1
Xylenes, Total	11	U vs	11	0.89	ug/Kg	✱	03/26/24 17:19	04/02/24 16:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	03/26/24 17:19	04/02/24 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 126	03/26/24 17:19	04/02/24 16:57	1
4-Bromofluorobenzene (Surr)	102		72 - 126	03/26/24 17:19	04/02/24 16:57	1
Dibromofluoromethane (Surr)	99		60 - 140	03/26/24 17:19	04/02/24 16:57	1
Toluene-d8 (Surr)	115		71 - 125	03/26/24 17:19	04/02/24 16:57	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	530	U	530	290	ug/Kg	✱	03/26/24 16:46	03/28/24 19:51	5
2-Methylphenol	900	U	900	110	ug/Kg	✱	03/26/24 16:46	03/28/24 19:51	5
3-Methylphenol	1700	U	1700	140	ug/Kg	✱	03/26/24 16:46	03/28/24 19:51	5
4-Methylphenol	1700	U	1700	110	ug/Kg	✱	03/26/24 16:46	03/28/24 19:51	5
Acenaphthene	900	U	900	130	ug/Kg	✱	03/26/24 16:46	03/28/24 19:51	5
Acenaphthylene	900	U	900	120	ug/Kg	✱	03/26/24 16:46	03/28/24 19:51	5
Anthracene	900	U	900	220	ug/Kg	✱	03/26/24 16:46	03/28/24 19:51	5
Benzo[a]anthracene	140	J	900	90	ug/Kg	✱	03/26/24 16:46	03/28/24 19:51	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-3 1-3

Lab Sample ID: 480-218119-3

Date Collected: 03/25/24 09:45

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 92.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	150	J	900	130	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Benzo[b]fluoranthene	160	J	900	140	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Benzo[g,h,i]perylene	900	U	900	95	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Benzo[k]fluoranthene	900	U	900	120	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Chrysene	900	U	900	200	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Dibenz(a,h)anthracene	900	U	900	160	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Dibenzofuran	900	U	900	110	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Fluoranthene	240	J	900	95	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Fluorene	900	U	900	110	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Hexachlorobenzene	900	U	900	120	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Indeno[1,2,3-cd]pyrene	900	U	900	110	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Naphthalene	900	U	900	120	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Pentachlorophenol	1700	U	1700	900	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Phenanthrene	140	J	900	130	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Phenol	900	U	900	140	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5
Pyrene	220	J	900	110	ug/Kg	☆	03/26/24 16:46	03/28/24 19:51	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☆		N/A	03/26/24 16:46	03/28/24 19:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		54 - 120	03/26/24 16:46	03/28/24 19:51	5
2-Fluorobiphenyl (Surr)	81		60 - 120	03/26/24 16:46	03/28/24 19:51	5
2-Fluorophenol (Surr)	76		52 - 120	03/26/24 16:46	03/28/24 19:51	5
Nitrobenzene-d5 (Surr)	72		53 - 120	03/26/24 16:46	03/28/24 19:51	5
Phenol-d5 (Surr)	77		54 - 120	03/26/24 16:46	03/28/24 19:51	5
p-Terphenyl-d14 (Surr)	86		79 - 130	03/26/24 16:46	03/28/24 19:51	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		2.1	0.43	mg/Kg	☆	03/27/24 15:45	03/29/24 15:59	1
Barium	76.2		0.53	0.12	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Beryllium	0.49		0.21	0.030	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Cadmium	0.24	B	0.21	0.032	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Chromium	15.9		0.53	0.21	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Copper	21.0		1.1	0.22	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Lead	50.1		1.1	0.26	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Manganese	216	B	0.21	0.034	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Nickel	11.8		5.3	0.24	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Selenium	4.3	U	4.3	0.43	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Silver	0.64	U	0.64	0.21	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1
Zinc	60.7		2.1	0.68	mg/Kg	☆	03/27/24 15:45	03/28/24 18:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.021	0.0048	mg/Kg	☆	04/06/24 12:56	04/06/24 16:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-4 1-3

Lab Sample ID: 480-218119-4

Date Collected: 03/25/24 09:55

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 80.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.0	U vs	6.0	0.43	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
1,1-Dichloroethane	6.0	U vs	6.0	0.73	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
1,1-Dichloroethene	6.0	U vs	6.0	0.73	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
1,2,4-Trimethylbenzene	6.0	U vs	6.0	1.1	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
1,2-Dichlorobenzene	6.0	U vs	6.0	0.47	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
1,2-Dichloroethane	6.0	U vs	6.0	0.30	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
1,3,5-Trimethylbenzene	6.0	U vs	6.0	0.38	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
1,3-Dichlorobenzene	6.0	U vs	6.0	0.31	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
1,4-Dichlorobenzene	6.0	U vs	6.0	0.84	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
1,4-Dioxane	120	U vs	120	26	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
2-Butanone (MEK)	30	U vs *+	30	2.2	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Acetone	30	U vs *+	30	5.0	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Benzene	6.0	U vs	6.0	0.29	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Carbon tetrachloride	6.0	U vs	6.0	0.58	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Chlorobenzene	6.0	U vs	6.0	0.79	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Chloroform	6.0	U vs	6.0	0.37	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
cis-1,2-Dichloroethene	6.0	U vs	6.0	0.77	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Ethylbenzene	6.0	U vs	6.0	0.41	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Methyl tert-butyl ether	6.0	U vs	6.0	0.59	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Methylene Chloride	6.0	U vs	6.0	2.7	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
n-Butylbenzene	6.0	U vs	6.0	0.52	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
N-Propylbenzene	6.0	U vs	6.0	0.48	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
sec-Butylbenzene	6.0	U vs	6.0	0.52	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
tert-Butylbenzene	6.0	U vs	6.0	0.62	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Tetrachloroethene	6.0	U vs	6.0	0.80	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Toluene	6.0	U vs	6.0	0.45	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
trans-1,2-Dichloroethene	6.0	U vs	6.0	0.62	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Trichloroethene	6.0	U vs	6.0	1.3	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Vinyl chloride	6.0	U vs	6.0	0.73	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1
Xylenes, Total	12	U vs	12	1.0	ug/Kg	☆	03/26/24 17:19	04/02/24 17:20	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☆		N/A	03/26/24 17:19	04/02/24 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	03/26/24 17:19	04/02/24 17:20	1
4-Bromofluorobenzene (Surr)	102		72 - 126	03/26/24 17:19	04/02/24 17:20	1
Dibromofluoromethane (Surr)	106		60 - 140	03/26/24 17:19	04/02/24 17:20	1
Toluene-d8 (Surr)	117		71 - 125	03/26/24 17:19	04/02/24 17:20	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1200	U	1200	670	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
2-Methylphenol	2100	U	2100	240	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
3-Methylphenol	4000	U	4000	320	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
4-Methylphenol	4000	U	4000	240	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Acenaphthene	1100	J	2100	300	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Acenaphthylene	2100	U	2100	270	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Anthracene	1900	J	2100	510	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Benzo[a]anthracene	4700		2100	210	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-4 1-3

Lab Sample ID: 480-218119-4

Date Collected: 03/25/24 09:55

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 80.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	4600		2100	300	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Benzo[b]fluoranthene	4700		2100	330	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Benzo[g,h,i]perylene	2200		2100	220	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Benzo[k]fluoranthene	2600		2100	270	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Chrysene	4400		2100	460	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Dibenz(a,h)anthracene	730 J		2100	360	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Dibenzofuran	540 J		2100	240	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Fluoranthene	10000		2100	220	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Fluorene	810 J		2100	240	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Hexachlorobenzene	2100 U		2100	280	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Indeno[1,2,3-cd]pyrene	2300		2100	260	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Naphthalene	300 J		2100	270	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Pentachlorophenol	4000 U		4000	2100	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Phenanthrene	7700		2100	300	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Phenol	2100 U		2100	320	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10
Pyrene	8500		2100	240	ug/Kg	☆	03/26/24 16:46	03/28/24 20:16	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1800	T J	ug/Kg	☆	11.23	N/A	03/26/24 16:46	03/28/24 20:16	10
Perylene	2700	T J N	ug/Kg	☆	14.07	198-55-0	03/26/24 16:46	03/28/24 20:16	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		54 - 120	03/26/24 16:46	03/28/24 20:16	10
2-Fluorobiphenyl (Surr)	86		60 - 120	03/26/24 16:46	03/28/24 20:16	10
2-Fluorophenol (Surr)	83		52 - 120	03/26/24 16:46	03/28/24 20:16	10
Nitrobenzene-d5 (Surr)	83		53 - 120	03/26/24 16:46	03/28/24 20:16	10
Phenol-d5 (Surr)	90		54 - 120	03/26/24 16:46	03/28/24 20:16	10
p-Terphenyl-d14 (Surr)	95		79 - 130	03/26/24 16:46	03/28/24 20:16	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		2.6	0.52	mg/Kg	☆	03/27/24 15:45	03/29/24 16:12	1
Barium	108		0.65	0.14	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Beryllium	0.79		0.26	0.036	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Cadmium	0.31 B		0.26	0.039	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Chromium	27.5		0.65	0.26	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Copper	26.7		1.3	0.27	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Lead	123		1.3	0.31	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Manganese	494 B		0.26	0.041	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Nickel	27.6		6.5	0.30	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Selenium	5.2 U		5.2	0.52	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Silver	0.78 U		0.78	0.26	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1
Zinc	113		2.6	0.83	mg/Kg	☆	03/27/24 15:45	03/28/24 18:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.025	0.0057	mg/Kg	☆	04/06/24 12:56	04/06/24 16:44	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-5 1-3

Lab Sample ID: 480-218119-5

Date Collected: 03/25/24 10:00

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 74.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.6	U vs	6.6	0.48	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
1,1-Dichloroethane	6.6	U vs	6.6	0.81	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
1,1-Dichloroethene	6.6	U vs	6.6	0.81	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
1,2,4-Trimethylbenzene	6.6	U vs	6.6	1.3	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
1,2-Dichlorobenzene	6.6	U vs	6.6	0.52	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
1,2-Dichloroethane	6.6	U vs	6.6	0.33	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
1,3,5-Trimethylbenzene	6.6	U vs	6.6	0.43	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
1,3-Dichlorobenzene	6.6	U vs	6.6	0.34	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
1,4-Dichlorobenzene	6.6	U vs	6.6	0.93	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
1,4-Dioxane	130	U vs	130	29	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
2-Butanone (MEK)	33	U vs *+	33	2.4	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Acetone	14	J vs *+	33	5.6	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Benzene	6.6	U vs	6.6	0.32	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Carbon tetrachloride	6.6	U vs	6.6	0.64	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Chlorobenzene	6.6	U vs	6.6	0.87	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Chloroform	6.6	U vs	6.6	0.41	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
cis-1,2-Dichloroethene	6.6	U vs	6.6	0.85	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Ethylbenzene	6.6	U vs	6.6	0.46	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Methyl tert-butyl ether	6.6	U vs	6.6	0.65	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Methylene Chloride	6.6	U vs	6.6	3.0	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
n-Butylbenzene	6.6	U vs	6.6	0.58	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
N-Propylbenzene	6.6	U vs	6.6	0.53	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
sec-Butylbenzene	6.6	U vs	6.6	0.58	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
tert-Butylbenzene	6.6	U vs	6.6	0.69	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Tetrachloroethene	6.6	U vs	6.6	0.89	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Toluene	6.6	U vs	6.6	0.50	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
trans-1,2-Dichloroethene	6.6	U vs	6.6	0.68	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Trichloroethene	6.6	U vs	6.6	1.5	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Vinyl chloride	6.6	U vs	6.6	0.81	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1
Xylenes, Total	13	U vs	13	1.1	ug/Kg	☼	03/26/24 17:19	04/02/24 17:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	03/26/24 17:19	04/02/24 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	03/26/24 17:19	04/02/24 17:44	1
4-Bromofluorobenzene (Surr)	102		72 - 126	03/26/24 17:19	04/02/24 17:44	1
Dibromofluoromethane (Surr)	99		60 - 140	03/26/24 17:19	04/02/24 17:44	1
Toluene-d8 (Surr)	113		71 - 125	03/26/24 17:19	04/02/24 17:44	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	13000	U	13000	7200	ug/Kg	☼	03/26/24 16:46	03/28/24 20:42	10
2-Methylphenol	22000	U	22000	2600	ug/Kg	☼	03/26/24 16:46	03/28/24 20:42	10
3-Methylphenol	43000	U	43000	3400	ug/Kg	☼	03/26/24 16:46	03/28/24 20:42	10
4-Methylphenol	43000	U	43000	2600	ug/Kg	☼	03/26/24 16:46	03/28/24 20:42	10
Acenaphthene	22000	U	22000	3300	ug/Kg	☼	03/26/24 16:46	03/28/24 20:42	10
Acenaphthylene	22000	U	22000	2900	ug/Kg	☼	03/26/24 16:46	03/28/24 20:42	10
Anthracene	22000	U	22000	5500	ug/Kg	☼	03/26/24 16:46	03/28/24 20:42	10
Benzo[a]anthracene	22000	U	22000	2200	ug/Kg	☼	03/26/24 16:46	03/28/24 20:42	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-5 1-3

Lab Sample ID: 480-218119-5

Date Collected: 03/25/24 10:00

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 74.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	22000	U	22000	3300	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Benzo[b]fluoranthene	22000	U	22000	3500	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Benzo[g,h,i]perylene	22000	U	22000	2400	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Benzo[k]fluoranthene	22000	U	22000	2900	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Chrysene	22000	U	22000	5000	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Dibenz(a,h)anthracene	22000	U	22000	3900	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Dibenzofuran	22000	U	22000	2600	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Fluoranthene	5500	J	22000	2400	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Fluorene	22000	U	22000	2600	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Hexachlorobenzene	22000	U	22000	3000	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Indeno[1,2,3-cd]pyrene	22000	U	22000	2800	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Naphthalene	22000	U	22000	2900	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Pentachlorophenol	43000	U	43000	22000	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Phenanthrene	3900	J	22000	3300	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Phenol	22000	U	22000	3400	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10
Pyrene	4100	J	22000	2600	ug/Kg	☆	03/26/24 16:46	03/28/24 20:42	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☆		N/A	03/26/24 16:46	03/28/24 20:42	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	257	S1+	54 - 120	03/26/24 16:46	03/28/24 20:42	10
2-Fluorobiphenyl (Surr)	85		60 - 120	03/26/24 16:46	03/28/24 20:42	10
2-Fluorophenol (Surr)	103		52 - 120	03/26/24 16:46	03/28/24 20:42	10
Nitrobenzene-d5 (Surr)	185	S1+	53 - 120	03/26/24 16:46	03/28/24 20:42	10
Phenol-d5 (Surr)	128	S1+	54 - 120	03/26/24 16:46	03/28/24 20:42	10
p-Terphenyl-d14 (Surr)	96		79 - 130	03/26/24 16:46	03/28/24 20:42	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		2.8	0.56	mg/Kg	☆	03/27/24 15:45	03/29/24 16:16	1
Barium	59.0		0.70	0.15	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Beryllium	0.42		0.28	0.039	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Cadmium	0.21	J B	0.28	0.042	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Chromium	14.7		0.70	0.28	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Copper	12.8		1.4	0.29	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Lead	38.7		1.4	0.33	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Manganese	218	B	0.28	0.045	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Nickel	12.4		7.0	0.32	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Selenium	5.6	U	5.6	0.56	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Silver	0.84	U	0.84	0.28	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1
Zinc	49.0		2.8	0.89	mg/Kg	☆	03/27/24 15:45	03/28/24 18:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.027	0.0061	mg/Kg	☆	04/06/24 12:56	04/06/24 16:45	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-6 1-3

Lab Sample ID: 480-218119-6

Date Collected: 03/25/24 10:30

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 81.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.1	U vs	6.1	0.45	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
1,1-Dichloroethane	6.1	U vs	6.1	0.75	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
1,1-Dichloroethene	6.1	U vs	6.1	0.75	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
1,2,4-Trimethylbenzene	6.1	U vs	6.1	1.2	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
1,2-Dichlorobenzene	6.1	U vs	6.1	0.48	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
1,2-Dichloroethane	6.1	U vs	6.1	0.31	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
1,3,5-Trimethylbenzene	6.1	U vs	6.1	0.40	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
1,3-Dichlorobenzene	6.1	U vs	6.1	0.32	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
1,4-Dichlorobenzene	6.1	U vs	6.1	0.86	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
1,4-Dioxane	120	U vs	120	27	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
2-Butanone (MEK)	31	U vs *+	31	2.2	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Acetone	31	U vs *+	31	5.2	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Benzene	6.1	U vs	6.1	0.30	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Carbon tetrachloride	6.1	U vs	6.1	0.59	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Chlorobenzene	6.1	U vs	6.1	0.81	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Chloroform	6.1	U vs	6.1	0.38	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
cis-1,2-Dichloroethene	6.1	U vs	6.1	0.79	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Ethylbenzene	6.1	U vs	6.1	0.42	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Methyl tert-butyl ether	6.1	U vs	6.1	0.60	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Methylene Chloride	6.1	U vs	6.1	2.8	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
n-Butylbenzene	6.1	U vs	6.1	0.53	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
N-Propylbenzene	6.1	U vs	6.1	0.49	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
sec-Butylbenzene	6.1	U vs	6.1	0.53	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
tert-Butylbenzene	6.1	U vs	6.1	0.64	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Tetrachloroethene	6.1	U vs	6.1	0.82	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Toluene	6.1	U vs	6.1	0.46	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
trans-1,2-Dichloroethene	6.1	U vs	6.1	0.63	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Trichloroethene	6.1	U vs	6.1	1.4	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Vinyl chloride	6.1	U vs	6.1	0.75	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1
Xylenes, Total	12	U vs	12	1.0	ug/Kg	✱	03/26/24 17:19	04/02/24 18:08	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	03/26/24 17:19	04/02/24 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		64 - 126	03/26/24 17:19	04/02/24 18:08	1
4-Bromofluorobenzene (Surr)	101		72 - 126	03/26/24 17:19	04/02/24 18:08	1
Dibromofluoromethane (Surr)	106		60 - 140	03/26/24 17:19	04/02/24 18:08	1
Toluene-d8 (Surr)	114		71 - 125	03/26/24 17:19	04/02/24 18:08	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	120	U	120	67	ug/Kg	✱	03/26/24 16:46	03/28/24 21:07	1
2-Methylphenol	210	U	210	24	ug/Kg	✱	03/26/24 16:46	03/28/24 21:07	1
3-Methylphenol	400	U	400	32	ug/Kg	✱	03/26/24 16:46	03/28/24 21:07	1
4-Methylphenol	400	U	400	24	ug/Kg	✱	03/26/24 16:46	03/28/24 21:07	1
Acenaphthene	210	U	210	30	ug/Kg	✱	03/26/24 16:46	03/28/24 21:07	1
Acenaphthylene	210	U	210	27	ug/Kg	✱	03/26/24 16:46	03/28/24 21:07	1
Anthracene	210	U	210	51	ug/Kg	✱	03/26/24 16:46	03/28/24 21:07	1
Benzo[a]anthracene	36	J	210	21	ug/Kg	✱	03/26/24 16:46	03/28/24 21:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-6 1-3

Lab Sample ID: 480-218119-6

Date Collected: 03/25/24 10:30

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 81.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	42	J	210	30	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Benzo[b]fluoranthene	60	J	210	33	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Benzo[g,h,i]perylene	31	J	210	22	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Benzo[k]fluoranthene	210	U	210	27	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Chrysene	55	J	210	46	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Dibenz(a,h)anthracene	210	U	210	37	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Dibenzofuran	210	U	210	24	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Fluoranthene	110	J	210	22	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Fluorene	210	U	210	24	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Hexachlorobenzene	210	U	210	28	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Indeno[1,2,3-cd]pyrene	30	J	210	26	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Naphthalene	210	U	210	27	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Pentachlorophenol	400	U	400	210	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Phenanthrene	54	J	210	30	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Phenol	210	U	210	32	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1
Pyrene	90	J	210	24	ug/Kg	☼	03/26/24 16:46	03/28/24 21:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	190	T J	ug/Kg	☼	2.95	N/A	03/26/24 16:46	03/28/24 21:07	1
Unknown	880	T J	ug/Kg	☼	2.97	N/A	03/26/24 16:46	03/28/24 21:07	1
Ethane, 1,1,2,2-tetrachloro-	180	T J N	ug/Kg	☼	4.22	79-34-5	03/26/24 16:46	03/28/24 21:07	1
Unknown	240	T J	ug/Kg	☼	9.23	N/A	03/26/24 16:46	03/28/24 21:07	1
Cyclic octaatomic sulfur	1400	T J N	ug/Kg	☼	11.83	10544-50-0	03/26/24 16:46	03/28/24 21:07	1
1-Docosene	790	T J N	ug/Kg	☼	12.94	1599-67-3	03/26/24 16:46	03/28/24 21:07	1
1-Heptadecene	950	T J N	ug/Kg	☼	13.48	6765-39-5	03/26/24 16:46	03/28/24 21:07	1
Perylene	480	T J N	ug/Kg	☼	14.18	198-55-0	03/26/24 16:46	03/28/24 21:07	1
Unknown	270	T J	ug/Kg	☼	15.64	N/A	03/26/24 16:46	03/28/24 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		54 - 120	03/26/24 16:46	03/28/24 21:07	1
2-Fluorobiphenyl (Surr)	84		60 - 120	03/26/24 16:46	03/28/24 21:07	1
2-Fluorophenol (Surr)	79		52 - 120	03/26/24 16:46	03/28/24 21:07	1
Nitrobenzene-d5 (Surr)	75		53 - 120	03/26/24 16:46	03/28/24 21:07	1
Phenol-d5 (Surr)	82		54 - 120	03/26/24 16:46	03/28/24 21:07	1
p-Terphenyl-d14 (Surr)	87		79 - 130	03/26/24 16:46	03/28/24 21:07	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		2.6	0.51	mg/Kg	☼	03/27/24 15:45	03/29/24 16:20	1
Barium	112		0.64	0.14	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Beryllium	0.77		0.26	0.036	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Cadmium	0.15	J B	0.26	0.038	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Chromium	28.3		0.64	0.26	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Copper	12.5		1.3	0.27	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Lead	49.9		1.3	0.31	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Manganese	208	B	0.26	0.041	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Nickel	16.4		6.4	0.29	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Selenium	5.1	U	5.1	0.51	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Silver	0.77	U	0.77	0.26	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1
Zinc	63.8		2.6	0.82	mg/Kg	☼	03/27/24 15:45	03/28/24 18:43	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-6 1-3

Lab Sample ID: 480-218119-6

Date Collected: 03/25/24 10:30

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 81.4

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.024	0.0056	mg/Kg	☆	04/06/24 12:56	04/06/24 16:50	1

Client Sample ID: BH-7 1-3

Lab Sample ID: 480-218119-7

Date Collected: 03/25/24 11:00

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 79.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.1	U vs	6.1	0.44	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
1,1-Dichloroethane	6.1	U vs	6.1	0.74	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
1,1-Dichloroethene	6.1	U vs	6.1	0.75	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
1,2,4-Trimethylbenzene	6.1	U vs	6.1	1.2	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
1,2-Dichlorobenzene	6.1	U vs	6.1	0.48	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
1,2-Dichloroethane	6.1	U vs	6.1	0.31	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
1,3,5-Trimethylbenzene	6.1	U vs	6.1	0.39	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
1,3-Dichlorobenzene	6.1	U vs	6.1	0.31	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
1,4-Dichlorobenzene	6.1	U vs	6.1	0.85	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
1,4-Dioxane	120	U vs	120	27	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
2-Butanone (MEK)	30	U vs *+	30	2.2	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Acetone	6.0	J vs *+	30	5.1	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Benzene	6.1	U vs	6.1	0.30	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Carbon tetrachloride	6.1	U vs	6.1	0.59	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Chlorobenzene	6.1	U vs	6.1	0.81	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Chloroform	6.1	U vs	6.1	0.38	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
cis-1,2-Dichloroethene	6.1	U vs	6.1	0.78	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Ethylbenzene	6.1	U vs	6.1	0.42	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Methyl tert-butyl ether	6.1	U vs	6.1	0.60	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Methylene Chloride	6.1	U vs	6.1	2.8	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
n-Butylbenzene	6.1	U vs	6.1	0.53	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
N-Propylbenzene	6.1	U vs	6.1	0.49	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
sec-Butylbenzene	6.1	U vs	6.1	0.53	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
tert-Butylbenzene	6.1	U vs	6.1	0.63	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Tetrachloroethene	6.1	U vs	6.1	0.82	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Toluene	6.1	U vs	6.1	0.46	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
trans-1,2-Dichloroethene	6.1	U vs	6.1	0.63	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Trichloroethene	6.1	U vs	6.1	1.3	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Vinyl chloride	6.1	U vs	6.1	0.74	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1
Xylenes, Total	12	U vs	12	1.0	ug/Kg	☆	03/26/24 17:19	04/02/24 18:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☆		N/A	03/26/24 17:19	04/02/24 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 126	03/26/24 17:19	04/02/24 18:32	1
4-Bromofluorobenzene (Surr)	99		72 - 126	03/26/24 17:19	04/02/24 18:32	1
Dibromofluoromethane (Surr)	101		60 - 140	03/26/24 17:19	04/02/24 18:32	1
Toluene-d8 (Surr)	113		71 - 125	03/26/24 17:19	04/02/24 18:32	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	630	U	630	340	ug/Kg	☆	03/26/24 16:46	03/28/24 21:32	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-7 1-3

Lab Sample ID: 480-218119-7

Date Collected: 03/25/24 11:00

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 79.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	1100	U	1100	130	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
3-Methylphenol	2100	U	2100	160	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
4-Methylphenol	2100	U	2100	130	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Acenaphthene	1100	U	1100	160	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Acenaphthylene	1100	U	1100	140	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Anthracene	1100	U	1100	260	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Benzo[a]anthracene	240	J	1100	110	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Benzo[a]pyrene	510	J	1100	160	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Benzo[b]fluoranthene	760	J	1100	170	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Benzo[g,h,i]perylene	630	J	1100	110	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Benzo[k]fluoranthene	300	J	1100	140	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Chrysene	460	J	1100	240	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Dibenz(a,h)anthracene	1100	U	1100	190	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Dibenzofuran	1100	U	1100	130	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Fluoranthene	770	J	1100	110	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Fluorene	1100	U	1100	130	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Hexachlorobenzene	1100	U	1100	140	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Indeno[1,2,3-cd]pyrene	490	J	1100	130	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Naphthalene	1100	U	1100	140	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Pentachlorophenol	2100	U	2100	1100	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Phenanthrene	300	J	1100	160	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Phenol	1100	U	1100	160	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5
Pyrene	580	J	1100	130	ug/Kg	✱	03/26/24 16:46	03/28/24 21:32	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	870	T J	ug/Kg	✱	2.99	N/A	03/26/24 16:46	03/28/24 21:32	5
Cyclic octaatomic sulfur	1800	T J N	ug/Kg	✱	11.81	10544-50-0	03/26/24 16:46	03/28/24 21:32	5
Unknown	910	T J	ug/Kg	✱	13.48	N/A	03/26/24 16:46	03/28/24 21:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		54 - 120	03/26/24 16:46	03/28/24 21:32	5
2-Fluorobiphenyl (Surr)	85		60 - 120	03/26/24 16:46	03/28/24 21:32	5
2-Fluorophenol (Surr)	84		52 - 120	03/26/24 16:46	03/28/24 21:32	5
Nitrobenzene-d5 (Surr)	83		53 - 120	03/26/24 16:46	03/28/24 21:32	5
Phenol-d5 (Surr)	85		54 - 120	03/26/24 16:46	03/28/24 21:32	5
p-Terphenyl-d14 (Surr)	85		79 - 130	03/26/24 16:46	03/28/24 21:32	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		2.6	0.53	mg/Kg	✱	03/27/24 15:45	03/29/24 16:23	1
Barium	116		0.66	0.14	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1
Beryllium	0.84		0.26	0.037	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1
Cadmium	0.20	J B	0.26	0.039	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1
Chromium	19.8		0.66	0.26	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1
Copper	11.0		1.3	0.28	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1
Lead	35.6		1.3	0.32	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1
Manganese	294	B	0.26	0.042	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1
Nickel	10.7		6.6	0.30	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1
Selenium	5.3	U	5.3	0.53	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1
Silver	0.79	U	0.79	0.26	mg/Kg	✱	03/27/24 15:45	03/28/24 18:46	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-7 1-3

Lab Sample ID: 480-218119-7

Date Collected: 03/25/24 11:00

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 79.4

Method: SW846 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	58.3		2.6	0.84	mg/Kg	☆	03/27/24 15:45	03/28/24 18:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.089		0.024	0.0056	mg/Kg	☆	04/06/24 12:56	04/06/24 16:51	1

Client Sample ID: BH-8 1-2

Lab Sample ID: 480-218119-8

Date Collected: 03/25/24 11:15

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 75.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.6	U vs	6.6	0.48	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
1,1-Dichloroethane	6.6	U vs	6.6	0.80	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
1,1-Dichloroethene	6.6	U vs	6.6	0.81	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
1,2,4-Trimethylbenzene	6.6	U vs	6.6	1.3	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
1,2-Dichlorobenzene	6.6	U vs	6.6	0.51	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
1,2-Dichloroethane	6.6	U vs	6.6	0.33	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
1,3,5-Trimethylbenzene	6.6	U vs	6.6	0.42	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
1,3-Dichlorobenzene	6.6	U vs	6.6	0.34	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
1,4-Dichlorobenzene	6.6	U vs	6.6	0.92	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
1,4-Dioxane	130	U vs	130	29	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
2-Butanone (MEK)	33	U vs *+	33	2.4	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Acetone	33	U vs *+	33	5.5	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Benzene	6.6	U vs	6.6	0.32	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Carbon tetrachloride	6.6	U vs	6.6	0.64	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Chlorobenzene	6.6	U vs	6.6	0.87	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Chloroform	6.6	U vs	6.6	0.41	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
cis-1,2-Dichloroethene	6.6	U vs	6.6	0.84	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Ethylbenzene	6.6	U vs	6.6	0.45	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Methyl tert-butyl ether	6.6	U vs	6.6	0.65	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Methylene Chloride	6.6	U vs	6.6	3.0	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
n-Butylbenzene	6.6	U vs	6.6	0.57	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
N-Propylbenzene	6.6	U vs	6.6	0.53	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
sec-Butylbenzene	6.6	U vs	6.6	0.57	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
tert-Butylbenzene	6.6	U vs	6.6	0.68	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Tetrachloroethene	6.6	U vs	6.6	0.88	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Toluene	6.6	U vs	6.6	0.50	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
trans-1,2-Dichloroethene	6.6	U vs	6.6	0.68	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Trichloroethene	6.6	U vs	6.6	1.4	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Vinyl chloride	6.6	U vs	6.6	0.80	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1
Xylenes, Total	13	U vs	13	1.1	ug/Kg	☆	03/26/24 17:19	04/02/24 18:55	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☆		N/A	03/26/24 17:19	04/02/24 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	03/26/24 17:19	04/02/24 18:55	1
4-Bromofluorobenzene (Surr)	101		72 - 126	03/26/24 17:19	04/02/24 18:55	1
Dibromofluoromethane (Surr)	101		60 - 140	03/26/24 17:19	04/02/24 18:55	1
Toluene-d8 (Surr)	113		71 - 125	03/26/24 17:19	04/02/24 18:55	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-8 1-2

Lab Sample ID: 480-218119-8

Date Collected: 03/25/24 11:15

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 75.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2600	U	2600	1400	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
2-Methylphenol	4500	U	4500	520	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
3-Methylphenol	8600	U	8600	680	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
4-Methylphenol	8600	U	8600	520	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Acenaphthene	7200		4500	660	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Acenaphthylene	6400		4500	580	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Anthracene	31000		4500	1100	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Benzo[a]anthracene	61000		4500	450	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Benzo[a]pyrene	55000		4500	660	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Benzo[b]fluoranthene	62000		4500	710	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Benzo[g,h,i]perylene	13000		4500	470	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Benzo[k]fluoranthene	24000		4500	580	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Chrysene	56000		4500	1000	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Dibenz(a,h)anthracene	4800		4500	790	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Dibenzofuran	6600		4500	520	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Fluoranthene	130000		4500	470	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Fluorene	15000		4500	520	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Hexachlorobenzene	4500	U	4500	600	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Indeno[1,2,3-cd]pyrene	15000		4500	550	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Naphthalene	1400	J	4500	580	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Pentachlorophenol	8600	U	8600	4500	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Phenanthrene	120000		4500	660	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Phenol	4500	U	4500	680	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20
Pyrene	110000		4500	520	ug/Kg	☼	03/26/24 16:46	03/28/24 21:57	20

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Dibenzothiophene	7300	T J N	ug/Kg	☼	10.51	132-65-0	03/26/24 16:46	03/28/24 21:57	20
Phenanthrene, 1-methyl-	22000	T J N	ug/Kg	☼	11.13	832-69-9	03/26/24 16:46	03/28/24 21:57	20
Anthracene, 2-methyl-	26000	T J N	ug/Kg	☼	11.15	613-12-7	03/26/24 16:46	03/28/24 21:57	20
Phenanthrene, 2-methyl-	11000	T J N	ug/Kg	☼	11.20	2531-84-2	03/26/24 16:46	03/28/24 21:57	20
Unknown	39000	T J	ug/Kg	☼	11.23	N/A	03/26/24 16:46	03/28/24 21:57	20
1H-Cyclopropa[l]phenanthrene, 1a,9b-dihydro-	17000	T J N	ug/Kg	☼	11.25	949-41-7	03/26/24 16:46	03/28/24 21:57	20
Naphthalene, 2-phenyl-	19000	T J N	ug/Kg	☼	11.42	612-94-2	03/26/24 16:46	03/28/24 21:57	20
Phenanthrene, 4,5-dimethyl-	7300	T J N	ug/Kg	☼	11.55	3674-69-9	03/26/24 16:46	03/28/24 21:57	20
Phenanthrene, 2,7-dimethyl-	6400	T J N	ug/Kg	☼	11.59	1576-69-8	03/26/24 16:46	03/28/24 21:57	20
Phenanthrene, 2,5-dimethyl-	16000	T J N	ug/Kg	☼	11.65	3674-66-6	03/26/24 16:46	03/28/24 21:57	20
Unknown	13000	T J	ug/Kg	☼	11.68	N/A	03/26/24 16:46	03/28/24 21:57	20
Phenanthrene, 3,6-dimethyl-	10000	T J N	ug/Kg	☼	11.73	1576-67-6	03/26/24 16:46	03/28/24 21:57	20
Cyclic octaatomic sulfur	11000	T J N	ug/Kg	☼	11.81	10544-50-0	03/26/24 16:46	03/28/24 21:57	20
Pyrene, 1-methyl-	7100	T J N	ug/Kg	☼	12.28	2381-21-7	03/26/24 16:46	03/28/24 21:57	20
Benzo[j]fluoranthene	10000	T J N	ug/Kg	☼	13.95	205-82-3	03/26/24 16:46	03/28/24 21:57	20
Dinaphtho[1,2-b:1',2'-d]furan	6500	T J N	ug/Kg	☼	14.03	207-93-2	03/26/24 16:46	03/28/24 21:57	20
Perylene	36000	T J N	ug/Kg	☼	14.09	198-55-0	03/26/24 16:46	03/28/24 21:57	20
Benzo[e]pyrene	19000	T J N	ug/Kg	☼	14.18	192-97-2	03/26/24 16:46	03/28/24 21:57	20
Unknown	6300	T J	ug/Kg	☼	14.80	N/A	03/26/24 16:46	03/28/24 21:57	20
Dibenzo[def,mno]chrysene	5900	T J N	ug/Kg	☼	15.32	191-26-4	03/26/24 16:46	03/28/24 21:57	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		54 - 120	03/26/24 16:46	03/28/24 21:57	20

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-8 1-2

Lab Sample ID: 480-218119-8

Date Collected: 03/25/24 11:15

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 75.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		60 - 120	03/26/24 16:46	03/28/24 21:57	20
2-Fluorophenol (Surr)	87		52 - 120	03/26/24 16:46	03/28/24 21:57	20
Nitrobenzene-d5 (Surr)	95		53 - 120	03/26/24 16:46	03/28/24 21:57	20
Phenol-d5 (Surr)	86		54 - 120	03/26/24 16:46	03/28/24 21:57	20
p-Terphenyl-d14 (Surr)	85		79 - 130	03/26/24 16:46	03/28/24 21:57	20

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.8		2.7	0.53	mg/Kg	☆	03/27/24 15:45	03/29/24 16:26	1
Barium	217		0.67	0.15	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Beryllium	0.89		0.27	0.037	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Cadmium	0.67	B	0.27	0.040	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Chromium	27.3		0.67	0.27	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Copper	54.7		1.3	0.28	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Lead	456		1.3	0.32	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Manganese	1240	B	0.27	0.043	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Nickel	25.1		6.7	0.31	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Selenium	0.55	J	5.3	0.53	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Silver	0.80	U	0.80	0.27	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1
Zinc	243		2.7	0.85	mg/Kg	☆	03/27/24 15:45	03/28/24 18:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.027	0.0062	mg/Kg	☆	04/06/24 12:56	04/06/24 16:55	1

Client Sample ID: BH-9 1-2

Lab Sample ID: 480-218119-9

Date Collected: 03/25/24 11:25

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 78.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.4	U vs	6.4	0.46	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
1,1-Dichloroethane	6.4	U vs	6.4	0.77	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
1,1-Dichloroethene	6.4	U vs	6.4	0.78	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
1,2,4-Trimethylbenzene	6.4	U vs	6.4	1.2	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
1,2-Dichlorobenzene	6.4	U vs	6.4	0.50	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
1,2-Dichloroethane	6.4	U vs	6.4	0.32	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
1,3,5-Trimethylbenzene	6.4	U vs	6.4	0.41	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
1,3-Dichlorobenzene	6.4	U vs	6.4	0.33	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
1,4-Dichlorobenzene	6.4	U vs	6.4	0.89	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
1,4-Dioxane	130	U vs	130	28	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
2-Butanone (MEK)	32	U vs **	32	2.3	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
Acetone	32	U vs **	32	5.3	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
Benzene	6.4	U vs	6.4	0.31	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
Carbon tetrachloride	6.4	U vs	6.4	0.61	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
Chlorobenzene	6.4	U vs	6.4	0.84	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
Chloroform	6.4	U vs	6.4	0.39	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
cis-1,2-Dichloroethene	6.4	U vs	6.4	0.81	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
Ethylbenzene	6.4	U vs	6.4	0.44	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1
Methyl tert-butyl ether	6.4	U vs	6.4	0.62	ug/Kg	☆	03/26/24 17:19	04/02/24 19:19	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-9 1-2

Lab Sample ID: 480-218119-9

Date Collected: 03/25/24 11:25

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 78.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	6.4	U vs	6.4	2.9	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
n-Butylbenzene	6.4	U vs	6.4	0.55	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
N-Propylbenzene	6.4	U vs	6.4	0.51	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
sec-Butylbenzene	6.4	U vs	6.4	0.55	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
tert-Butylbenzene	6.4	U vs	6.4	0.66	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
Tetrachloroethene	6.4	U vs	6.4	0.85	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
Toluene	6.4	U vs	6.4	0.48	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
trans-1,2-Dichloroethene	6.4	U vs	6.4	0.66	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
Trichloroethene	6.4	U vs	6.4	1.4	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
Vinyl chloride	6.4	U vs	6.4	0.77	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1
Xylenes, Total	13	U vs	13	1.1	ug/Kg	☼	03/26/24 17:19	04/02/24 19:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	03/26/24 17:19	04/02/24 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	03/26/24 17:19	04/02/24 19:19	1
4-Bromofluorobenzene (Surr)	99		72 - 126	03/26/24 17:19	04/02/24 19:19	1
Dibromofluoromethane (Surr)	103		60 - 140	03/26/24 17:19	04/02/24 19:19	1
Toluene-d8 (Surr)	112		71 - 125	03/26/24 17:19	04/02/24 19:19	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	630	U	630	350	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
2-Methylphenol	1100	U	1100	130	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
3-Methylphenol	2100	U	2100	160	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
4-Methylphenol	2100	U	2100	130	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Acenaphthene	1100	U	1100	160	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Acenaphthylene	1100	U	1100	140	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Anthracene	1100	U	1100	270	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Benzo[a]anthracene	550	J	1100	110	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Benzo[a]pyrene	620	J	1100	160	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Benzo[b]fluoranthene	850	J	1100	170	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Benzo[g,h,i]perylene	250	J	1100	110	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Benzo[k]fluoranthene	400	J	1100	140	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Chrysene	770	J	1100	240	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Dibenz(a,h)anthracene	1100	U	1100	190	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Dibenzofuran	1100	U	1100	130	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Fluoranthene	1900		1100	110	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Fluorene	1100	U	1100	130	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Hexachlorobenzene	1100	U	1100	150	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Indeno[1,2,3-cd]pyrene	280	J	1100	130	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Naphthalene	1100	U	1100	140	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Pentachlorophenol	2100	U	2100	1100	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Phenanthrene	1200		1100	160	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Phenol	1100	U	1100	160	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5
Pyrene	1300		1100	130	ug/Kg	☼	03/26/24 16:46	03/28/24 22:22	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	03/26/24 16:46	03/28/24 22:22	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-9 1-2

Lab Sample ID: 480-218119-9

Date Collected: 03/25/24 11:25

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 78.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		54 - 120	03/26/24 16:46	03/28/24 22:22	5
2-Fluorobiphenyl (Surr)	81		60 - 120	03/26/24 16:46	03/28/24 22:22	5
2-Fluorophenol (Surr)	81		52 - 120	03/26/24 16:46	03/28/24 22:22	5
Nitrobenzene-d5 (Surr)	80		53 - 120	03/26/24 16:46	03/28/24 22:22	5
Phenol-d5 (Surr)	83		54 - 120	03/26/24 16:46	03/28/24 22:22	5
p-Terphenyl-d14 (Surr)	82		79 - 130	03/26/24 16:46	03/28/24 22:22	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		2.6	0.52	mg/Kg	✱	03/27/24 15:45	03/29/24 16:30	1
Barium	123		0.65	0.14	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Beryllium	0.68		0.26	0.036	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Cadmium	0.18	J B	0.26	0.039	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Chromium	26.6		0.65	0.26	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Copper	28.6		1.3	0.27	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Lead	219		1.3	0.31	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Manganese	212	B	0.26	0.041	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Nickel	17.1		6.5	0.30	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Selenium	5.2	U	5.2	0.52	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Silver	0.77	U	0.77	0.26	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1
Zinc	97.5		2.6	0.83	mg/Kg	✱	03/27/24 15:45	03/28/24 18:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087		0.026	0.0059	mg/Kg	✱	04/06/24 12:56	04/06/24 16:57	1

Client Sample ID: BH-10 0-1

Lab Sample ID: 480-218119-10

Date Collected: 03/25/24 11:30

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 78.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.3	U vs	6.3	0.46	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
1,1-Dichloroethane	6.3	U vs	6.3	0.77	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
1,1-Dichloroethene	6.3	U vs	6.3	0.78	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
1,2,4-Trimethylbenzene	6.3	U vs	6.3	1.2	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
1,2-Dichlorobenzene	6.3	U vs	6.3	0.50	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
1,2-Dichloroethane	6.3	U vs	6.3	0.32	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
1,3,5-Trimethylbenzene	6.3	U vs	6.3	0.41	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
1,3-Dichlorobenzene	6.3	U vs	6.3	0.33	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
1,4-Dichlorobenzene	6.3	U vs	6.3	0.89	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
1,4-Dioxane	130	U vs	130	28	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
2-Butanone (MEK)	32	U vs **	32	2.3	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
Acetone	32	U vs **	32	5.3	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
Benzene	6.3	U vs	6.3	0.31	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
Carbon tetrachloride	6.3	U vs	6.3	0.61	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
Chlorobenzene	6.3	U vs	6.3	0.84	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
Chloroform	6.3	U vs	6.3	0.39	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
cis-1,2-Dichloroethene	6.3	U vs	6.3	0.81	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
Ethylbenzene	6.3	U vs	6.3	0.44	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1
Methyl tert-butyl ether	6.3	U vs	6.3	0.62	ug/Kg	✱	03/26/24 17:19	04/02/24 19:43	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-10 0-1

Lab Sample ID: 480-218119-10

Date Collected: 03/25/24 11:30

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 78.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	6.3	U vs	6.3	2.9	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
n-Butylbenzene	6.3	U vs	6.3	0.55	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
N-Propylbenzene	6.3	U vs	6.3	0.51	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
sec-Butylbenzene	6.3	U vs	6.3	0.55	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
tert-Butylbenzene	6.3	U vs	6.3	0.66	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
Tetrachloroethene	6.3	U vs	6.3	0.85	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
Toluene	6.3	U vs	6.3	0.48	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
trans-1,2-Dichloroethene	6.3	U vs	6.3	0.65	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
Trichloroethene	6.3	U vs	6.3	1.4	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
Vinyl chloride	6.3	U vs	6.3	0.77	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1
Xylenes, Total	13	U vs	13	1.1	ug/Kg	☼	03/26/24 17:19	04/02/24 19:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	03/26/24 17:19	04/02/24 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 126	03/26/24 17:19	04/02/24 19:43	1
4-Bromofluorobenzene (Surr)	101		72 - 126	03/26/24 17:19	04/02/24 19:43	1
Dibromofluoromethane (Surr)	100		60 - 140	03/26/24 17:19	04/02/24 19:43	1
Toluene-d8 (Surr)	114		71 - 125	03/26/24 17:19	04/02/24 19:43	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	120	U	120	68	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
2-Methylphenol	210	U	210	25	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
3-Methylphenol	410	U	410	32	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
4-Methylphenol	410	U	410	25	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Acenaphthene	210	U	210	31	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Acenaphthylene	210	U	210	27	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Anthracene	210	U	210	52	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Benzo[a]anthracene	130	J	210	21	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Benzo[a]pyrene	120	J	210	31	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Benzo[b]fluoranthene	140	J	210	34	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Benzo[g,h,i]perylene	81	J	210	22	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Benzo[k]fluoranthene	83	J	210	27	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Chrysene	130	J	210	47	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Dibenz(a,h)anthracene	210	U	210	37	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Dibenzofuran	210	U	210	25	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Fluoranthene	260		210	22	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Fluorene	210	U	210	25	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Hexachlorobenzene	210	U	210	29	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Indeno[1,2,3-cd]pyrene	60	J	210	26	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Naphthalene	210	U	210	27	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Pentachlorophenol	410	U	410	210	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Phenanthrene	160	J	210	31	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Phenol	210	U	210	32	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1
Pyrene	220		210	25	ug/Kg	☼	03/26/24 16:46	03/28/24 19:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5000	T J	ug/Kg	☼	1.98	N/A	03/26/24 16:46	03/28/24 19:38	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-10 0-1

Lab Sample ID: 480-218119-10

Date Collected: 03/25/24 11:30

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 78.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1200	T J	ug/Kg	☼	3.45	N/A	03/26/24 16:46	03/28/24 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		54 - 120				03/26/24 16:46	03/28/24 19:38	1
2-Fluorobiphenyl (Surr)	85		60 - 120				03/26/24 16:46	03/28/24 19:38	1
2-Fluorophenol (Surr)	75		52 - 120				03/26/24 16:46	03/28/24 19:38	1
Nitrobenzene-d5 (Surr)	74		53 - 120				03/26/24 16:46	03/28/24 19:38	1
Phenol-d5 (Surr)	81		54 - 120				03/26/24 16:46	03/28/24 19:38	1
p-Terphenyl-d14 (Surr)	89		79 - 130				03/26/24 16:46	03/28/24 19:38	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		2.5	0.51	mg/Kg	☼	03/27/24 15:45	03/29/24 16:33	1
Barium	109		0.64	0.14	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Beryllium	0.80		0.25	0.036	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Cadmium	0.33	B	0.25	0.038	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Chromium	23.0		0.64	0.25	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Copper	112		1.3	0.27	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Lead	121		1.3	0.30	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Manganese	377	B	0.25	0.041	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Nickel	28.8		6.4	0.29	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Selenium	5.1	U	5.1	0.51	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Silver	0.76	U	0.76	0.25	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1
Zinc	145		2.5	0.81	mg/Kg	☼	03/27/24 15:45	03/28/24 18:57	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.025	0.0057	mg/Kg	☼	03/29/24 09:18	03/29/24 14:50	1

Client Sample ID: BH-11 4-5

Lab Sample ID: 480-218119-11

Date Collected: 03/25/24 12:45

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 81.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.0	U vs	6.0	0.44	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
1,1-Dichloroethane	6.0	U vs	6.0	0.74	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
1,1-Dichloroethene	6.0	U vs	6.0	0.74	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
1,2,4-Trimethylbenzene	6.0	U vs	6.0	1.2	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
1,2-Dichlorobenzene	6.0	U vs	6.0	0.47	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
1,2-Dichloroethane	6.0	U vs	6.0	0.30	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
1,3,5-Trimethylbenzene	6.0	U vs	6.0	0.39	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
1,3-Dichlorobenzene	6.0	U vs	6.0	0.31	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
1,4-Dichlorobenzene	6.0	U vs	6.0	0.85	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
1,4-Dioxane	120	U vs	120	26	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
2-Butanone (MEK)	30	U vs *	30	2.2	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
Acetone	30	U vs *	30	5.1	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
Benzene	6.0	U vs	6.0	0.30	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
Carbon tetrachloride	6.0	U vs	6.0	0.58	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1
Chlorobenzene	6.0	U vs	6.0	0.80	ug/Kg	☼	03/26/24 17:19	04/02/24 20:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-11 4-5

Lab Sample ID: 480-218119-11

Date Collected: 03/25/24 12:45

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 81.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	6.0	U vs	6.0	0.37	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
cis-1,2-Dichloroethene	6.0	U vs	6.0	0.77	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
Ethylbenzene	6.0	U vs	6.0	0.42	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
Methyl tert-butyl ether	6.0	U vs	6.0	0.59	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
Methylene Chloride	6.0	U vs	6.0	2.8	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
n-Butylbenzene	6.0	U vs	6.0	0.53	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
N-Propylbenzene	6.0	U vs	6.0	0.48	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
sec-Butylbenzene	6.0	U vs	6.0	0.53	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
tert-Butylbenzene	6.0	U vs	6.0	0.63	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
Tetrachloroethene	6.0	U vs	6.0	0.81	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
Toluene	6.0	U vs	6.0	0.46	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
trans-1,2-Dichloroethene	6.0	U vs	6.0	0.62	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
Trichloroethene	6.0	U vs	6.0	1.3	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
Vinyl chloride	6.0	U vs	6.0	0.74	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1
Xylenes, Total	12	U vs	12	1.0	ug/Kg	✱	03/26/24 17:19	04/02/24 20:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	03/26/24 17:19	04/02/24 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		64 - 126	03/26/24 17:19	04/02/24 20:07	1
4-Bromofluorobenzene (Surr)	100		72 - 126	03/26/24 17:19	04/02/24 20:07	1
Dibromofluoromethane (Surr)	104		60 - 140	03/26/24 17:19	04/02/24 20:07	1
Toluene-d8 (Surr)	114		71 - 125	03/26/24 17:19	04/02/24 20:07	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	120	U	120	67	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
2-Methylphenol	210	U	210	24	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
3-Methylphenol	400	U	400	31	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
4-Methylphenol	400	U	400	24	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Acenaphthene	210	U	210	30	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Acenaphthylene	210	U	210	27	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Anthracene	210	U	210	51	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Benzo[a]anthracene	45	J	210	21	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Benzo[a]pyrene	43	J	210	30	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Benzo[b]fluoranthene	56	J	210	33	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Benzo[g,h,i]perylene	29	J	210	22	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Benzo[k]fluoranthene	210	U	210	27	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Chrysene	210	U	210	46	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Dibenz(a,h)anthracene	210	U	210	36	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Dibenzofuran	210	U	210	24	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Fluoranthene	85	J	210	22	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Fluorene	210	U	210	24	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Hexachlorobenzene	210	U	210	28	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Indeno[1,2,3-cd]pyrene	210	U	210	25	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Naphthalene	210	U	210	27	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Pentachlorophenol	400	U	400	210	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Phenanthrene	47	J	210	30	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1
Phenol	210	U	210	31	ug/Kg	✱	03/26/24 16:46	03/28/24 20:02	1

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-11 4-5

Lab Sample ID: 480-218119-11

Date Collected: 03/25/24 12:45

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 81.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	77	J	210	24	ug/Kg	☆	03/26/24 16:46	03/28/24 20:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2400	T J	ug/Kg	☆	1.91	N/A	03/26/24 16:46	03/28/24 20:02	1
Unknown	3200	T J	ug/Kg	☆	1.98	N/A	03/26/24 16:46	03/28/24 20:02	1
Unknown	1300	T J	ug/Kg	☆	3.45	N/A	03/26/24 16:46	03/28/24 20:02	1
1-Tricosene	160	T J N	ug/Kg	☆	13.21	18835-32-0	03/26/24 16:46	03/28/24 20:02	1
1-Docosene	210	T J N	ug/Kg	☆	13.75	1599-67-3	03/26/24 16:46	03/28/24 20:02	1
Unknown	160	T J	ug/Kg	☆	16.87	N/A	03/26/24 16:46	03/28/24 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		54 - 120	03/26/24 16:46	03/28/24 20:02	1
2-Fluorobiphenyl (Surr)	94		60 - 120	03/26/24 16:46	03/28/24 20:02	1
2-Fluorophenol (Surr)	84		52 - 120	03/26/24 16:46	03/28/24 20:02	1
Nitrobenzene-d5 (Surr)	83		53 - 120	03/26/24 16:46	03/28/24 20:02	1
Phenol-d5 (Surr)	87		54 - 120	03/26/24 16:46	03/28/24 20:02	1
p-Terphenyl-d14 (Surr)	103		79 - 130	03/26/24 16:46	03/28/24 20:02	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		2.5	0.50	mg/Kg	☆	03/27/24 15:45	03/29/24 16:37	1
Barium	104		0.62	0.14	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Beryllium	0.68		0.25	0.035	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Cadmium	0.13	J B	0.25	0.037	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Chromium	22.6		0.62	0.25	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Copper	17.0		1.2	0.26	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Lead	332		1.2	0.30	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Manganese	292	B	0.25	0.040	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Nickel	16.0		6.2	0.28	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Selenium	5.0	U	5.0	0.50	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Silver	0.74	U	0.74	0.25	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1
Zinc	58.0		2.5	0.79	mg/Kg	☆	03/27/24 15:45	03/28/24 19:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.023	0.0054	mg/Kg	☆	03/29/24 09:18	03/29/24 14:52	1

Client Sample ID: BH-12 1-3

Lab Sample ID: 480-218119-12

Date Collected: 03/25/24 12:15

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 89.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.4	U vs	5.4	0.39	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
1,1-Dichloroethane	5.4	U vs	5.4	0.66	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
1,1-Dichloroethene	5.4	U vs	5.4	0.66	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
1,2,4-Trimethylbenzene	5.4	U vs	5.4	1.0	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
1,2-Dichlorobenzene	5.4	U vs	5.4	0.42	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
1,2-Dichloroethane	5.4	U vs	5.4	0.27	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
1,3,5-Trimethylbenzene	5.4	U vs	5.4	0.35	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
1,3-Dichlorobenzene	5.4	U vs	5.4	0.28	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-12 1-3

Lab Sample ID: 480-218119-12

Date Collected: 03/25/24 12:15

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 89.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.4	U vs	5.4	0.76	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
1,4-Dioxane	110	U vs	110	24	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
2-Butanone (MEK)	27	U vs *+	27	2.0	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Acetone	27	U vs *+	27	4.6	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Benzene	5.4	U vs	5.4	0.27	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Carbon tetrachloride	5.4	U vs	5.4	0.53	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Chlorobenzene	5.4	U vs	5.4	0.72	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Chloroform	5.4	U vs	5.4	0.34	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
cis-1,2-Dichloroethene	5.4	U vs	5.4	0.69	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Ethylbenzene	5.4	U vs	5.4	0.37	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Methyl tert-butyl ether	5.4	U vs	5.4	0.53	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Methylene Chloride	5.4	U vs	5.4	2.5	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
n-Butylbenzene	5.4	U vs	5.4	0.47	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
N-Propylbenzene	5.4	U vs	5.4	0.43	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
sec-Butylbenzene	5.4	U vs	5.4	0.47	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
tert-Butylbenzene	5.4	U vs	5.4	0.56	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Tetrachloroethene	5.4	U vs	5.4	0.73	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Toluene	5.4	U vs	5.4	0.41	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
trans-1,2-Dichloroethene	5.4	U vs	5.4	0.56	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Trichloroethene	5.4	U vs	5.4	1.2	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Vinyl chloride	5.4	U vs	5.4	0.66	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1
Xylenes, Total	11	U vs	11	0.91	ug/Kg	☆	03/26/24 17:19	04/02/24 20:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☆		N/A	03/26/24 17:19	04/02/24 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 126	03/26/24 17:19	04/02/24 20:30	1
4-Bromofluorobenzene (Surr)	99		72 - 126	03/26/24 17:19	04/02/24 20:30	1
Dibromofluoromethane (Surr)	103		60 - 140	03/26/24 17:19	04/02/24 20:30	1
Toluene-d8 (Surr)	112		71 - 125	03/26/24 17:19	04/02/24 20:30	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	11000	U	11000	6100	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
2-Methylphenol	19000	U	19000	2200	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
3-Methylphenol	37000	U	37000	2900	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
4-Methylphenol	37000	U	37000	2200	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Acenaphthene	19000	U	19000	2800	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Acenaphthylene	19000	U	19000	2400	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Anthracene	19000	U	19000	4700	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Benzo[a]anthracene	19000	U	19000	1900	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Benzo[a]pyrene	19000	U	19000	2800	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Benzo[b]fluoranthene	19000	U	19000	3000	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Benzo[g,h,i]perylene	19000	U	19000	2000	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Benzo[k]fluoranthene	19000	U	19000	2400	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Chrysene	19000	U	19000	4200	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Dibenz(a,h)anthracene	19000	U	19000	3300	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Dibenzofuran	19000	U	19000	2200	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Fluoranthene	3300	J	19000	2000	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-12 1-3

Lab Sample ID: 480-218119-12

Date Collected: 03/25/24 12:15

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 89.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	19000	U	19000	2200	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Hexachlorobenzene	19000	U	19000	2600	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Indeno[1,2,3-cd]pyrene	19000	U	19000	2300	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Naphthalene	19000	U	19000	2400	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Pentachlorophenol	37000	U	37000	19000	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Phenanthrene	19000	U	19000	2800	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Phenol	19000	U	19000	2900	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10
Pyrene	2700	J	19000	2200	ug/Kg	☆	03/26/24 16:46	03/28/24 20:26	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	48000	T J	ug/Kg	☆	1.84	N/A	03/26/24 16:46	03/28/24 20:26	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	54 - 120	03/26/24 16:46	03/28/24 20:26	10
2-Fluorobiphenyl (Surr)	92		60 - 120	03/26/24 16:46	03/28/24 20:26	10
2-Fluorophenol (Surr)	69		52 - 120	03/26/24 16:46	03/28/24 20:26	10
Nitrobenzene-d5 (Surr)	81		53 - 120	03/26/24 16:46	03/28/24 20:26	10
Phenol-d5 (Surr)	92		54 - 120	03/26/24 16:46	03/28/24 20:26	10
p-Terphenyl-d14 (Surr)	99		79 - 130	03/26/24 16:46	03/28/24 20:26	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		2.4	0.48	mg/Kg	☆	03/27/24 15:45	03/29/24 16:40	1
Barium	82.4		0.59	0.13	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Beryllium	1.7		0.24	0.033	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Cadmium	0.21	J B	0.24	0.036	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Chromium	11.9		0.59	0.24	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Copper	8.7		1.2	0.25	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Lead	41.6		1.2	0.29	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Manganese	441	B	0.24	0.038	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Nickel	10.1		5.9	0.27	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Selenium	4.8	U	4.8	0.48	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Silver	0.71	U	0.71	0.24	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1
Zinc	41.1		2.4	0.76	mg/Kg	☆	03/27/24 15:45	03/28/24 19:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.56		0.022	0.0051	mg/Kg	☆	03/29/24 09:18	03/29/24 14:53	1

Client Sample ID: BH-13 1-2

Lab Sample ID: 480-218119-13

Date Collected: 03/25/24 12:25

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 75.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.6	U vs	6.6	0.48	ug/Kg	☆	03/26/24 17:19	04/02/24 20:54	1
1,1-Dichloroethane	6.6	U vs	6.6	0.80	ug/Kg	☆	03/26/24 17:19	04/02/24 20:54	1
1,1-Dichloroethene	6.6	U vs	6.6	0.80	ug/Kg	☆	03/26/24 17:19	04/02/24 20:54	1
1,2,4-Trimethylbenzene	6.6	U vs	6.6	1.3	ug/Kg	☆	03/26/24 17:19	04/02/24 20:54	1
1,2-Dichlorobenzene	6.6	U vs	6.6	0.51	ug/Kg	☆	03/26/24 17:19	04/02/24 20:54	1
1,2-Dichloroethane	6.6	U vs	6.6	0.33	ug/Kg	☆	03/26/24 17:19	04/02/24 20:54	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-13 1-2

Lab Sample ID: 480-218119-13

Date Collected: 03/25/24 12:25

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 75.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	6.6	U vs	6.6	0.42	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
1,3-Dichlorobenzene	6.6	U vs	6.6	0.34	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
1,4-Dichlorobenzene	6.6	U vs	6.6	0.92	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
1,4-Dioxane	130	U vs	130	29	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
2-Butanone (MEK)	33	U vs *+	33	2.4	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Acetone	33	U vs *+	33	5.5	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Benzene	6.6	U vs	6.6	0.32	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Carbon tetrachloride	6.6	U vs	6.6	0.63	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Chlorobenzene	6.6	U vs	6.6	0.87	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Chloroform	6.6	U vs	6.6	0.41	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
cis-1,2-Dichloroethene	6.6	U vs	6.6	0.84	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Ethylbenzene	6.6	U vs	6.6	0.45	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Methyl tert-butyl ether	6.6	U vs	6.6	0.64	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Methylene Chloride	6.6	U vs	6.6	3.0	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
n-Butylbenzene	6.6	U vs	6.6	0.57	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
N-Propylbenzene	6.6	U vs	6.6	0.52	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
sec-Butylbenzene	6.6	U vs	6.6	0.57	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
tert-Butylbenzene	6.6	U vs	6.6	0.68	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Tetrachloroethene	6.6	U vs	6.6	0.88	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Toluene	6.6	U vs	6.6	0.50	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
trans-1,2-Dichloroethene	6.6	U vs	6.6	0.68	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Trichloroethene	6.6	U vs	6.6	1.4	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Vinyl chloride	6.6	U vs	6.6	0.80	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1
Xylenes, Total	13	U vs	13	1.1	ug/Kg	✱	03/26/24 17:19	04/02/24 20:54	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	03/26/24 17:19	04/02/24 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 126	03/26/24 17:19	04/02/24 20:54	1
4-Bromofluorobenzene (Surr)	101		72 - 126	03/26/24 17:19	04/02/24 20:54	1
Dibromofluoromethane (Surr)	100		60 - 140	03/26/24 17:19	04/02/24 20:54	1
Toluene-d8 (Surr)	113		71 - 125	03/26/24 17:19	04/02/24 20:54	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	650	U	650	360	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
2-Methylphenol	1100	U	1100	130	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
3-Methylphenol	2200	U	2200	170	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
4-Methylphenol	2200	U	2200	130	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Acenaphthene	1100	U	1100	160	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Acenaphthylene	1100	U	1100	140	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Anthracene	1100	U	1100	270	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Benzo[a]anthracene	270	J	1100	110	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Benzo[a]pyrene	250	J	1100	160	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Benzo[b]fluoranthene	320	J	1100	180	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Benzo[g,h,i]perylene	170	J	1100	120	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Benzo[k]fluoranthene	190	J	1100	140	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Chrysene	320	J	1100	250	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5
Dibenz(a,h)anthracene	1100	U	1100	200	ug/Kg	✱	03/26/24 16:46	03/28/24 20:50	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-13 1-2

Lab Sample ID: 480-218119-13

Date Collected: 03/25/24 12:25

Matrix: Solid

Date Received: 03/26/24 16:15

Percent Solids: 75.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	1100	U	1100	130	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5
Fluoranthene	860	J	1100	120	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5
Fluorene	1100	U	1100	130	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5
Hexachlorobenzene	1100	U	1100	150	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5
Indeno[1,2,3-cd]pyrene	1100	U	1100	140	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5
Naphthalene	1100	U	1100	140	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5
Pentachlorophenol	2200	U	2200	1100	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5
Phenanthrene	560	J	1100	160	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5
Phenol	1100	U	1100	170	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5
Pyrene	630	J	1100	130	ug/Kg	☆	03/26/24 16:46	03/28/24 20:50	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1400	T J	ug/Kg	☆	3.47	N/A	03/26/24 16:46	03/28/24 20:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		54 - 120	03/26/24 16:46	03/28/24 20:50	5
2-Fluorobiphenyl (Surr)	83		60 - 120	03/26/24 16:46	03/28/24 20:50	5
2-Fluorophenol (Surr)	79		52 - 120	03/26/24 16:46	03/28/24 20:50	5
Nitrobenzene-d5 (Surr)	74		53 - 120	03/26/24 16:46	03/28/24 20:50	5
Phenol-d5 (Surr)	84		54 - 120	03/26/24 16:46	03/28/24 20:50	5
p-Terphenyl-d14 (Surr)	86		79 - 130	03/26/24 16:46	03/28/24 20:50	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.5		2.7	0.54	mg/Kg	☆	03/27/24 15:45	03/29/24 16:54	1
Barium	89.0		0.67	0.15	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Beryllium	0.93		0.27	0.038	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Cadmium	0.27	U	0.27	0.040	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Chromium	31.5		0.67	0.27	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Copper	8.7		1.3	0.28	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Lead	130		1.3	0.32	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Manganese	230	B	0.27	0.043	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Nickel	18.9		6.7	0.31	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Selenium	5.4	U	5.4	0.54	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Silver	0.81	U	0.81	0.27	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1
Zinc	67.3		2.7	0.86	mg/Kg	☆	03/27/24 15:45	03/28/24 19:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.026	0.0059	mg/Kg	☆	03/29/24 09:18	03/29/24 14:54	1

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-218119-1	BH-1 0-1	110	101	103	115
480-218119-2	BH-2 2-4	111	102	103	114
480-218119-3	BH-3 1-3	109	102	99	115
480-218119-4	BH-4 1-3	110	102	106	117
480-218119-5	BH-5 1-3	110	102	99	113
480-218119-6	BH-6 1-3	114	101	106	114
480-218119-7	BH-7 1-3	112	99	101	113
480-218119-8	BH-8 1-2	111	101	101	113
480-218119-9	BH-9 1-2	111	99	103	112
480-218119-10	BH-10 0-1	109	101	100	114
480-218119-11	BH-11 4-5	113	100	104	114
480-218119-12	BH-12 1-3	112	99	103	112
480-218119-13	BH-13 1-2	112	101	100	113
LCS 480-705127/1-A	Lab Control Sample	111	100	107	103
MB 480-705127/2-A	Method Blank	108	97	104	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (79-130)
480-218119-1	BH-1 0-1	93	85	81	78	82	100
480-218119-2	BH-2 2-4	95	89	85	81	89	99
480-218119-3	BH-3 1-3	77	81	76	72	77	86
480-218119-4	BH-4 1-3	95	86	83	83	90	95
480-218119-5	BH-5 1-3	257 S1+	85	103	185 S1+	128 S1+	96
480-218119-6	BH-6 1-3	95	84	79	75	82	87
480-218119-7	BH-7 1-3	85	85	84	83	85	85
480-218119-8	BH-8 1-2	105	84	87	95	86	85
480-218119-9	BH-9 1-2	85	81	81	80	83	82
480-218119-10	BH-10 0-1	73	85	75	74	81	89
480-218119-11	BH-11 4-5	87	94	84	83	87	103
480-218119-12	BH-12 1-3	0 S1-	92	69	81	92	99
480-218119-13	BH-13 1-2	72	83	79	74	84	86
LCS 480-705124/2-A	Lab Control Sample	105	85	77	76	77	98
MB 480-705124/1-A	Method Blank	87	83	74	73	77	102

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-705127/2-A

Matrix: Solid

Analysis Batch: 705129

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 705127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.96	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.32	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
1,4-Dioxane	100	U	100	22	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Acetone	25	U	25	4.2	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Benzene	5.0	U	5.0	0.25	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Chloroform	5.0	U	5.0	0.31	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
n-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
N-Propylbenzene	5.0	U	5.0	0.40	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
sec-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
tert-Butylbenzene	5.0	U	5.0	0.52	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Toluene	5.0	U	5.0	0.38	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		03/26/24 17:19	03/26/24 20:44	1
Xylenes, Total	10	U	10	0.84	ug/Kg		03/26/24 17:19	03/26/24 20:44	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A	03/26/24 17:19	03/26/24 20:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	03/26/24 17:19	03/26/24 20:44	1
4-Bromofluorobenzene (Surr)	97		72 - 126	03/26/24 17:19	03/26/24 20:44	1
Dibromofluoromethane (Surr)	104		60 - 140	03/26/24 17:19	03/26/24 20:44	1
Toluene-d8 (Surr)	101		71 - 125	03/26/24 17:19	03/26/24 20:44	1

Lab Sample ID: LCS 480-705127/1-A

Matrix: Solid

Analysis Batch: 705129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 705127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	54.5		ug/Kg		109	77 - 121
1,1-Dichloroethane	50.0	52.4		ug/Kg		105	73 - 126
1,1-Dichloroethene	50.0	46.8		ug/Kg		94	59 - 125

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-705127/1-A

Matrix: Solid

Analysis Batch: 705129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 705127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	50.0	52.8		ug/Kg		106	74 - 120
1,2-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 120
1,2-Dichloroethane	50.0	57.1		ug/Kg		114	77 - 122
1,3,5-Trimethylbenzene	50.0	52.6		ug/Kg		105	74 - 120
1,3-Dichlorobenzene	50.0	52.5		ug/Kg		105	74 - 120
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	73 - 120
1,4-Dioxane	1000	1110		ug/Kg		111	64 - 124
2-Butanone (MEK)	250	354	*+	ug/Kg		142	70 - 134
Acetone	250	361	*+	ug/Kg		144	61 - 137
Benzene	50.0	50.4		ug/Kg		101	79 - 127
Carbon tetrachloride	50.0	56.2		ug/Kg		112	75 - 135
Chlorobenzene	50.0	50.9		ug/Kg		102	76 - 124
Chloroform	50.0	51.9		ug/Kg		104	80 - 120
cis-1,2-Dichloroethene	50.0	51.7		ug/Kg		103	81 - 120
Ethylbenzene	50.0	51.4		ug/Kg		103	80 - 120
Methyl tert-butyl ether	50.0	51.7		ug/Kg		103	63 - 125
Methylene Chloride	50.0	52.1		ug/Kg		104	61 - 127
n-Butylbenzene	50.0	53.4		ug/Kg		107	70 - 120
N-Propylbenzene	50.0	53.3		ug/Kg		107	70 - 130
sec-Butylbenzene	50.0	53.7		ug/Kg		107	74 - 120
tert-Butylbenzene	50.0	53.4		ug/Kg		107	73 - 120
Tetrachloroethene	50.0	52.5		ug/Kg		105	74 - 122
Toluene	50.0	51.1		ug/Kg		102	74 - 128
trans-1,2-Dichloroethene	50.0	51.2		ug/Kg		102	78 - 126
Trichloroethene	50.0	51.0		ug/Kg		102	77 - 129
Vinyl chloride	50.0	46.7		ug/Kg		93	61 - 133
Xylenes, Total	100	102		ug/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		64 - 126
4-Bromofluorobenzene (Surr)	100		72 - 126
Dibromofluoromethane (Surr)	107		60 - 140
Toluene-d8 (Surr)	103		71 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-705124/1-A

Matrix: Solid

Analysis Batch: 705325

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 705124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	99	U	99	54	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
2-Methylphenol	170	U	170	20	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
3-Methylphenol	330	U	330	26	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
4-Methylphenol	330	U	330	20	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Acenaphthene	170	U	170	25	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Acenaphthylene	170	U	170	22	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Anthracene	170	U	170	42	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		03/26/24 16:46	03/28/24 11:50	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-705124/1-A

Matrix: Solid

Analysis Batch: 705325

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 705124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	170	U	170	25	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Chrysene	170	U	170	38	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Dibenz[a,h]anthracene	170	U	170	30	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Dibenzofuran	170	U	170	20	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Fluoranthene	170	U	170	18	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Fluorene	170	U	170	20	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Hexachlorobenzene	170	U	170	23	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Naphthalene	170	U	170	22	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Pentachlorophenol	330	U	330	170	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Phenanthrene	170	U	170	25	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Phenol	170	U	170	26	ug/Kg		03/26/24 16:46	03/28/24 11:50	1
Pyrene	170	U	170	20	ug/Kg		03/26/24 16:46	03/28/24 11:50	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	169	T J	ug/Kg		2.95	N/A	03/26/24 16:46	03/28/24 11:50	1
Unknown	684	T J	ug/Kg		2.97	N/A	03/26/24 16:46	03/28/24 11:50	1
Ethane, 1,1,2,2-tetrachloro-	205	T J N	ug/Kg		4.22	79-34-5	03/26/24 16:46	03/28/24 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		54 - 120	03/26/24 16:46	03/28/24 11:50	1
2-Fluorobiphenyl (Surr)	83		60 - 120	03/26/24 16:46	03/28/24 11:50	1
2-Fluorophenol (Surr)	74		52 - 120	03/26/24 16:46	03/28/24 11:50	1
Nitrobenzene-d5 (Surr)	73		53 - 120	03/26/24 16:46	03/28/24 11:50	1
Phenol-d5 (Surr)	77		54 - 120	03/26/24 16:46	03/28/24 11:50	1
p-Terphenyl-d14 (Surr)	102		79 - 130	03/26/24 16:46	03/28/24 11:50	1

Lab Sample ID: LCS 480-705124/2-A

Matrix: Solid

Analysis Batch: 705325

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 705124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1660	591		ug/Kg		36	23 - 120
2-Methylphenol	1660	1140		ug/Kg		69	54 - 120
3-Methylphenol	1660	1150		ug/Kg		69	55 - 120
4-Methylphenol	1660	1150		ug/Kg		70	55 - 120
Acenaphthene	1660	1330		ug/Kg		80	62 - 120
Acenaphthylene	1660	1210		ug/Kg		73	58 - 121
Anthracene	1660	1320		ug/Kg		80	62 - 120
Benzo[a]anthracene	1660	1380		ug/Kg		83	65 - 120
Benzo[a]pyrene	1660	1480		ug/Kg		89	64 - 120
Benzo[b]fluoranthene	1660	1410		ug/Kg		85	64 - 120
Benzo[g,h,i]perylene	1660	1470		ug/Kg		89	45 - 145
Benzo[k]fluoranthene	1660	1460		ug/Kg		88	65 - 120
Chrysene	1660	1420		ug/Kg		86	64 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-705124/2-A

Matrix: Solid

Analysis Batch: 705325

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 705124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenz(a,h)anthracene	1660	1530		ug/Kg		92	54 - 132
Dibenzofuran	1660	1300		ug/Kg		78	63 - 120
Fluoranthene	1660	1320		ug/Kg		80	62 - 120
Fluorene	1660	1290		ug/Kg		78	63 - 120
Hexachlorobenzene	1660	1480		ug/Kg		90	60 - 120
Indeno[1,2,3-cd]pyrene	1660	1660		ug/Kg		100	56 - 134
Naphthalene	1660	1150		ug/Kg		69	55 - 120
Pentachlorophenol	3310	1790		ug/Kg		54	10 - 120
Phenanthrene	1660	1360		ug/Kg		82	60 - 120
Phenol	1660	1120		ug/Kg		68	53 - 120
Pyrene	1660	1490		ug/Kg		90	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	105		54 - 120
2-Fluorobiphenyl (Surr)	85		60 - 120
2-Fluorophenol (Surr)	77		52 - 120
Nitrobenzene-d5 (Surr)	76		53 - 120
Phenol-d5 (Surr)	77		54 - 120
p-Terphenyl-d14 (Surr)	98		79 - 130

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-705214/1-A

Matrix: Solid

Analysis Batch: 705532

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 705214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	U	0.48	0.11	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Beryllium	0.19	U	0.19	0.027	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Cadmium	0.0318	J	0.19	0.029	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Chromium	0.48	U	0.48	0.19	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Copper	0.96	U	0.96	0.20	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Lead	0.96	U	0.96	0.23	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Manganese	0.0405	J	0.19	0.031	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Nickel	4.8	U	4.8	0.22	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Selenium	3.9	U	3.9	0.39	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Silver	0.58	U	0.58	0.19	mg/Kg		03/27/24 15:45	03/28/24 17:42	1
Zinc	1.9	U	1.9	0.62	mg/Kg		03/27/24 15:45	03/28/24 17:42	1

Lab Sample ID: MB 480-705214/1-A

Matrix: Solid

Analysis Batch: 705832

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 705214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	U	1.9	0.39	mg/Kg		03/27/24 15:45	03/29/24 15:31	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-705214/2-A
Matrix: Solid
Analysis Batch: 705532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 705214

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Barium	388	310.9		mg/Kg		80.1	68.3 - 113.9
Beryllium	165	137.9		mg/Kg		83.6	69.1 - 115.8
Cadmium	118	94.25		mg/Kg		79.9	67.0 - 111.9
Chromium	255	217.7		mg/Kg		85.4	63.5 - 118.4
Copper	135	110.9		mg/Kg		82.1	69.0 - 114.8
Lead	155	139.0		mg/Kg		89.6	67.7 - 119.4
Manganese	446	365.1		mg/Kg		81.9	70.4 - 114.3
Nickel	120	104.3		mg/Kg		86.9	63.2 - 117.5
Selenium	107	84.86		mg/Kg		79.3	58.3 - 121.5
Silver	51.0	41.75		mg/Kg		81.9	64.7 - 120.8
Zinc	406	333.9		mg/Kg		82.2	63.8 - 118.2

Lab Sample ID: LCSSRM 480-705214/2-A
Matrix: Solid
Analysis Batch: 705832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 705214

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	218	158.8		mg/Kg		72.9	57.8 - 110.1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-705449/1-A
Matrix: Solid
Analysis Batch: 705604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 705449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0046	mg/Kg		03/29/24 09:18	03/29/24 14:32	1

Lab Sample ID: LCSSRM 480-705449/2-A ^10
Matrix: Solid
Analysis Batch: 705604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 705449

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	17.1	12.96		mg/Kg		75.8	36.0 - 109.9

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 480-706539/1-A
Matrix: Solid
Analysis Batch: 706643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 706539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0047	mg/Kg		04/05/24 17:14	04/06/24 15:59	1

Lab Sample ID: LCSSRM 480-706539/2-A
Matrix: Solid
Analysis Batch: 706643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 706539

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	17.1	9.60		mg/Kg		56.2	36.0 - 109.9

Lab Sample ID: MB 480-706541/1-A
Matrix: Solid
Analysis Batch: 706643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 706541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0046	mg/Kg		04/06/24 12:56	04/06/24 16:40	1

Lab Sample ID: LCSSRM 480-706541/2-A
Matrix: Solid
Analysis Batch: 706643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 706541

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	17.1	12.02		mg/Kg		70.3	36.0 - 109.9

Lab Sample ID: 480-218119-5 MS
Matrix: Solid
Analysis Batch: 706643

Client Sample ID: BH-5 1-3
Prep Type: Total/NA
Prep Batch: 706541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.059		0.446	0.522		mg/Kg	✱	104	80 - 120

Lab Sample ID: 480-218119-5 MSD
Matrix: Solid
Analysis Batch: 706643

Client Sample ID: BH-5 1-3
Prep Type: Total/NA
Prep Batch: 706541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Mercury	0.059		0.440	0.490		mg/Kg	✱	98	80 - 120	6 20

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

GC/MS VOA

Prep Batch: 705127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	5035A_L	
480-218119-2	BH-2 2-4	Total/NA	Solid	5035A_L	
480-218119-3	BH-3 1-3	Total/NA	Solid	5035A_L	
480-218119-4	BH-4 1-3	Total/NA	Solid	5035A_L	
480-218119-5	BH-5 1-3	Total/NA	Solid	5035A_L	
480-218119-6	BH-6 1-3	Total/NA	Solid	5035A_L	
480-218119-7	BH-7 1-3	Total/NA	Solid	5035A_L	
480-218119-8	BH-8 1-2	Total/NA	Solid	5035A_L	
480-218119-9	BH-9 1-2	Total/NA	Solid	5035A_L	
480-218119-10	BH-10 0-1	Total/NA	Solid	5035A_L	
480-218119-11	BH-11 4-5	Total/NA	Solid	5035A_L	
480-218119-12	BH-12 1-3	Total/NA	Solid	5035A_L	
480-218119-13	BH-13 1-2	Total/NA	Solid	5035A_L	
MB 480-705127/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-705127/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 705129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-705127/2-A	Method Blank	Total/NA	Solid	8260C	705127
LCS 480-705127/1-A	Lab Control Sample	Total/NA	Solid	8260C	705127

Analysis Batch: 705853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	8260C	705127
480-218119-2	BH-2 2-4	Total/NA	Solid	8260C	705127
480-218119-3	BH-3 1-3	Total/NA	Solid	8260C	705127
480-218119-4	BH-4 1-3	Total/NA	Solid	8260C	705127
480-218119-5	BH-5 1-3	Total/NA	Solid	8260C	705127
480-218119-6	BH-6 1-3	Total/NA	Solid	8260C	705127
480-218119-7	BH-7 1-3	Total/NA	Solid	8260C	705127
480-218119-8	BH-8 1-2	Total/NA	Solid	8260C	705127
480-218119-9	BH-9 1-2	Total/NA	Solid	8260C	705127
480-218119-10	BH-10 0-1	Total/NA	Solid	8260C	705127
480-218119-11	BH-11 4-5	Total/NA	Solid	8260C	705127
480-218119-12	BH-12 1-3	Total/NA	Solid	8260C	705127
480-218119-13	BH-13 1-2	Total/NA	Solid	8260C	705127

GC/MS Semi VOA

Prep Batch: 705124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	3550C	
480-218119-2	BH-2 2-4	Total/NA	Solid	3550C	
480-218119-3	BH-3 1-3	Total/NA	Solid	3550C	
480-218119-4	BH-4 1-3	Total/NA	Solid	3550C	
480-218119-5	BH-5 1-3	Total/NA	Solid	3550C	
480-218119-6	BH-6 1-3	Total/NA	Solid	3550C	
480-218119-7	BH-7 1-3	Total/NA	Solid	3550C	
480-218119-8	BH-8 1-2	Total/NA	Solid	3550C	
480-218119-9	BH-9 1-2	Total/NA	Solid	3550C	
480-218119-10	BH-10 0-1	Total/NA	Solid	3550C	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

GC/MS Semi VOA (Continued)

Prep Batch: 705124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-11	BH-11 4-5	Total/NA	Solid	3550C	
480-218119-12	BH-12 1-3	Total/NA	Solid	3550C	
480-218119-13	BH-13 1-2	Total/NA	Solid	3550C	
MB 480-705124/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-705124/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 705325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	8270D	705124
480-218119-2	BH-2 2-4	Total/NA	Solid	8270D	705124
480-218119-3	BH-3 1-3	Total/NA	Solid	8270D	705124
480-218119-4	BH-4 1-3	Total/NA	Solid	8270D	705124
480-218119-5	BH-5 1-3	Total/NA	Solid	8270D	705124
480-218119-6	BH-6 1-3	Total/NA	Solid	8270D	705124
480-218119-7	BH-7 1-3	Total/NA	Solid	8270D	705124
480-218119-8	BH-8 1-2	Total/NA	Solid	8270D	705124
480-218119-9	BH-9 1-2	Total/NA	Solid	8270D	705124
MB 480-705124/1-A	Method Blank	Total/NA	Solid	8270D	705124
LCS 480-705124/2-A	Lab Control Sample	Total/NA	Solid	8270D	705124

Analysis Batch: 705335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-10	BH-10 0-1	Total/NA	Solid	8270D	705124
480-218119-11	BH-11 4-5	Total/NA	Solid	8270D	705124
480-218119-12	BH-12 1-3	Total/NA	Solid	8270D	705124
480-218119-13	BH-13 1-2	Total/NA	Solid	8270D	705124

Metals

Prep Batch: 705214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	3050B	
480-218119-2	BH-2 2-4	Total/NA	Solid	3050B	
480-218119-3	BH-3 1-3	Total/NA	Solid	3050B	
480-218119-4	BH-4 1-3	Total/NA	Solid	3050B	
480-218119-5	BH-5 1-3	Total/NA	Solid	3050B	
480-218119-6	BH-6 1-3	Total/NA	Solid	3050B	
480-218119-7	BH-7 1-3	Total/NA	Solid	3050B	
480-218119-8	BH-8 1-2	Total/NA	Solid	3050B	
480-218119-9	BH-9 1-2	Total/NA	Solid	3050B	
480-218119-10	BH-10 0-1	Total/NA	Solid	3050B	
480-218119-11	BH-11 4-5	Total/NA	Solid	3050B	
480-218119-12	BH-12 1-3	Total/NA	Solid	3050B	
480-218119-13	BH-13 1-2	Total/NA	Solid	3050B	
MB 480-705214/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-705214/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 705449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-10	BH-10 0-1	Total/NA	Solid	7471B	
480-218119-11	BH-11 4-5	Total/NA	Solid	7471B	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Metals (Continued)

Prep Batch: 705449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-12	BH-12 1-3	Total/NA	Solid	7471B	
480-218119-13	BH-13 1-2	Total/NA	Solid	7471B	
MB 480-705449/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-705449/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 705532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	6010C	705214
480-218119-2	BH-2 2-4	Total/NA	Solid	6010C	705214
480-218119-3	BH-3 1-3	Total/NA	Solid	6010C	705214
480-218119-4	BH-4 1-3	Total/NA	Solid	6010C	705214
480-218119-5	BH-5 1-3	Total/NA	Solid	6010C	705214
480-218119-6	BH-6 1-3	Total/NA	Solid	6010C	705214
480-218119-7	BH-7 1-3	Total/NA	Solid	6010C	705214
480-218119-8	BH-8 1-2	Total/NA	Solid	6010C	705214
480-218119-9	BH-9 1-2	Total/NA	Solid	6010C	705214
480-218119-10	BH-10 0-1	Total/NA	Solid	6010C	705214
480-218119-11	BH-11 4-5	Total/NA	Solid	6010C	705214
480-218119-12	BH-12 1-3	Total/NA	Solid	6010C	705214
480-218119-13	BH-13 1-2	Total/NA	Solid	6010C	705214
MB 480-705214/1-A	Method Blank	Total/NA	Solid	6010C	705214
LCSSRM 480-705214/2-A	Lab Control Sample	Total/NA	Solid	6010C	705214

Analysis Batch: 705604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-10	BH-10 0-1	Total/NA	Solid	7471B	705449
480-218119-11	BH-11 4-5	Total/NA	Solid	7471B	705449
480-218119-12	BH-12 1-3	Total/NA	Solid	7471B	705449
480-218119-13	BH-13 1-2	Total/NA	Solid	7471B	705449
MB 480-705449/1-A	Method Blank	Total/NA	Solid	7471B	705449
LCSSRM 480-705449/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	705449

Analysis Batch: 705832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	6010C	705214
480-218119-2	BH-2 2-4	Total/NA	Solid	6010C	705214
480-218119-3	BH-3 1-3	Total/NA	Solid	6010C	705214
480-218119-4	BH-4 1-3	Total/NA	Solid	6010C	705214
480-218119-5	BH-5 1-3	Total/NA	Solid	6010C	705214
480-218119-6	BH-6 1-3	Total/NA	Solid	6010C	705214
480-218119-7	BH-7 1-3	Total/NA	Solid	6010C	705214
480-218119-8	BH-8 1-2	Total/NA	Solid	6010C	705214
480-218119-9	BH-9 1-2	Total/NA	Solid	6010C	705214
480-218119-10	BH-10 0-1	Total/NA	Solid	6010C	705214
480-218119-11	BH-11 4-5	Total/NA	Solid	6010C	705214
480-218119-12	BH-12 1-3	Total/NA	Solid	6010C	705214
480-218119-13	BH-13 1-2	Total/NA	Solid	6010C	705214
MB 480-705214/1-A	Method Blank	Total/NA	Solid	6010C	705214
LCSSRM 480-705214/2-A	Lab Control Sample	Total/NA	Solid	6010C	705214

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Metals

Prep Batch: 706539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	7471B	
480-218119-2	BH-2 2-4	Total/NA	Solid	7471B	
MB 480-706539/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-706539/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 706541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-3	BH-3 1-3	Total/NA	Solid	7471B	
480-218119-4	BH-4 1-3	Total/NA	Solid	7471B	
480-218119-5	BH-5 1-3	Total/NA	Solid	7471B	
480-218119-6	BH-6 1-3	Total/NA	Solid	7471B	
480-218119-7	BH-7 1-3	Total/NA	Solid	7471B	
480-218119-8	BH-8 1-2	Total/NA	Solid	7471B	
480-218119-9	BH-9 1-2	Total/NA	Solid	7471B	
MB 480-706541/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-706541/2-A	Lab Control Sample	Total/NA	Solid	7471B	
480-218119-5 MS	BH-5 1-3	Total/NA	Solid	7471B	
480-218119-5 MSD	BH-5 1-3	Total/NA	Solid	7471B	

Analysis Batch: 706643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	7471B	706539
480-218119-2	BH-2 2-4	Total/NA	Solid	7471B	706539
480-218119-3	BH-3 1-3	Total/NA	Solid	7471B	706541
480-218119-4	BH-4 1-3	Total/NA	Solid	7471B	706541
480-218119-5	BH-5 1-3	Total/NA	Solid	7471B	706541
480-218119-6	BH-6 1-3	Total/NA	Solid	7471B	706541
480-218119-7	BH-7 1-3	Total/NA	Solid	7471B	706541
480-218119-8	BH-8 1-2	Total/NA	Solid	7471B	706541
480-218119-9	BH-9 1-2	Total/NA	Solid	7471B	706541
MB 480-706539/1-A	Method Blank	Total/NA	Solid	7471B	706539
MB 480-706541/1-A	Method Blank	Total/NA	Solid	7471B	706541
LCSSRM 480-706539/2-A	Lab Control Sample	Total/NA	Solid	7471B	706539
LCSSRM 480-706541/2-A	Lab Control Sample	Total/NA	Solid	7471B	706541
480-218119-5 MS	BH-5 1-3	Total/NA	Solid	7471B	706541
480-218119-5 MSD	BH-5 1-3	Total/NA	Solid	7471B	706541

General Chemistry

Analysis Batch: 705096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-1	BH-1 0-1	Total/NA	Solid	Moisture	
480-218119-2	BH-2 2-4	Total/NA	Solid	Moisture	
480-218119-3	BH-3 1-3	Total/NA	Solid	Moisture	
480-218119-4	BH-4 1-3	Total/NA	Solid	Moisture	
480-218119-5	BH-5 1-3	Total/NA	Solid	Moisture	
480-218119-6	BH-6 1-3	Total/NA	Solid	Moisture	
480-218119-7	BH-7 1-3	Total/NA	Solid	Moisture	
480-218119-8	BH-8 1-2	Total/NA	Solid	Moisture	
480-218119-9	BH-9 1-2	Total/NA	Solid	Moisture	
480-218119-10	BH-10 0-1	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

General Chemistry (Continued)

Analysis Batch: 705096 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218119-11	BH-11 4-5	Total/NA	Solid	Moisture	
480-218119-12	BH-12 1-3	Total/NA	Solid	Moisture	
480-218119-13	BH-13 1-2	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-1 0-1

Date Collected: 03/25/24 08:45

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-1 0-1

Date Collected: 03/25/24 08:45

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-1

Matrix: Solid

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 16:09
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		1	705325	JMM	EET BUF	03/28/24 19:01
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:15
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 15:52
Total/NA	Prep	7471B			706539	ESB	EET BUF	04/05/24 17:14
Total/NA	Analysis	7471B		1	706643	BMB	EET BUF	04/06/24 16:35

Client Sample ID: BH-2 2-4

Date Collected: 03/25/24 09:00

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-2 2-4

Date Collected: 03/25/24 09:00

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-2

Matrix: Solid

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 16:33
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		1	705325	JMM	EET BUF	03/28/24 19:26
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:18
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 15:55
Total/NA	Prep	7471B			706539	ESB	EET BUF	04/05/24 17:14
Total/NA	Analysis	7471B		1	706643	BMB	EET BUF	04/06/24 16:36

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-3 1-3

Date Collected: 03/25/24 09:45

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-3 1-3

Date Collected: 03/25/24 09:45

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-3

Matrix: Solid

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 16:57
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		5	705325	JMM	EET BUF	03/28/24 19:51
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:22
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 15:59
Total/NA	Prep	7471B			706541	ESB	EET BUF	04/06/24 12:56
Total/NA	Analysis	7471B		1	706643	BMB	EET BUF	04/06/24 16:42

Client Sample ID: BH-4 1-3

Date Collected: 03/25/24 09:55

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-4 1-3

Date Collected: 03/25/24 09:55

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-4

Matrix: Solid

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 17:20
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		10	705325	JMM	EET BUF	03/28/24 20:16
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:25
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:12
Total/NA	Prep	7471B			706541	ESB	EET BUF	04/06/24 12:56
Total/NA	Analysis	7471B		1	706643	BMB	EET BUF	04/06/24 16:44

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-5 1-3

Date Collected: 03/25/24 10:00

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-5 1-3

Date Collected: 03/25/24 10:00

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-5

Matrix: Solid

Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 17:44
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		10	705325	JMM	EET BUF	03/28/24 20:42
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:39
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:16
Total/NA	Prep	7471B			706541	ESB	EET BUF	04/06/24 12:56
Total/NA	Analysis	7471B		1	706643	BMB	EET BUF	04/06/24 16:45

Client Sample ID: BH-6 1-3

Date Collected: 03/25/24 10:30

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-6 1-3

Date Collected: 03/25/24 10:30

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-6

Matrix: Solid

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 18:08
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		1	705325	JMM	EET BUF	03/28/24 21:07
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:43
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:20
Total/NA	Prep	7471B			706541	ESB	EET BUF	04/06/24 12:56
Total/NA	Analysis	7471B		1	706643	BMB	EET BUF	04/06/24 16:50

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-7 1-3

Date Collected: 03/25/24 11:00

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-7 1-3

Date Collected: 03/25/24 11:00

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-7

Matrix: Solid

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 18:32
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		5	705325	JMM	EET BUF	03/28/24 21:32
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:46
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:23
Total/NA	Prep	7471B			706541	ESB	EET BUF	04/06/24 12:56
Total/NA	Analysis	7471B		1	706643	BMB	EET BUF	04/06/24 16:51

Client Sample ID: BH-8 1-2

Date Collected: 03/25/24 11:15

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-8 1-2

Date Collected: 03/25/24 11:15

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-8

Matrix: Solid

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 18:55
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		20	705325	JMM	EET BUF	03/28/24 21:57
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:50
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:26
Total/NA	Prep	7471B			706541	ESB	EET BUF	04/06/24 12:56
Total/NA	Analysis	7471B		1	706643	BMB	EET BUF	04/06/24 16:55

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-9 1-2

Date Collected: 03/25/24 11:25

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-9 1-2

Date Collected: 03/25/24 11:25

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-9

Matrix: Solid

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 19:19
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		5	705325	JMM	EET BUF	03/28/24 22:22
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:54
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:30
Total/NA	Prep	7471B			706541	ESB	EET BUF	04/06/24 12:56
Total/NA	Analysis	7471B		1	706643	BMB	EET BUF	04/06/24 16:57

Client Sample ID: BH-10 0-1

Date Collected: 03/25/24 11:30

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-10 0-1

Date Collected: 03/25/24 11:30

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-10

Matrix: Solid

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 19:43
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		1	705335	JMM	EET BUF	03/28/24 19:38
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 18:57
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:33
Total/NA	Prep	7471B			705449	ESB	EET BUF	03/29/24 09:18
Total/NA	Analysis	7471B		1	705604	ESB	EET BUF	03/29/24 14:50

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-11 4-5

Date Collected: 03/25/24 12:45

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-11 4-5

Date Collected: 03/25/24 12:45

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-11

Matrix: Solid

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 20:07
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		1	705335	JMM	EET BUF	03/28/24 20:02
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 19:01
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:37
Total/NA	Prep	7471B			705449	ESB	EET BUF	03/29/24 09:18
Total/NA	Analysis	7471B		1	705604	ESB	EET BUF	03/29/24 14:52

Client Sample ID: BH-12 1-3

Date Collected: 03/25/24 12:15

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-12 1-3

Date Collected: 03/25/24 12:15

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-12

Matrix: Solid

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 20:30
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		10	705335	JMM	EET BUF	03/28/24 20:26
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 19:04
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:40
Total/NA	Prep	7471B			705449	ESB	EET BUF	03/29/24 09:18
Total/NA	Analysis	7471B		1	705604	ESB	EET BUF	03/29/24 14:53

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Client Sample ID: BH-13 1-2

Date Collected: 03/25/24 12:25

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	705096	JMM	EET BUF	03/26/24 14:31

Client Sample ID: BH-13 1-2

Date Collected: 03/25/24 12:25

Date Received: 03/26/24 16:15

Lab Sample ID: 480-218119-13

Matrix: Solid

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			705127	CDC	EET BUF	03/26/24 17:19
Total/NA	Analysis	8260C		1	705853	CDC	EET BUF	04/02/24 20:54
Total/NA	Prep	3550C			705124	SJM	EET BUF	03/26/24 16:46
Total/NA	Analysis	8270D		5	705335	JMM	EET BUF	03/28/24 20:50
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705532	BMB	EET BUF	03/28/24 19:08
Total/NA	Prep	3050B			705214	EMO	EET BUF	03/27/24 15:45
Total/NA	Analysis	6010C		1	705832	NZG	EET BUF	03/29/24 16:54
Total/NA	Prep	7471B			705449	ESB	EET BUF	03/29/24 09:18
Total/NA	Analysis	7471B		1	705604	ESB	EET BUF	03/29/24 14:54

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
3050B	Preparation, Metals	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 680 Amherst Street - Voelkers

Job ID: 480-218119-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-218119-1	BH-1 0-1	Solid	03/25/24 08:45	03/26/24 16:15
480-218119-2	BH-2 2-4	Solid	03/25/24 09:00	03/26/24 16:15
480-218119-3	BH-3 1-3	Solid	03/25/24 09:45	03/26/24 16:15
480-218119-4	BH-4 1-3	Solid	03/25/24 09:55	03/26/24 16:15
480-218119-5	BH-5 1-3	Solid	03/25/24 10:00	03/26/24 16:15
480-218119-6	BH-6 1-3	Solid	03/25/24 10:30	03/26/24 16:15
480-218119-7	BH-7 1-3	Solid	03/25/24 11:00	03/26/24 16:15
480-218119-8	BH-8 1-2	Solid	03/25/24 11:15	03/26/24 16:15
480-218119-9	BH-9 1-2	Solid	03/25/24 11:25	03/26/24 16:15
480-218119-10	BH-10 0-1	Solid	03/25/24 11:30	03/26/24 16:15
480-218119-11	BH-11 4-5	Solid	03/25/24 12:45	03/26/24 16:15
480-218119-12	BH-12 1-3	Solid	03/25/24 12:15	03/26/24 16:15
480-218119-13	BH-13 1-2	Solid	03/25/24 12:25	03/26/24 16:15

Chain of Custody Record

Client Information		Lab PM: Beninati, John		Carrier Tracking No(s):		COC No: 480-194458-40514.1									
Client Contact: Paul Staub		E-Mail: John.Beninati@et.eurolins.com		State of Origin:		Page: Page 1 of 2									
Company: Brydges Engineering in Environment & Energy DPC		PWSID:		Job #:											
Address: 960 Busti Ave Suite B-150		Due Date Requested:		Analysis Requested											
City: Buffalo		TAT Requested (days): Standard													
State, Zip: NY, 14213		Compliance Project: ☐ Yes ☒ No													
Phone: 716-362-6533(Tel)		Purchase Order not required													
Email: pstaub@be3corp.com		WO #:													
Project Name: 680 Amherst Street / Voelkers		Project #: 48027513													
Site: Voelkers		SSOW#:													
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=biomass, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	8260C - Part 375 VOCs + TICs	8270D - Part 375 SVOCs + 1,4-dioxane, TICs	8260C - Part 375 VOCs + TICs	8260C - Part 375 VOCs + TICs	Total Number of Containers	Special Instructions/Note:	
BH-1 0-1'	3/25	8:45	G	Solid											
BH-2 2-4'	3/25	9:00	G	Solid											
BH-3 1-3'	3/25	9:45	G	Solid											
BH-4 1-3'	3/25	9:55	G	Solid											
BH-5 1-3'	3/25	10:00	G	Solid											
BH-6 1-3'	3/25	10:30	G	Solid											
BH-7 1-3'	3/25	11:00	G	Solid											
BH-8 1-2'	3/25	11:15	G	Solid											
BH-9 1-2'	3/25	11:25	G	Solid											
BH-10 0-1'	3/25	11:30	G	Solid											
BH-11 4-5'	3/25	12:45	G	Water											
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological													
Deliverable Requested: I, II, III, IV, Other (specify)															
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:					
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:		3.7 ICE							

Chain of Custody Record

Client Information Client Contact: Beninati, John Paul Staub Company: Brydges Engineering in Environment & Energy DPC Address: 960 Busti Ave Suite B-150 City: Buffalo State, Zip: NY, 14213 Phone: 716-362-6533(Tel) Email: pstaub@be3corp.com Project Name: 680 Amherst Street Site:			Lab PM: Beninati, John E-Mail: John.Beninati@eurofinsus.com State of Origin:			Carrier Tracking No(s): 480-194458-40514.2 Page: Page 2 of 2 Job #:		
Due Date Requested: TAT Requested (days): Compliance Project: ☐ Yes ☒ No PO #: Purchase Order not required WO #: Project #: 48027513 SSOW#:			Analysis Requested			Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=soil, BT=tissue, A=air) Preservation Code: Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)			8260C - Part 375 VOCs + TICs 6010C, 7471B, 8270D 8260C - Part 375 VOCs + TICs 8270D - Part 375 SVOCs + 1,4-dioxane, TICs 6010C, 7470A 8260C - Part 375 VOCs + TICs			Total Number of Containers		
BH-12 1-3' BH-13 1-2'			3/25 1215 3/25 1235			Water Water Water		
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months			Special Instructions/Note:		
Empty Kit Relinquished by: Jacob OH Relinquished by:			Date: 3/25 16:14 Date/Time:			Method of Shipment:		
Relinquished by:			Date/Time: 3/25 16:15 Date/Time:			Company:		
Relinquished by:			Date/Time:			Company:		
Relinquished by:			Date/Time:			Company:		
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:			Company:		

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-218119-1

Login Number: 218119

List Number: 1

Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BBE
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

April 9, 2024

Jacob Cox
BE3
960 Busti Avenue, Suite B-150
Buffalo, NY 14213

Project Location:
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 24D0152

Enclosed are results of analyses for samples as received by the laboratory on March 29, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

William A. Scott
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
Sample Preparation Information	33
QC Data	34
Air Toxics by EPA Compendium Methods	34
B370894	34
Flag/Qualifier Summary	39
Internal standard Area & RT Summary	40
Continuing Calibration Check	43
Certifications	45
Chain of Custody/Sample Receipt	47

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BE3
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
ATTN: Jacob Cox

REPORT DATE: 4/9/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24D0152

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION:

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-1	24D0152-01	Sub Slab		- EPA TO-15	
IA-1	24D0152-02	Indoor air		- EPA TO-15	
SS-2	24D0152-03	Sub Slab		- EPA TO-15	
IA-2	24D0152-04	Indoor air		- EPA TO-15	
SS-3	24D0152-05	Sub Slab		- EPA TO-15	
IA-3	24D0152-06	Indoor air		- EPA TO-15	
SS-4	24D0152-07	Sub Slab		- EPA TO-15	
IA-4	24D0152-08	Indoor air		- EPA TO-15	
SS-5	24D0152-09	Sub Slab		- EPA TO-15	
IA-5	24D0152-10	Indoor air		- EPA TO-15	
SV-1	24D0152-11	Sub Slab		- EPA TO-15	
SV-2	24D0152-12	Sub Slab		- EPA TO-15	
SV-3	24D0152-13	Sub Slab		- EPA TO-15	
OA-1	24D0152-14	Ambient Air		- EPA TO-15	
UNUSED	24D0152-15			-	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

R-04

Duplicate relative percent difference (RPD) is outside of control limits. RPD is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Tetrachloroethylene
B370894-DUP1

Z-01

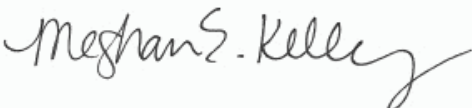
Sample had a final vacuum of zero.

Analyte & Samples(s) Qualified:

24D0152-01[SS-1], 24D0152-02[IA-1], 24D0152-04[IA-2], 24D0152-05[SS-3], 24D0152-06[IA-3], 24D0152-07[SS-4], 24D0152-08[IA-4], 24D0152-09[SS-5], 24D0152-09RE1[SS-5], 24D0152-10[IA-5], 24D0152-11[SV-1], 24D0152-12[SV-2], 24D0152-13[SV-3], 24D0152-14[OA-1]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and 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.



Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: SS-1
Sample ID: 24D0152-01
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:10

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 13689
 Canister Size: 1 liter
 Flow Controller ID: 009893
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 1.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: Z-01

Sample Flags: Z-01

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	9.2	4.0		22	9.5	2	4/3/24 18:39	CMR	
Benzene	0.56	0.10		1.8	0.32	2	4/3/24 18:39	CMR	
Benzyl chloride	ND	0.10		ND	0.52	2	4/3/24 18:39	CMR	
Bromodichloromethane	ND	0.10		ND	0.67	2	4/3/24 18:39	CMR	
Bromoform	ND	0.10		ND	1.0	2	4/3/24 18:39	CMR	
Bromomethane	ND	0.10		ND	0.39	2	4/3/24 18:39	CMR	
1,3-Butadiene	ND	0.10		ND	0.22	2	4/3/24 18:39	CMR	
2-Butanone (MEK)	ND	4.0		ND	12	2	4/3/24 18:39	CMR	
Carbon Disulfide	6.5	1.0		20	3.1	2	4/3/24 18:39	CMR	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	4/3/24 18:39	CMR	
Chlorobenzene	ND	0.10		ND	0.46	2	4/3/24 18:39	CMR	
Chloroethane	ND	0.10		ND	0.26	2	4/3/24 18:39	CMR	
Chloroform	0.34	0.10		1.7	0.49	2	4/3/24 18:39	CMR	
Chloromethane	0.22	0.20		0.46	0.41	2	4/3/24 18:39	CMR	
Cyclohexane	1.4	0.10		4.7	0.34	2	4/3/24 18:39	CMR	
Dibromochloromethane	ND	0.10		ND	0.85	2	4/3/24 18:39	CMR	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	4/3/24 18:39	CMR	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 18:39	CMR	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 18:39	CMR	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 18:39	CMR	
Dichlorodifluoromethane (Freon 12)	11	0.10		54	0.49	2	4/3/24 18:39	CMR	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 18:39	CMR	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 18:39	CMR	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 18:39	CMR	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 18:39	CMR	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 18:39	CMR	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	4/3/24 18:39	CMR	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 18:39	CMR	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 18:39	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	4/3/24 18:39	CMR	
1,4-Dioxane	ND	1.0		ND	3.6	2	4/3/24 18:39	CMR	
Ethanol	7.9	4.0		15	7.5	2	4/3/24 18:39	CMR	
Ethyl Acetate	ND	1.0		ND	3.6	2	4/3/24 18:39	CMR	
Ethylbenzene	0.11	0.10		0.48	0.43	2	4/3/24 18:39	CMR	
4-Ethyltoluene	ND	0.10		ND	0.49	2	4/3/24 18:39	CMR	
Heptane	1.1	0.10		4.3	0.41	2	4/3/24 18:39	CMR	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	4/3/24 18:39	CMR	

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ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: SS-1
Sample ID: 24D0152-01
Sample Matrix: Sub Slab
Sampled: 3/27/2024 14:10

Sample Description/Location:
Sub Description/Location:
Canister ID: 13689
Canister Size: 1 liter
Flow Controller ID: 009893
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 1.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: Z-01									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	4/3/24 18:39		CMR
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	4/3/24 18:39		CMR
Isopropanol	ND	4.0		ND	9.8	2	4/3/24 18:39		CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	4/3/24 18:39		CMR
Methylene Chloride	ND	1.0		ND	3.5	2	4/3/24 18:39		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	4/3/24 18:39		CMR
Naphthalene	ND	0.10		ND	0.52	2	4/3/24 18:39		CMR
Propene	ND	4.0		ND	6.9	2	4/3/24 18:39		CMR
Styrene	ND	0.10		ND	0.43	2	4/3/24 18:39		CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/3/24 18:39		CMR
Tetrachloroethylene	ND	0.10		ND	0.68	2	4/3/24 18:39		CMR
Tetrahydrofuran	ND	1.0		ND	2.9	2	4/3/24 18:39		CMR
Toluene	0.67	0.10		2.5	0.38	2	4/3/24 18:39		CMR
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	4/3/24 18:39		CMR
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 18:39		CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 18:39		CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/3/24 18:39		CMR
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	4/3/24 18:39		CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	4/3/24 18:39		CMR
1,2,4-Trimethylbenzene	0.14	0.10		0.67	0.49	2	4/3/24 18:39		CMR
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 18:39		CMR
Vinyl Acetate	ND	2.0		ND	7.0	2	4/3/24 18:39		CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/3/24 18:39		CMR
m&p-Xylene	0.29	0.20		1.3	0.87	2	4/3/24 18:39		CMR
o-Xylene	ND	0.10		ND	0.43	2	4/3/24 18:39		CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	85.7	70-130	4/3/24 18:39

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ANALYTICAL RESULTS

 Project Location:
 Date Received: 3/29/2024
Field Sample #: IA-1
Sample ID: 24D0152-02
 Sample Matrix: Indoor air
 Sampled: 3/27/2024 14:10

 Sample Description/Location:
 Sub Description/Location:
 Canister ID: 24588
 Canister Size: 1 liter
 Flow Controller ID: 029553
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 0.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	3.0	1.4		7.0	3.3	0.698	4/3/24 15:27	CMR
Benzene	0.29	0.035		0.93	0.11	0.698	4/3/24 15:27	CMR
Benzyl chloride	ND	0.035		ND	0.18	0.698	4/3/24 15:27	CMR
Bromodichloromethane	ND	0.035		ND	0.23	0.698	4/3/24 15:27	CMR
Bromoform	ND	0.035		ND	0.36	0.698	4/3/24 15:27	CMR
Bromomethane	ND	0.035		ND	0.14	0.698	4/3/24 15:27	CMR
1,3-Butadiene	ND	0.035		ND	0.077	0.698	4/3/24 15:27	CMR
2-Butanone (MEK)	ND	1.4		ND	4.1	0.698	4/3/24 15:27	CMR
Carbon Disulfide	0.75	0.35		2.3	1.1	0.698	4/3/24 15:27	CMR
Carbon Tetrachloride	0.061	0.035		0.39	0.22	0.698	4/3/24 15:27	CMR
Chlorobenzene	ND	0.035		ND	0.16	0.698	4/3/24 15:27	CMR
Chloroethane	ND	0.035		ND	0.092	0.698	4/3/24 15:27	CMR
Chloroform	ND	0.035		ND	0.17	0.698	4/3/24 15:27	CMR
Chloromethane	0.44	0.070		0.92	0.14	0.698	4/3/24 15:27	CMR
Cyclohexane	0.11	0.035		0.39	0.12	0.698	4/3/24 15:27	CMR
Dibromochloromethane	ND	0.035		ND	0.30	0.698	4/3/24 15:27	CMR
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.698	4/3/24 15:27	CMR
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 15:27	CMR
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 15:27	CMR
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 15:27	CMR
Dichlorodifluoromethane (Freon 12)	9.9	0.035		49	0.17	0.698	4/3/24 15:27	CMR
1,1-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 15:27	CMR
1,2-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 15:27	CMR
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 15:27	CMR
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 15:27	CMR
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 15:27	CMR
1,2-Dichloropropane	ND	0.035		ND	0.16	0.698	4/3/24 15:27	CMR
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 15:27	CMR
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 15:27	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.24	0.698	4/3/24 15:27	CMR
1,4-Dioxane	ND	0.35		ND	1.3	0.698	4/3/24 15:27	CMR
Ethanol	4.8	1.4		9.0	2.6	0.698	4/3/24 15:27	CMR
Ethyl Acetate	ND	0.35		ND	1.3	0.698	4/3/24 15:27	CMR
Ethylbenzene	0.11	0.035		0.49	0.15	0.698	4/3/24 15:27	CMR
4-Ethyltoluene	ND	0.035		ND	0.17	0.698	4/3/24 15:27	CMR
Heptane	0.16	0.035		0.64	0.14	0.698	4/3/24 15:27	CMR
Hexachlorobutadiene	ND	0.035		ND	0.37	0.698	4/3/24 15:27	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: IA-1
Sample ID: 24D0152-02
 Sample Matrix: Indoor air
 Sampled: 3/27/2024 14:10

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 24588
 Canister Size: 1 liter
 Flow Controller ID: 029553
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 0.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: Z-01									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	1.4		ND	4.9	0.698	4/3/24 15:27		CMR
2-Hexanone (MBK)	ND	0.035		ND	0.14	0.698	4/3/24 15:27		CMR
Isopropanol	ND	1.4		ND	3.4	0.698	4/3/24 15:27		CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.698	4/3/24 15:27		CMR
Methylene Chloride	ND	0.35		ND	1.2	0.698	4/3/24 15:27		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.698	4/3/24 15:27		CMR
Naphthalene	ND	0.035		ND	0.18	0.698	4/3/24 15:27		CMR
Propene	ND	1.4		ND	2.4	0.698	4/3/24 15:27		CMR
Styrene	ND	0.035		ND	0.15	0.698	4/3/24 15:27		CMR
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.698	4/3/24 15:27		CMR
Tetrachloroethylene	ND	0.035		ND	0.24	0.698	4/3/24 15:27		CMR
Tetrahydrofuran	ND	0.35		ND	1.0	0.698	4/3/24 15:27		CMR
Toluene	0.60	0.035		2.3	0.13	0.698	4/3/24 15:27		CMR
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.698	4/3/24 15:27		CMR
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.698	4/3/24 15:27		CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.698	4/3/24 15:27		CMR
Trichloroethylene	ND	0.035		ND	0.19	0.698	4/3/24 15:27		CMR
Trichlorofluoromethane (Freon 11)	0.29	0.14		1.6	0.78	0.698	4/3/24 15:27		CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14		ND	1.1	0.698	4/3/24 15:27		CMR
1,2,4-Trimethylbenzene	0.075	0.035		0.37	0.17	0.698	4/3/24 15:27		CMR
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.698	4/3/24 15:27		CMR
Vinyl Acetate	ND	0.70		ND	2.5	0.698	4/3/24 15:27		CMR
Vinyl Chloride	ND	0.035		ND	0.089	0.698	4/3/24 15:27		CMR
m&p-Xylene	0.38	0.070		1.7	0.30	0.698	4/3/24 15:27		CMR
o-Xylene	0.13	0.035		0.55	0.15	0.698	4/3/24 15:27		CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.1	70-130	4/3/24 15:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: SS-2
Sample ID: 24D0152-03
Sample Matrix: Sub Slab
Sampled: 3/27/2024 09:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 21170
Canister Size: 1 liter
Flow Controller ID: 14269
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -15
Receipt Vacuum(in Hg): -13.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	6.5	5.3		15	13	2.67	4/3/24 19:36		CMR
Benzene	0.57	0.13		1.8	0.43	2.67	4/3/24 19:36		CMR
Benzyl chloride	ND	0.13		ND	0.69	2.67	4/3/24 19:36		CMR
Bromodichloromethane	ND	0.13		ND	0.89	2.67	4/3/24 19:36		CMR
Bromoform	ND	0.13		ND	1.4	2.67	4/3/24 19:36		CMR
Bromomethane	ND	0.13		ND	0.52	2.67	4/3/24 19:36		CMR
1,3-Butadiene	ND	0.13		ND	0.29	2.67	4/3/24 19:36		CMR
2-Butanone (MEK)	ND	5.3		ND	16	2.67	4/3/24 19:36		CMR
Carbon Disulfide	ND	1.3		ND	4.2	2.67	4/3/24 19:36		CMR
Carbon Tetrachloride	ND	0.13		ND	0.84	2.67	4/3/24 19:36		CMR
Chlorobenzene	ND	0.13		ND	0.61	2.67	4/3/24 19:36		CMR
Chloroethane	ND	0.13		ND	0.35	2.67	4/3/24 19:36		CMR
Chloroform	ND	0.13		ND	0.65	2.67	4/3/24 19:36		CMR
Chloromethane	0.58	0.27		1.2	0.55	2.67	4/3/24 19:36		CMR
Cyclohexane	0.21	0.13		0.73	0.46	2.67	4/3/24 19:36		CMR
Dibromochloromethane	ND	0.13		ND	1.1	2.67	4/3/24 19:36		CMR
1,2-Dibromoethane (EDB)	ND	0.13		ND	1.0	2.67	4/3/24 19:36		CMR
1,2-Dichlorobenzene	ND	0.13		ND	0.80	2.67	4/3/24 19:36		CMR
1,3-Dichlorobenzene	ND	0.13		ND	0.80	2.67	4/3/24 19:36		CMR
1,4-Dichlorobenzene	ND	0.13		ND	0.80	2.67	4/3/24 19:36		CMR
Dichlorodifluoromethane (Freon 12)	7.9	0.13		39	0.66	2.67	4/3/24 19:36		CMR
1,1-Dichloroethane	ND	0.13		ND	0.54	2.67	4/3/24 19:36		CMR
1,2-Dichloroethane	ND	0.13		ND	0.54	2.67	4/3/24 19:36		CMR
1,1-Dichloroethylene	ND	0.13		ND	0.53	2.67	4/3/24 19:36		CMR
cis-1,2-Dichloroethylene	ND	0.13		ND	0.53	2.67	4/3/24 19:36		CMR
trans-1,2-Dichloroethylene	ND	0.13		ND	0.53	2.67	4/3/24 19:36		CMR
1,2-Dichloropropane	ND	0.13		ND	0.62	2.67	4/3/24 19:36		CMR
cis-1,3-Dichloropropene	ND	0.13		ND	0.61	2.67	4/3/24 19:36		CMR
trans-1,3-Dichloropropene	ND	0.13		ND	0.61	2.67	4/3/24 19:36		CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.13		ND	0.93	2.67	4/3/24 19:36		CMR
1,4-Dioxane	ND	1.3		ND	4.8	2.67	4/3/24 19:36		CMR
Ethanol	17	5.3		32	10	2.67	4/3/24 19:36		CMR
Ethyl Acetate	34	1.3		120	4.8	2.67	4/3/24 19:36		CMR
Ethylbenzene	0.18	0.13		0.78	0.58	2.67	4/3/24 19:36		CMR
4-Ethyltoluene	ND	0.13		ND	0.66	2.67	4/3/24 19:36		CMR
Heptane	0.45	0.13		1.9	0.55	2.67	4/3/24 19:36		CMR
Hexachlorobutadiene	ND	0.13		ND	1.4	2.67	4/3/24 19:36		CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: SS-2
Sample ID: 24D0152-03
Sample Matrix: Sub Slab
Sampled: 3/27/2024 09:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 21170
Canister Size: 1 liter
Flow Controller ID: 14269
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -15
Receipt Vacuum(in Hg): -13.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	5.3		ND	19	2.67	4/3/24 19:36	CMR
2-Hexanone (MBK)	ND	0.13		ND	0.55	2.67	4/3/24 19:36	CMR
Isopropanol	ND	5.3		ND	13	2.67	4/3/24 19:36	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.13		ND	0.48	2.67	4/3/24 19:36	CMR
Methylene Chloride	ND	1.3		ND	4.6	2.67	4/3/24 19:36	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.13		ND	0.55	2.67	4/3/24 19:36	CMR
Naphthalene	ND	0.13		ND	0.70	2.67	4/3/24 19:36	CMR
Propene	ND	5.3		ND	9.2	2.67	4/3/24 19:36	CMR
Styrene	ND	0.13		ND	0.57	2.67	4/3/24 19:36	CMR
1,1,2,2-Tetrachloroethane	ND	0.13		ND	0.92	2.67	4/3/24 19:36	CMR
Tetrachloroethylene	ND	0.13		ND	0.90	2.67	4/3/24 19:36	CMR
Tetrahydrofuran	ND	1.3		ND	3.9	2.67	4/3/24 19:36	CMR
Toluene	1.3	0.13		4.7	0.50	2.67	4/3/24 19:36	CMR
1,2,4-Trichlorobenzene	ND	0.13		ND	0.99	2.67	4/3/24 19:36	CMR
1,1,1-Trichloroethane	ND	0.13		ND	0.73	2.67	4/3/24 19:36	CMR
1,1,2-Trichloroethane	ND	0.13		ND	0.73	2.67	4/3/24 19:36	CMR
Trichloroethylene	ND	0.13		ND	0.72	2.67	4/3/24 19:36	CMR
Trichlorofluoromethane (Freon 11)	ND	0.53		ND	3.0	2.67	4/3/24 19:36	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.53		ND	4.1	2.67	4/3/24 19:36	CMR
1,2,4-Trimethylbenzene	0.17	0.13		0.83	0.66	2.67	4/3/24 19:36	CMR
1,3,5-Trimethylbenzene	ND	0.13		ND	0.66	2.67	4/3/24 19:36	CMR
Vinyl Acetate	ND	2.7		ND	9.4	2.67	4/3/24 19:36	CMR
Vinyl Chloride	ND	0.13		ND	0.34	2.67	4/3/24 19:36	CMR
m&p-Xylene	0.58	0.27		2.5	1.2	2.67	4/3/24 19:36	CMR
o-Xylene	0.31	0.13		1.3	0.58	2.67	4/3/24 19:36	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.7	70-130	4/3/24 19:36

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: IA-2
Sample ID: 24D0152-04
 Sample Matrix: Indoor air
 Sampled: 3/27/2024 14:00

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 22052
 Canister Size: 1 liter
 Flow Controller ID: 9897
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 1.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: Z-01									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	ND	1.4		ND	3.3	0.698	4/3/24 15:59		CMR
Benzene	0.93	0.035		3.0	0.11	0.698	4/3/24 15:59		CMR
Benzyl chloride	ND	0.035		ND	0.18	0.698	4/3/24 15:59		CMR
Bromodichloromethane	ND	0.035		ND	0.23	0.698	4/3/24 15:59		CMR
Bromoform	ND	0.035		ND	0.36	0.698	4/3/24 15:59		CMR
Bromomethane	ND	0.035		ND	0.14	0.698	4/3/24 15:59		CMR
1,3-Butadiene	ND	0.035		ND	0.077	0.698	4/3/24 15:59		CMR
2-Butanone (MEK)	ND	1.4		ND	4.1	0.698	4/3/24 15:59		CMR
Carbon Disulfide	ND	0.35		ND	1.1	0.698	4/3/24 15:59		CMR
Carbon Tetrachloride	0.061	0.035		0.39	0.22	0.698	4/3/24 15:59		CMR
Chlorobenzene	ND	0.035		ND	0.16	0.698	4/3/24 15:59		CMR
Chloroethane	ND	0.035		ND	0.092	0.698	4/3/24 15:59		CMR
Chloroform	ND	0.035		ND	0.17	0.698	4/3/24 15:59		CMR
Chloromethane	0.51	0.070		1.1	0.14	0.698	4/3/24 15:59		CMR
Cyclohexane	0.59	0.035		2.0	0.12	0.698	4/3/24 15:59		CMR
Dibromochloromethane	ND	0.035		ND	0.30	0.698	4/3/24 15:59		CMR
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.698	4/3/24 15:59		CMR
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 15:59		CMR
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 15:59		CMR
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 15:59		CMR
Dichlorodifluoromethane (Freon 12)	3.8	0.035		19	0.17	0.698	4/3/24 15:59		CMR
1,1-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 15:59		CMR
1,2-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 15:59		CMR
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 15:59		CMR
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 15:59		CMR
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 15:59		CMR
1,2-Dichloropropane	ND	0.035		ND	0.16	0.698	4/3/24 15:59		CMR
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 15:59		CMR
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 15:59		CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.24	0.698	4/3/24 15:59		CMR
1,4-Dioxane	ND	0.35		ND	1.3	0.698	4/3/24 15:59		CMR
Ethanol	5.0	1.4		9.4	2.6	0.698	4/3/24 15:59		CMR
Ethyl Acetate	ND	0.35		ND	1.3	0.698	4/3/24 15:59		CMR
Ethylbenzene	0.34	0.035		1.5	0.15	0.698	4/3/24 15:59		CMR
4-Ethyltoluene	0.057	0.035		0.28	0.17	0.698	4/3/24 15:59		CMR
Heptane	0.77	0.035		3.1	0.14	0.698	4/3/24 15:59		CMR
Hexachlorobutadiene	ND	0.035		ND	0.37	0.698	4/3/24 15:59		CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: IA-2
Sample ID: 24D0152-04
Sample Matrix: Indoor air
Sampled: 3/27/2024 14:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 22052
Canister Size: 1 liter
Flow Controller ID: 9897
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 1.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: Z-01									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	1.6	1.4		5.6	4.9	0.698	4/3/24 15:59		CMR
2-Hexanone (MBK)	ND	0.035		ND	0.14	0.698	4/3/24 15:59		CMR
Isopropanol	ND	1.4		ND	3.4	0.698	4/3/24 15:59		CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.698	4/3/24 15:59		CMR
Methylene Chloride	ND	0.35		ND	1.2	0.698	4/3/24 15:59		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.698	4/3/24 15:59		CMR
Naphthalene	0.036	0.035		0.19	0.18	0.698	4/3/24 15:59		CMR
Propene	1.9	1.4		3.2	2.4	0.698	4/3/24 15:59		CMR
Styrene	0.059	0.035		0.25	0.15	0.698	4/3/24 15:59		CMR
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.698	4/3/24 15:59		CMR
Tetrachloroethylene	0.052	0.035		0.35	0.24	0.698	4/3/24 15:59		CMR
Tetrahydrofuran	0.49	0.35		1.5	1.0	0.698	4/3/24 15:59		CMR
Toluene	2.4	0.035		8.9	0.13	0.698	4/3/24 15:59		CMR
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.698	4/3/24 15:59		CMR
1,1,1-Trichloroethane	0.083	0.035		0.45	0.19	0.698	4/3/24 15:59		CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.698	4/3/24 15:59		CMR
Trichloroethylene	ND	0.035		ND	0.19	0.698	4/3/24 15:59		CMR
Trichlorofluoromethane (Freon 11)	0.24	0.14		1.3	0.78	0.698	4/3/24 15:59		CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14		ND	1.1	0.698	4/3/24 15:59		CMR
1,2,4-Trimethylbenzene	0.32	0.035		1.6	0.17	0.698	4/3/24 15:59		CMR
1,3,5-Trimethylbenzene	0.10	0.035		0.50	0.17	0.698	4/3/24 15:59		CMR
Vinyl Acetate	2.0	0.70		7.1	2.5	0.698	4/3/24 15:59		CMR
Vinyl Chloride	ND	0.035		ND	0.089	0.698	4/3/24 15:59		CMR
m&p-Xylene	1.1	0.070		4.7	0.30	0.698	4/3/24 15:59		CMR
o-Xylene	0.40	0.035		1.7	0.15	0.698	4/3/24 15:59		CMR
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	94.5			70-130			4/3/24 15:59		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: SS-3
Sample ID: 24D0152-05
Sample Matrix: Sub Slab
Sampled: 3/27/2024 14:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 23595
Canister Size: 1 liter
Flow Controller ID: 10009
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 1.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: Z-01									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	ND	4.0		ND	9.5	2	4/3/24 20:03	CMR	
Benzene	1.9	0.10		6.1	0.32	2	4/3/24 20:03	CMR	
Benzyl chloride	ND	0.10		ND	0.52	2	4/3/24 20:03	CMR	
Bromodichloromethane	ND	0.10		ND	0.67	2	4/3/24 20:03	CMR	
Bromoform	ND	0.10		ND	1.0	2	4/3/24 20:03	CMR	
Bromomethane	ND	0.10		ND	0.39	2	4/3/24 20:03	CMR	
1,3-Butadiene	ND	0.10		ND	0.22	2	4/3/24 20:03	CMR	
2-Butanone (MEK)	ND	4.0		ND	12	2	4/3/24 20:03	CMR	
Carbon Disulfide	23	1.0		72	3.1	2	4/3/24 20:03	CMR	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	4/3/24 20:03	CMR	
Chlorobenzene	ND	0.10		ND	0.46	2	4/3/24 20:03	CMR	
Chloroethane	ND	0.10		ND	0.26	2	4/3/24 20:03	CMR	
Chloroform	0.30	0.10		1.5	0.49	2	4/3/24 20:03	CMR	
Chloromethane	0.28	0.20		0.58	0.41	2	4/3/24 20:03	CMR	
Cyclohexane	6.2	0.10		21	0.34	2	4/3/24 20:03	CMR	
Dibromochloromethane	ND	0.10		ND	0.85	2	4/3/24 20:03	CMR	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	4/3/24 20:03	CMR	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 20:03	CMR	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 20:03	CMR	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 20:03	CMR	
Dichlorodifluoromethane (Freon 12)	0.99	0.10		4.9	0.49	2	4/3/24 20:03	CMR	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 20:03	CMR	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 20:03	CMR	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 20:03	CMR	
cis-1,2-Dichloroethylene	0.47	0.10		1.9	0.40	2	4/3/24 20:03	CMR	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 20:03	CMR	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	4/3/24 20:03	CMR	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 20:03	CMR	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 20:03	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	4/3/24 20:03	CMR	
1,4-Dioxane	ND	1.0		ND	3.6	2	4/3/24 20:03	CMR	
Ethanol	21	4.0		39	7.5	2	4/3/24 20:03	CMR	
Ethyl Acetate	ND	1.0		ND	3.6	2	4/3/24 20:03	CMR	
Ethylbenzene	0.21	0.10		0.89	0.43	2	4/3/24 20:03	CMR	
4-Ethyltoluene	ND	0.10		ND	0.49	2	4/3/24 20:03	CMR	
Heptane	6.8	0.10		28	0.41	2	4/3/24 20:03	CMR	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	4/3/24 20:03	CMR	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: SS-3
Sample ID: 24D0152-05
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 23595
 Canister Size: 1 liter
 Flow Controller ID: 10009
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 1.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	7.5	4.0		26	14	2	4/3/24 20:03	CMR
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	4/3/24 20:03	CMR
Isopropanol	ND	4.0		ND	9.8	2	4/3/24 20:03	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	4/3/24 20:03	CMR
Methylene Chloride	ND	1.0		ND	3.5	2	4/3/24 20:03	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	4/3/24 20:03	CMR
Naphthalene	ND	0.10		ND	0.52	2	4/3/24 20:03	CMR
Propene	ND	4.0		ND	6.9	2	4/3/24 20:03	CMR
Styrene	0.12	0.10		0.51	0.43	2	4/3/24 20:03	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/3/24 20:03	CMR
Tetrachloroethylene	6.6	0.10		45	0.68	2	4/3/24 20:03	CMR
Tetrahydrofuran	ND	1.0		ND	2.9	2	4/3/24 20:03	CMR
Toluene	2.4	0.10		8.9	0.38	2	4/3/24 20:03	CMR
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	4/3/24 20:03	CMR
1,1,1-Trichloroethane	0.17	0.10		0.91	0.55	2	4/3/24 20:03	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 20:03	CMR
Trichloroethylene	3.8	0.10		20	0.54	2	4/3/24 20:03	CMR
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	4/3/24 20:03	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	4/3/24 20:03	CMR
1,2,4-Trimethylbenzene	0.15	0.10		0.75	0.49	2	4/3/24 20:03	CMR
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 20:03	CMR
Vinyl Acetate	8.4	2.0		29	7.0	2	4/3/24 20:03	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/3/24 20:03	CMR
m&p-Xylene	0.58	0.20		2.5	0.87	2	4/3/24 20:03	CMR
o-Xylene	0.21	0.10		0.89	0.43	2	4/3/24 20:03	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.6	70-130	4/3/24 20:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: IA-3
Sample ID: 24D0152-06
Sample Matrix: Indoor air
Sampled: 3/27/2024 14:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 24730
Canister Size: 1 liter
Flow Controller ID: 14236
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 1.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	5.8	1.4		14	3.3	0.698	4/3/24 16:32	CMR
Benzene	0.48	0.035		1.5	0.11	0.698	4/3/24 16:32	CMR
Benzyl chloride	ND	0.035		ND	0.18	0.698	4/3/24 16:32	CMR
Bromodichloromethane	ND	0.035		ND	0.23	0.698	4/3/24 16:32	CMR
Bromoform	ND	0.035		ND	0.36	0.698	4/3/24 16:32	CMR
Bromomethane	0.041	0.035		0.16	0.14	0.698	4/3/24 16:32	CMR
1,3-Butadiene	ND	0.035		ND	0.077	0.698	4/3/24 16:32	CMR
2-Butanone (MEK)	ND	1.4		ND	4.1	0.698	4/3/24 16:32	CMR
Carbon Disulfide	ND	0.35		ND	1.1	0.698	4/3/24 16:32	CMR
Carbon Tetrachloride	0.040	0.035		0.25	0.22	0.698	4/3/24 16:32	CMR
Chlorobenzene	ND	0.035		ND	0.16	0.698	4/3/24 16:32	CMR
Chloroethane	0.055	0.035		0.15	0.092	0.698	4/3/24 16:32	CMR
Chloroform	ND	0.035		ND	0.17	0.698	4/3/24 16:32	CMR
Chloromethane	0.65	0.070		1.3	0.14	0.698	4/3/24 16:32	CMR
Cyclohexane	0.28	0.035		0.97	0.12	0.698	4/3/24 16:32	CMR
Dibromochloromethane	ND	0.035		ND	0.30	0.698	4/3/24 16:32	CMR
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.698	4/3/24 16:32	CMR
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 16:32	CMR
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 16:32	CMR
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 16:32	CMR
Dichlorodifluoromethane (Freon 12)	0.75	0.035		3.7	0.17	0.698	4/3/24 16:32	CMR
1,1-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 16:32	CMR
1,2-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 16:32	CMR
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 16:32	CMR
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 16:32	CMR
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 16:32	CMR
1,2-Dichloropropane	ND	0.035		ND	0.16	0.698	4/3/24 16:32	CMR
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 16:32	CMR
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 16:32	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.24	0.698	4/3/24 16:32	CMR
1,4-Dioxane	ND	0.35		ND	1.3	0.698	4/3/24 16:32	CMR
Ethanol	8.8	1.4		17	2.6	0.698	4/3/24 16:32	CMR
Ethyl Acetate	ND	0.35		ND	1.3	0.698	4/3/24 16:32	CMR
Ethylbenzene	0.18	0.035		0.78	0.15	0.698	4/3/24 16:32	CMR
4-Ethyltoluene	0.040	0.035		0.20	0.17	0.698	4/3/24 16:32	CMR
Heptane	0.40	0.035		1.6	0.14	0.698	4/3/24 16:32	CMR
Hexachlorobutadiene	ND	0.035		ND	0.37	0.698	4/3/24 16:32	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: IA-3
Sample ID: 24D0152-06
 Sample Matrix: Indoor air
 Sampled: 3/27/2024 14:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 24730
 Canister Size: 1 liter
 Flow Controller ID: 14236
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 1.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.698	4/3/24 16:32	CMR
2-Hexanone (MBK)	0.10	0.035		0.42	0.14	0.698	4/3/24 16:32	CMR
Isopropanol	3.3	1.4		8.0	3.4	0.698	4/3/24 16:32	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.698	4/3/24 16:32	CMR
Methylene Chloride	ND	0.35		ND	1.2	0.698	4/3/24 16:32	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.698	4/3/24 16:32	CMR
Naphthalene	ND	0.035		ND	0.18	0.698	4/3/24 16:32	CMR
Propene	ND	1.4		ND	2.4	0.698	4/3/24 16:32	CMR
Styrene	ND	0.035		ND	0.15	0.698	4/3/24 16:32	CMR
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.698	4/3/24 16:32	CMR
Tetrachloroethylene	0.038	0.035		0.26	0.24	0.698	4/3/24 16:32	CMR
Tetrahydrofuran	0.36	0.35		1.1	1.0	0.698	4/3/24 16:32	CMR
Toluene	1.3	0.035		4.9	0.13	0.698	4/3/24 16:32	CMR
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.698	4/3/24 16:32	CMR
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.698	4/3/24 16:32	CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.698	4/3/24 16:32	CMR
Trichloroethylene	ND	0.035		ND	0.19	0.698	4/3/24 16:32	CMR
Trichlorofluoromethane (Freon 11)	0.21	0.14		1.2	0.78	0.698	4/3/24 16:32	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14		ND	1.1	0.698	4/3/24 16:32	CMR
1,2,4-Trimethylbenzene	0.16	0.035		0.77	0.17	0.698	4/3/24 16:32	CMR
1,3,5-Trimethylbenzene	0.051	0.035		0.25	0.17	0.698	4/3/24 16:32	CMR
Vinyl Acetate	1.1	0.70		3.9	2.5	0.698	4/3/24 16:32	CMR
Vinyl Chloride	ND	0.035		ND	0.089	0.698	4/3/24 16:32	CMR
m&p-Xylene	0.60	0.070		2.6	0.30	0.698	4/3/24 16:32	CMR
o-Xylene	0.24	0.035		1.1	0.15	0.698	4/3/24 16:32	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.2	70-130	4/3/24 16:32

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: SS-4
Sample ID: 24D0152-07
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:15

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 24020
 Canister Size: 1 liter
 Flow Controller ID: 29504
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 1.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	6.4	4.0		15	9.5	2	4/3/24 20:31	CMR
Benzene	0.34	0.10		1.1	0.32	2	4/3/24 20:31	CMR
Benzyl chloride	ND	0.10		ND	0.52	2	4/3/24 20:31	CMR
Bromodichloromethane	ND	0.10		ND	0.67	2	4/3/24 20:31	CMR
Bromoform	ND	0.10		ND	1.0	2	4/3/24 20:31	CMR
Bromomethane	ND	0.10		ND	0.39	2	4/3/24 20:31	CMR
1,3-Butadiene	ND	0.10		ND	0.22	2	4/3/24 20:31	CMR
2-Butanone (MEK)	ND	4.0		ND	12	2	4/3/24 20:31	CMR
Carbon Disulfide	7.5	1.0		23	3.1	2	4/3/24 20:31	CMR
Carbon Tetrachloride	ND	0.10		ND	0.63	2	4/3/24 20:31	CMR
Chlorobenzene	ND	0.10		ND	0.46	2	4/3/24 20:31	CMR
Chloroethane	ND	0.10		ND	0.26	2	4/3/24 20:31	CMR
Chloroform	ND	0.10		ND	0.49	2	4/3/24 20:31	CMR
Chloromethane	ND	0.20		ND	0.41	2	4/3/24 20:31	CMR
Cyclohexane	0.93	0.10		3.2	0.34	2	4/3/24 20:31	CMR
Dibromochloromethane	ND	0.10		ND	0.85	2	4/3/24 20:31	CMR
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	4/3/24 20:31	CMR
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 20:31	CMR
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 20:31	CMR
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 20:31	CMR
Dichlorodifluoromethane (Freon 12)	1.9	0.10		9.2	0.49	2	4/3/24 20:31	CMR
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 20:31	CMR
1,2-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 20:31	CMR
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 20:31	CMR
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 20:31	CMR
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 20:31	CMR
1,2-Dichloropropane	ND	0.10		ND	0.46	2	4/3/24 20:31	CMR
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 20:31	CMR
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 20:31	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	4/3/24 20:31	CMR
1,4-Dioxane	ND	1.0		ND	3.6	2	4/3/24 20:31	CMR
Ethanol	9.8	4.0		18	7.5	2	4/3/24 20:31	CMR
Ethyl Acetate	ND	1.0		ND	3.6	2	4/3/24 20:31	CMR
Ethylbenzene	0.13	0.10		0.58	0.43	2	4/3/24 20:31	CMR
4-Ethyltoluene	ND	0.10		ND	0.49	2	4/3/24 20:31	CMR
Heptane	0.58	0.10		2.4	0.41	2	4/3/24 20:31	CMR
Hexachlorobutadiene	ND	0.10		ND	1.1	2	4/3/24 20:31	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: SS-4
Sample ID: 24D0152-07
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:15

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 24020
 Canister Size: 1 liter
 Flow Controller ID: 29504
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 1.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	4/3/24 20:31	CMR
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	4/3/24 20:31	CMR
Isopropanol	ND	4.0		ND	9.8	2	4/3/24 20:31	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	4/3/24 20:31	CMR
Methylene Chloride	ND	1.0		ND	3.5	2	4/3/24 20:31	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	4/3/24 20:31	CMR
Naphthalene	ND	0.10		ND	0.52	2	4/3/24 20:31	CMR
Propene	ND	4.0		ND	6.9	2	4/3/24 20:31	CMR
Styrene	ND	0.10		ND	0.43	2	4/3/24 20:31	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/3/24 20:31	CMR
Tetrachloroethylene	0.10	0.10		0.69	0.68	2	4/3/24 20:31	CMR
Tetrahydrofuran	ND	1.0		ND	2.9	2	4/3/24 20:31	CMR
Toluene	1.0	0.10		3.8	0.38	2	4/3/24 20:31	CMR
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	4/3/24 20:31	CMR
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 20:31	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 20:31	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/3/24 20:31	CMR
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	4/3/24 20:31	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	4/3/24 20:31	CMR
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 20:31	CMR
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 20:31	CMR
Vinyl Acetate	ND	2.0		ND	7.0	2	4/3/24 20:31	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/3/24 20:31	CMR
m&p-Xylene	0.32	0.20		1.4	0.87	2	4/3/24 20:31	CMR
o-Xylene	0.14	0.10		0.59	0.43	2	4/3/24 20:31	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	87.2	70-130	4/3/24 20:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

 Project Location:
 Date Received: 3/29/2024
Field Sample #: IA-4
Sample ID: 24D0152-08
 Sample Matrix: Indoor air
 Sampled: 3/27/2024 14:15

 Sample Description/Location:
 Sub Description/Location:
 Canister ID: 14016
 Canister Size: 1 liter
 Flow Controller ID: 15679
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 1.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	ND	1.4		ND	3.3	0.698	4/3/24 17:05	CMR
Benzene	0.81	0.035		2.6	0.11	0.698	4/3/24 17:05	CMR
Benzyl chloride	ND	0.035		ND	0.18	0.698	4/3/24 17:05	CMR
Bromodichloromethane	ND	0.035		ND	0.23	0.698	4/3/24 17:05	CMR
Bromoform	ND	0.035		ND	0.36	0.698	4/3/24 17:05	CMR
Bromomethane	ND	0.035		ND	0.14	0.698	4/3/24 17:05	CMR
1,3-Butadiene	0.29	0.035		0.63	0.077	0.698	4/3/24 17:05	CMR
2-Butanone (MEK)	ND	1.4		ND	4.1	0.698	4/3/24 17:05	CMR
Carbon Disulfide	ND	0.35		ND	1.1	0.698	4/3/24 17:05	CMR
Carbon Tetrachloride	0.052	0.035		0.32	0.22	0.698	4/3/24 17:05	CMR
Chlorobenzene	ND	0.035		ND	0.16	0.698	4/3/24 17:05	CMR
Chloroethane	ND	0.035		ND	0.092	0.698	4/3/24 17:05	CMR
Chloroform	ND	0.035		ND	0.17	0.698	4/3/24 17:05	CMR
Chloromethane	0.47	0.070		0.98	0.14	0.698	4/3/24 17:05	CMR
Cyclohexane	0.46	0.035		1.6	0.12	0.698	4/3/24 17:05	CMR
Dibromochloromethane	ND	0.035		ND	0.30	0.698	4/3/24 17:05	CMR
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.698	4/3/24 17:05	CMR
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 17:05	CMR
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 17:05	CMR
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 17:05	CMR
Dichlorodifluoromethane (Freon 12)	1.5	0.035		7.4	0.17	0.698	4/3/24 17:05	CMR
1,1-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 17:05	CMR
1,2-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 17:05	CMR
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 17:05	CMR
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 17:05	CMR
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 17:05	CMR
1,2-Dichloropropane	ND	0.035		ND	0.16	0.698	4/3/24 17:05	CMR
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 17:05	CMR
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 17:05	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.24	0.698	4/3/24 17:05	CMR
1,4-Dioxane	ND	0.35		ND	1.3	0.698	4/3/24 17:05	CMR
Ethanol	6.7	1.4		13	2.6	0.698	4/3/24 17:05	CMR
Ethyl Acetate	ND	0.35		ND	1.3	0.698	4/3/24 17:05	CMR
Ethylbenzene	0.33	0.035		1.4	0.15	0.698	4/3/24 17:05	CMR
4-Ethyltoluene	0.084	0.035		0.41	0.17	0.698	4/3/24 17:05	CMR
Heptane	0.57	0.035		2.3	0.14	0.698	4/3/24 17:05	CMR
Hexachlorobutadiene	ND	0.035		ND	0.37	0.698	4/3/24 17:05	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: 1A-4
Sample ID: 24D0152-08
Sample Matrix: Indoor air
Sampled: 3/27/2024 14:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 14016
Canister Size: 1 liter
Flow Controller ID: 15679
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 1.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.698	4/3/24 17:05	CMR
2-Hexanone (MBK)	0.10	0.035		0.42	0.14	0.698	4/3/24 17:05	CMR
Isopropanol	ND	1.4		ND	3.4	0.698	4/3/24 17:05	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.698	4/3/24 17:05	CMR
Methylene Chloride	ND	0.35		ND	1.2	0.698	4/3/24 17:05	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.698	4/3/24 17:05	CMR
Naphthalene	0.15	0.035		0.78	0.18	0.698	4/3/24 17:05	CMR
Propene	1.7	1.4		2.9	2.4	0.698	4/3/24 17:05	CMR
Styrene	0.057	0.035		0.24	0.15	0.698	4/3/24 17:05	CMR
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.698	4/3/24 17:05	CMR
Tetrachloroethylene	0.056	0.035		0.38	0.24	0.698	4/3/24 17:05	CMR
Tetrahydrofuran	0.41	0.35		1.2	1.0	0.698	4/3/24 17:05	CMR
Toluene	2.1	0.035		7.8	0.13	0.698	4/3/24 17:05	CMR
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.698	4/3/24 17:05	CMR
1,1,1-Trichloroethane	0.14	0.035		0.77	0.19	0.698	4/3/24 17:05	CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.698	4/3/24 17:05	CMR
Trichloroethylene	ND	0.035		ND	0.19	0.698	4/3/24 17:05	CMR
Trichlorofluoromethane (Freon 11)	0.24	0.14		1.3	0.78	0.698	4/3/24 17:05	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14		ND	1.1	0.698	4/3/24 17:05	CMR
1,2,4-Trimethylbenzene	0.36	0.035		1.8	0.17	0.698	4/3/24 17:05	CMR
1,3,5-Trimethylbenzene	0.097	0.035		0.48	0.17	0.698	4/3/24 17:05	CMR
Vinyl Acetate	1.6	0.70		5.7	2.5	0.698	4/3/24 17:05	CMR
Vinyl Chloride	ND	0.035		ND	0.089	0.698	4/3/24 17:05	CMR
m&p-Xylene	1.1	0.070		4.6	0.30	0.698	4/3/24 17:05	CMR
o-Xylene	0.46	0.035		2.0	0.15	0.698	4/3/24 17:05	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.1	70-130	4/3/24 17:05

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: SS-5
Sample ID: 24D0152-09
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:20

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 10439
 Canister Size: 1 liter
 Flow Controller ID: 29469
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 0.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	17	4.0		40	9.5	2	4/3/24 21:00	CMR
Benzene	0.97	0.10		3.1	0.32	2	4/3/24 21:00	CMR
Benzyl chloride	ND	0.10		ND	0.52	2	4/3/24 21:00	CMR
Bromodichloromethane	ND	0.10		ND	0.67	2	4/3/24 21:00	CMR
Bromoform	ND	0.10		ND	1.0	2	4/3/24 21:00	CMR
Bromomethane	ND	0.10		ND	0.39	2	4/3/24 21:00	CMR
1,3-Butadiene	ND	0.10		ND	0.22	2	4/3/24 21:00	CMR
2-Butanone (MEK)	ND	4.0		ND	12	2	4/3/24 21:00	CMR
Carbon Disulfide	26	1.0		81	3.1	2	4/3/24 21:00	CMR
Carbon Tetrachloride	ND	0.10		ND	0.63	2	4/3/24 21:00	CMR
Chlorobenzene	ND	0.10		ND	0.46	2	4/3/24 21:00	CMR
Chloroethane	ND	0.10		ND	0.26	2	4/3/24 21:00	CMR
Chloroform	0.47	0.10		2.3	0.49	2	4/3/24 21:00	CMR
Chloromethane	ND	0.20		ND	0.41	2	4/3/24 21:00	CMR
Cyclohexane	6.9	0.10		24	0.34	2	4/3/24 21:00	CMR
Dibromochloromethane	ND	0.10		ND	0.85	2	4/3/24 21:00	CMR
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	4/3/24 21:00	CMR
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 21:00	CMR
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 21:00	CMR
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 21:00	CMR
Dichlorodifluoromethane (Freon 12)	1.4	0.10		7.1	0.49	2	4/3/24 21:00	CMR
1,1-Dichloroethane	1.1	0.10		4.6	0.40	2	4/3/24 21:00	CMR
1,2-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 21:00	CMR
1,1-Dichloroethylene	0.16	0.10		0.63	0.40	2	4/3/24 21:00	CMR
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 21:00	CMR
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 21:00	CMR
1,2-Dichloropropane	ND	0.10		ND	0.46	2	4/3/24 21:00	CMR
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 21:00	CMR
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 21:00	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	4/3/24 21:00	CMR
1,4-Dioxane	ND	1.0		ND	3.6	2	4/3/24 21:00	CMR
Ethanol	13	4.0		25	7.5	2	4/3/24 21:00	CMR
Ethyl Acetate	ND	1.0		ND	3.6	2	4/3/24 21:00	CMR
Ethylbenzene	0.13	0.10		0.55	0.43	2	4/3/24 21:00	CMR
4-Ethyltoluene	ND	0.10		ND	0.49	2	4/3/24 21:00	CMR
Heptane	3.7	0.10		15	0.41	2	4/3/24 21:00	CMR
Hexachlorobutadiene	ND	0.10		ND	1.1	2	4/3/24 21:00	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: SS-5
Sample ID: 24D0152-09
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:20

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 10439
 Canister Size: 1 liter
 Flow Controller ID: 29469
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 0.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	4/3/24 21:00	CMR
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	4/3/24 21:00	CMR
Isopropanol	ND	4.0		ND	9.8	2	4/3/24 21:00	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	4/3/24 21:00	CMR
Methylene Chloride	ND	1.0		ND	3.5	2	4/3/24 21:00	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	4/3/24 21:00	CMR
Naphthalene	ND	0.10		ND	0.52	2	4/3/24 21:00	CMR
Propene	ND	4.0		ND	6.9	2	4/3/24 21:00	CMR
Styrene	ND	0.10		ND	0.43	2	4/3/24 21:00	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/3/24 21:00	CMR
Tetrachloroethylene	0.71	0.10		4.8	0.68	2	4/3/24 21:00	CMR
Tetrahydrofuran	ND	1.0		ND	2.9	2	4/3/24 21:00	CMR
Toluene	1.5	0.10		5.7	0.38	2	4/3/24 21:00	CMR
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	4/3/24 21:00	CMR
1,1,1-Trichloroethane	120	0.20		640	1.1	4	4/4/24 8:30	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 21:00	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/3/24 21:00	CMR
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	4/3/24 21:00	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	4/3/24 21:00	CMR
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 21:00	CMR
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 21:00	CMR
Vinyl Acetate	4.1	2.0		14	7.0	2	4/3/24 21:00	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/3/24 21:00	CMR
m&p-Xylene	0.42	0.20		1.8	0.87	2	4/3/24 21:00	CMR
o-Xylene	0.17	0.10		0.76	0.43	2	4/3/24 21:00	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.3	70-130	4/3/24 21:00
4-Bromofluorobenzene (1)	85.6	70-130	4/4/24 8:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

 Project Location:
 Date Received: 3/29/2024
Field Sample #: IA-5
Sample ID: 24D0152-10
 Sample Matrix: Indoor air
 Sampled: 3/27/2024 14:20

 Sample Description/Location:
 Sub Description/Location:
 Canister ID: 21443
 Canister Size: 1 liter
 Flow Controller ID: 29542
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 1.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	ND	1.4		ND	3.3	0.698	4/3/24 17:38	CMR
Benzene	0.84	0.035		2.7	0.11	0.698	4/3/24 17:38	CMR
Benzyl chloride	ND	0.035		ND	0.18	0.698	4/3/24 17:38	CMR
Bromodichloromethane	ND	0.035		ND	0.23	0.698	4/3/24 17:38	CMR
Bromoform	ND	0.035		ND	0.36	0.698	4/3/24 17:38	CMR
Bromomethane	ND	0.035		ND	0.14	0.698	4/3/24 17:38	CMR
1,3-Butadiene	0.25	0.035		0.55	0.077	0.698	4/3/24 17:38	CMR
2-Butanone (MEK)	ND	1.4		ND	4.1	0.698	4/3/24 17:38	CMR
Carbon Disulfide	ND	0.35		ND	1.1	0.698	4/3/24 17:38	CMR
Carbon Tetrachloride	0.068	0.035		0.43	0.22	0.698	4/3/24 17:38	CMR
Chlorobenzene	ND	0.035		ND	0.16	0.698	4/3/24 17:38	CMR
Chloroethane	ND	0.035		ND	0.092	0.698	4/3/24 17:38	CMR
Chloroform	ND	0.035		ND	0.17	0.698	4/3/24 17:38	CMR
Chloromethane	0.55	0.070		1.1	0.14	0.698	4/3/24 17:38	CMR
Cyclohexane	0.48	0.035		1.7	0.12	0.698	4/3/24 17:38	CMR
Dibromochloromethane	ND	0.035		ND	0.30	0.698	4/3/24 17:38	CMR
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.698	4/3/24 17:38	CMR
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 17:38	CMR
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 17:38	CMR
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 17:38	CMR
Dichlorodifluoromethane (Freon 12)	1.1	0.035		5.5	0.17	0.698	4/3/24 17:38	CMR
1,1-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 17:38	CMR
1,2-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 17:38	CMR
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 17:38	CMR
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 17:38	CMR
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 17:38	CMR
1,2-Dichloropropane	ND	0.035		ND	0.16	0.698	4/3/24 17:38	CMR
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 17:38	CMR
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 17:38	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.24	0.698	4/3/24 17:38	CMR
1,4-Dioxane	ND	0.35		ND	1.3	0.698	4/3/24 17:38	CMR
Ethanol	13	1.4		25	2.6	0.698	4/3/24 17:38	CMR
Ethyl Acetate	ND	0.35		ND	1.3	0.698	4/3/24 17:38	CMR
Ethylbenzene	0.32	0.035		1.4	0.15	0.698	4/3/24 17:38	CMR
4-Ethyltoluene	0.071	0.035		0.35	0.17	0.698	4/3/24 17:38	CMR
Heptane	0.92	0.035		3.8	0.14	0.698	4/3/24 17:38	CMR
Hexachlorobutadiene	ND	0.035		ND	0.37	0.698	4/3/24 17:38	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: IA-5
Sample ID: 24D0152-10
 Sample Matrix: Indoor air
 Sampled: 3/27/2024 14:20

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 21443
 Canister Size: 1 liter
 Flow Controller ID: 29542
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 1.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	1.4	1.4		5.0	4.9	0.698	4/3/24 17:38	CMR
2-Hexanone (MBK)	ND	0.035		ND	0.14	0.698	4/3/24 17:38	CMR
Isopropanol	ND	1.4		ND	3.4	0.698	4/3/24 17:38	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.698	4/3/24 17:38	CMR
Methylene Chloride	ND	0.35		ND	1.2	0.698	4/3/24 17:38	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.698	4/3/24 17:38	CMR
Naphthalene	ND	0.035		ND	0.18	0.698	4/3/24 17:38	CMR
Propene	1.7	1.4		2.9	2.4	0.698	4/3/24 17:38	CMR
Styrene	0.044	0.035		0.19	0.15	0.698	4/3/24 17:38	CMR
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.698	4/3/24 17:38	CMR
Tetrachloroethylene	0.050	0.035		0.34	0.24	0.698	4/3/24 17:38	CMR
Tetrahydrofuran	ND	0.35		ND	1.0	0.698	4/3/24 17:38	CMR
Toluene	2.5	0.035		9.6	0.13	0.698	4/3/24 17:38	CMR
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.698	4/3/24 17:38	CMR
1,1,1-Trichloroethane	0.060	0.035		0.33	0.19	0.698	4/3/24 17:38	CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.698	4/3/24 17:38	CMR
Trichloroethylene	ND	0.035		ND	0.19	0.698	4/3/24 17:38	CMR
Trichlorofluoromethane (Freon 11)	0.23	0.14		1.3	0.78	0.698	4/3/24 17:38	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14		ND	1.1	0.698	4/3/24 17:38	CMR
1,2,4-Trimethylbenzene	0.23	0.035		1.1	0.17	0.698	4/3/24 17:38	CMR
1,3,5-Trimethylbenzene	0.080	0.035		0.39	0.17	0.698	4/3/24 17:38	CMR
Vinyl Acetate	1.7	0.70		6.0	2.5	0.698	4/3/24 17:38	CMR
Vinyl Chloride	ND	0.035		ND	0.089	0.698	4/3/24 17:38	CMR
m&p-Xylene	1.0	0.070		4.5	0.30	0.698	4/3/24 17:38	CMR
o-Xylene	0.43	0.035		1.9	0.15	0.698	4/3/24 17:38	CMR

Surrogates	% Recovery	% REC Limits
4-Bromofluorobenzene (1)	90.1	70-130

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

 Project Location:
 Date Received: 3/29/2024
Field Sample #: SV-1
Sample ID: 24D0152-11
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:30

 Sample Description/Location:
 Sub Description/Location:
 Canister ID: 20313
 Canister Size: 1 liter
 Flow Controller ID: 29546
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 0.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: Z-01									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	15	4.0		37	9.5	2	4/3/24 21:27	CMR	
Benzene	0.29	0.10		0.91	0.32	2	4/3/24 21:27	CMR	
Benzyl chloride	ND	0.10		ND	0.52	2	4/3/24 21:27	CMR	
Bromodichloromethane	ND	0.10		ND	0.67	2	4/3/24 21:27	CMR	
Bromoform	ND	0.10		ND	1.0	2	4/3/24 21:27	CMR	
Bromomethane	ND	0.10		ND	0.39	2	4/3/24 21:27	CMR	
1,3-Butadiene	ND	0.10		ND	0.22	2	4/3/24 21:27	CMR	
2-Butanone (MEK)	ND	4.0		ND	12	2	4/3/24 21:27	CMR	
Carbon Disulfide	ND	1.0		ND	3.1	2	4/3/24 21:27	CMR	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	4/3/24 21:27	CMR	
Chlorobenzene	ND	0.10		ND	0.46	2	4/3/24 21:27	CMR	
Chloroethane	ND	0.10		ND	0.26	2	4/3/24 21:27	CMR	
Chloroform	ND	0.10		ND	0.49	2	4/3/24 21:27	CMR	
Chloromethane	0.62	0.20		1.3	0.41	2	4/3/24 21:27	CMR	
Cyclohexane	ND	0.10		ND	0.34	2	4/3/24 21:27	CMR	
Dibromochloromethane	ND	0.10		ND	0.85	2	4/3/24 21:27	CMR	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	4/3/24 21:27	CMR	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 21:27	CMR	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 21:27	CMR	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 21:27	CMR	
Dichlorodifluoromethane (Freon 12)	0.46	0.10		2.3	0.49	2	4/3/24 21:27	CMR	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 21:27	CMR	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 21:27	CMR	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 21:27	CMR	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 21:27	CMR	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 21:27	CMR	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	4/3/24 21:27	CMR	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 21:27	CMR	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 21:27	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	4/3/24 21:27	CMR	
1,4-Dioxane	ND	1.0		ND	3.6	2	4/3/24 21:27	CMR	
Ethanol	9.3	4.0		18	7.5	2	4/3/24 21:27	CMR	
Ethyl Acetate	ND	1.0		ND	3.6	2	4/3/24 21:27	CMR	
Ethylbenzene	ND	0.10		ND	0.43	2	4/3/24 21:27	CMR	
4-Ethyltoluene	ND	0.10		ND	0.49	2	4/3/24 21:27	CMR	
Heptane	0.19	0.10		0.80	0.41	2	4/3/24 21:27	CMR	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	4/3/24 21:27	CMR	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

 Project Location:
 Date Received: 3/29/2024
Field Sample #: SV-1
Sample ID: 24D0152-11
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:30

 Sample Description/Location:
 Sub Description/Location:
 Canister ID: 20313
 Canister Size: 1 liter
 Flow Controller ID: 29546
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 0.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	4/3/24 21:27	CMR
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	4/3/24 21:27	CMR
Isopropanol	ND	4.0		ND	9.8	2	4/3/24 21:27	CMR
Methyl tert-Butyl Ether (MTBE)	0.10	0.10		0.37	0.36	2	4/3/24 21:27	CMR
Methylene Chloride	ND	1.0		ND	3.5	2	4/3/24 21:27	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	4/3/24 21:27	CMR
Naphthalene	ND	0.10		ND	0.52	2	4/3/24 21:27	CMR
Propene	ND	4.0		ND	6.9	2	4/3/24 21:27	CMR
Styrene	ND	0.10		ND	0.43	2	4/3/24 21:27	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/3/24 21:27	CMR
Tetrachloroethylene	ND	0.10		ND	0.68	2	4/3/24 21:27	CMR
Tetrahydrofuran	ND	1.0		ND	2.9	2	4/3/24 21:27	CMR
Toluene	0.45	0.10		1.7	0.38	2	4/3/24 21:27	CMR
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	4/3/24 21:27	CMR
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 21:27	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 21:27	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/3/24 21:27	CMR
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	4/3/24 21:27	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	4/3/24 21:27	CMR
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 21:27	CMR
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 21:27	CMR
Vinyl Acetate	ND	2.0		ND	7.0	2	4/3/24 21:27	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/3/24 21:27	CMR
m&p-Xylene	ND	0.20		ND	0.87	2	4/3/24 21:27	CMR
o-Xylene	ND	0.10		ND	0.43	2	4/3/24 21:27	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	86.2	70-130	4/3/24 21:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: SV-2
Sample ID: 24D0152-12
Sample Matrix: Sub Slab
Sampled: 3/27/2024 14:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 20304
Canister Size: 1 liter
Flow Controller ID: 9952
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 0.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	4.0	4.0		9.6	9.5	2	4/3/24 21:55	CMR
Benzene	0.18	0.10		0.59	0.32	2	4/3/24 21:55	CMR
Benzyl chloride	ND	0.10		ND	0.52	2	4/3/24 21:55	CMR
Bromodichloromethane	ND	0.10		ND	0.67	2	4/3/24 21:55	CMR
Bromoform	ND	0.10		ND	1.0	2	4/3/24 21:55	CMR
Bromomethane	ND	0.10		ND	0.39	2	4/3/24 21:55	CMR
1,3-Butadiene	ND	0.10		ND	0.22	2	4/3/24 21:55	CMR
2-Butanone (MEK)	ND	4.0		ND	12	2	4/3/24 21:55	CMR
Carbon Disulfide	ND	1.0		ND	3.1	2	4/3/24 21:55	CMR
Carbon Tetrachloride	ND	0.10		ND	0.63	2	4/3/24 21:55	CMR
Chlorobenzene	ND	0.10		ND	0.46	2	4/3/24 21:55	CMR
Chloroethane	ND	0.10		ND	0.26	2	4/3/24 21:55	CMR
Chloroform	ND	0.10		ND	0.49	2	4/3/24 21:55	CMR
Chloromethane	0.52	0.20		1.1	0.41	2	4/3/24 21:55	CMR
Cyclohexane	0.20	0.10		0.67	0.34	2	4/3/24 21:55	CMR
Dibromochloromethane	ND	0.10		ND	0.85	2	4/3/24 21:55	CMR
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	4/3/24 21:55	CMR
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 21:55	CMR
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 21:55	CMR
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	4/3/24 21:55	CMR
Dichlorodifluoromethane (Freon 12)	0.44	0.10		2.2	0.49	2	4/3/24 21:55	CMR
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 21:55	CMR
1,2-Dichloroethane	ND	0.10		ND	0.40	2	4/3/24 21:55	CMR
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 21:55	CMR
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 21:55	CMR
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/3/24 21:55	CMR
1,2-Dichloropropane	ND	0.10		ND	0.46	2	4/3/24 21:55	CMR
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 21:55	CMR
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/3/24 21:55	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	4/3/24 21:55	CMR
1,4-Dioxane	ND	1.0		ND	3.6	2	4/3/24 21:55	CMR
Ethanol	ND	4.0		ND	7.5	2	4/3/24 21:55	CMR
Ethyl Acetate	ND	1.0		ND	3.6	2	4/3/24 21:55	CMR
Ethylbenzene	ND	0.10		ND	0.43	2	4/3/24 21:55	CMR
4-Ethyltoluene	ND	0.10		ND	0.49	2	4/3/24 21:55	CMR
Heptane	0.29	0.10		1.2	0.41	2	4/3/24 21:55	CMR
Hexachlorobutadiene	ND	0.10		ND	1.1	2	4/3/24 21:55	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: SV-2
Sample ID: 24D0152-12
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 20304
 Canister Size: 1 liter
 Flow Controller ID: 9952
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): 0.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	4/3/24 21:55	CMR
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	4/3/24 21:55	CMR
Isopropanol	ND	4.0		ND	9.8	2	4/3/24 21:55	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	4/3/24 21:55	CMR
Methylene Chloride	ND	1.0		ND	3.5	2	4/3/24 21:55	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	4/3/24 21:55	CMR
Naphthalene	ND	0.10		ND	0.52	2	4/3/24 21:55	CMR
Propene	26	4.0		45	6.9	2	4/3/24 21:55	CMR
Styrene	ND	0.10		ND	0.43	2	4/3/24 21:55	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/3/24 21:55	CMR
Tetrachloroethylene	0.12	0.10		0.79	0.68	2	4/3/24 21:55	CMR
Tetrahydrofuran	ND	1.0		ND	2.9	2	4/3/24 21:55	CMR
Toluene	0.14	0.10		0.52	0.38	2	4/3/24 21:55	CMR
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	4/3/24 21:55	CMR
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 21:55	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/3/24 21:55	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/3/24 21:55	CMR
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	4/3/24 21:55	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	4/3/24 21:55	CMR
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 21:55	CMR
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	4/3/24 21:55	CMR
Vinyl Acetate	ND	2.0		ND	7.0	2	4/3/24 21:55	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/3/24 21:55	CMR
m&p-Xylene	ND	0.20		ND	0.87	2	4/3/24 21:55	CMR
o-Xylene	ND	0.10		ND	0.43	2	4/3/24 21:55	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	86.9	70-130	4/3/24 21:55

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

 Project Location:
 Date Received: 3/29/2024
Field Sample #: SV-3
Sample ID: 24D0152-13
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:30

 Sample Description/Location:
 Sub Description/Location:
 Canister ID: 20188
 Canister Size: 1 liter
 Flow Controller ID: 14108
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): 0.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: Z-01									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	59	4.0		140	9.5	2	4/4/24	9:02	CMR
Benzene	0.65	0.10		2.1	0.32	2	4/4/24	9:02	CMR
Benzyl chloride	ND	0.10		ND	0.52	2	4/4/24	9:02	CMR
Bromodichloromethane	ND	0.10		ND	0.67	2	4/4/24	9:02	CMR
Bromoform	ND	0.10		ND	1.0	2	4/4/24	9:02	CMR
Bromomethane	ND	0.10		ND	0.39	2	4/4/24	9:02	CMR
1,3-Butadiene	ND	0.10		ND	0.22	2	4/4/24	9:02	CMR
2-Butanone (MEK)	ND	4.0		ND	12	2	4/4/24	9:02	CMR
Carbon Disulfide	ND	1.0		ND	3.1	2	4/4/24	9:02	CMR
Carbon Tetrachloride	ND	0.10		ND	0.63	2	4/4/24	9:02	CMR
Chlorobenzene	ND	0.10		ND	0.46	2	4/4/24	9:02	CMR
Chloroethane	ND	0.10		ND	0.26	2	4/4/24	9:02	CMR
Chloroform	ND	0.10		ND	0.49	2	4/4/24	9:02	CMR
Chloromethane	0.81	0.20		1.7	0.41	2	4/4/24	9:02	CMR
Cyclohexane	0.37	0.10		1.3	0.34	2	4/4/24	9:02	CMR
Dibromochloromethane	ND	0.10		ND	0.85	2	4/4/24	9:02	CMR
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	4/4/24	9:02	CMR
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	4/4/24	9:02	CMR
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	4/4/24	9:02	CMR
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	4/4/24	9:02	CMR
Dichlorodifluoromethane (Freon 12)	0.52	0.10		2.6	0.49	2	4/4/24	9:02	CMR
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/4/24	9:02	CMR
1,2-Dichloroethane	ND	0.10		ND	0.40	2	4/4/24	9:02	CMR
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/4/24	9:02	CMR
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/4/24	9:02	CMR
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/4/24	9:02	CMR
1,2-Dichloropropane	ND	0.10		ND	0.46	2	4/4/24	9:02	CMR
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/4/24	9:02	CMR
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/4/24	9:02	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	4/4/24	9:02	CMR
1,4-Dioxane	ND	1.0		ND	3.6	2	4/4/24	9:02	CMR
Ethanol	15	4.0		29	7.5	2	4/4/24	9:02	CMR
Ethyl Acetate	ND	1.0		ND	3.6	2	4/4/24	9:02	CMR
Ethylbenzene	0.10	0.10		0.44	0.43	2	4/4/24	9:02	CMR
4-Ethyltoluene	ND	0.10		ND	0.49	2	4/4/24	9:02	CMR
Heptane	0.48	0.10		2.0	0.41	2	4/4/24	9:02	CMR
Hexachlorobutadiene	ND	0.10		ND	1.1	2	4/4/24	9:02	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/29/2024
Field Sample #: SV-3
Sample ID: 24D0152-13
 Sample Matrix: Sub Slab
 Sampled: 3/27/2024 14:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 20188
 Canister Size: 1 liter
 Flow Controller ID: 14108
 Sample Type: 24 hr

Work Order: 24D0152
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): 0.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: Z-01									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	4/4/24	9:02	CMR
2-Hexanone (MBK)	0.14	0.10		0.58	0.41	2	4/4/24	9:02	CMR
Isopropanol	ND	4.0		ND	9.8	2	4/4/24	9:02	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	4/4/24	9:02	CMR
Methylene Chloride	ND	1.0		ND	3.5	2	4/4/24	9:02	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	4/4/24	9:02	CMR
Naphthalene	ND	0.10		ND	0.52	2	4/4/24	9:02	CMR
Propene	5.4	4.0		9.2	6.9	2	4/4/24	9:02	CMR
Styrene	ND	0.10		ND	0.43	2	4/4/24	9:02	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/4/24	9:02	CMR
Tetrachloroethylene	ND	0.10		ND	0.68	2	4/4/24	9:02	CMR
Tetrahydrofuran	ND	1.0		ND	2.9	2	4/4/24	9:02	CMR
Toluene	1.2	0.10		4.4	0.38	2	4/4/24	9:02	CMR
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	4/4/24	9:02	CMR
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/4/24	9:02	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/4/24	9:02	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/4/24	9:02	CMR
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	4/4/24	9:02	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	4/4/24	9:02	CMR
1,2,4-Trimethylbenzene	0.13	0.10		0.66	0.49	2	4/4/24	9:02	CMR
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	4/4/24	9:02	CMR
Vinyl Acetate	ND	2.0		ND	7.0	2	4/4/24	9:02	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/4/24	9:02	CMR
m&p-Xylene	0.33	0.20		1.4	0.87	2	4/4/24	9:02	CMR
o-Xylene	0.13	0.10		0.57	0.43	2	4/4/24	9:02	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.6	70-130	4/4/24 9:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: OA-1
Sample ID: 24D0152-14
Sample Matrix: Ambient Air
Sampled: 3/27/2024 14:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 20221
Canister Size: 1 liter
Flow Controller ID: 9685
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 1.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	3.3	1.4		7.7	3.3	0.698	4/3/24 18:11	CMR
Benzene	0.16	0.035		0.51	0.11	0.698	4/3/24 18:11	CMR
Benzyl chloride	ND	0.035		ND	0.18	0.698	4/3/24 18:11	CMR
Bromodichloromethane	ND	0.035		ND	0.23	0.698	4/3/24 18:11	CMR
Bromoform	ND	0.035		ND	0.36	0.698	4/3/24 18:11	CMR
Bromomethane	ND	0.035		ND	0.14	0.698	4/3/24 18:11	CMR
1,3-Butadiene	ND	0.035		ND	0.077	0.698	4/3/24 18:11	CMR
2-Butanone (MEK)	ND	1.4		ND	4.1	0.698	4/3/24 18:11	CMR
Carbon Disulfide	ND	0.35		ND	1.1	0.698	4/3/24 18:11	CMR
Carbon Tetrachloride	0.069	0.035		0.43	0.22	0.698	4/3/24 18:11	CMR
Chlorobenzene	ND	0.035		ND	0.16	0.698	4/3/24 18:11	CMR
Chloroethane	ND	0.035		ND	0.092	0.698	4/3/24 18:11	CMR
Chloroform	ND	0.035		ND	0.17	0.698	4/3/24 18:11	CMR
Chloromethane	0.51	0.070		1.1	0.14	0.698	4/3/24 18:11	CMR
Cyclohexane	ND	0.035		ND	0.12	0.698	4/3/24 18:11	CMR
Dibromochloromethane	ND	0.035		ND	0.30	0.698	4/3/24 18:11	CMR
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.698	4/3/24 18:11	CMR
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 18:11	CMR
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 18:11	CMR
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.698	4/3/24 18:11	CMR
Dichlorodifluoromethane (Freon 12)	0.46	0.035		2.3	0.17	0.698	4/3/24 18:11	CMR
1,1-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 18:11	CMR
1,2-Dichloroethane	ND	0.035		ND	0.14	0.698	4/3/24 18:11	CMR
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 18:11	CMR
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 18:11	CMR
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	4/3/24 18:11	CMR
1,2-Dichloropropane	ND	0.035		ND	0.16	0.698	4/3/24 18:11	CMR
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 18:11	CMR
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	4/3/24 18:11	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.24	0.698	4/3/24 18:11	CMR
1,4-Dioxane	ND	0.35		ND	1.3	0.698	4/3/24 18:11	CMR
Ethanol	6.8	1.4		13	2.6	0.698	4/3/24 18:11	CMR
Ethyl Acetate	ND	0.35		ND	1.3	0.698	4/3/24 18:11	CMR
Ethylbenzene	0.037	0.035		0.16	0.15	0.698	4/3/24 18:11	CMR
4-Ethyltoluene	ND	0.035		ND	0.17	0.698	4/3/24 18:11	CMR
Heptane	0.077	0.035		0.32	0.14	0.698	4/3/24 18:11	CMR
Hexachlorobutadiene	ND	0.035		ND	0.37	0.698	4/3/24 18:11	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location:
Date Received: 3/29/2024
Field Sample #: OA-1
Sample ID: 24D0152-14
Sample Matrix: Ambient Air
Sampled: 3/27/2024 14:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 20221
Canister Size: 1 liter
Flow Controller ID: 9685
Sample Type: 24 hr

Work Order: 24D0152
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 1.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: Z-01								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.698	4/3/24 18:11	CMR
2-Hexanone (MBK)	0.042	0.035		0.17	0.14	0.698	4/3/24 18:11	CMR
Isopropanol	1.4	1.4		3.5	3.4	0.698	4/3/24 18:11	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.698	4/3/24 18:11	CMR
Methylene Chloride	ND	0.35		ND	1.2	0.698	4/3/24 18:11	CMR
4-Methyl-2-pentanone (MIBK)	0.13	0.035		0.55	0.14	0.698	4/3/24 18:11	CMR
Naphthalene	ND	0.035		ND	0.18	0.698	4/3/24 18:11	CMR
Propene	ND	1.4		ND	2.4	0.698	4/3/24 18:11	CMR
Styrene	ND	0.035		ND	0.15	0.698	4/3/24 18:11	CMR
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.698	4/3/24 18:11	CMR
Tetrachloroethylene	ND	0.035		ND	0.24	0.698	4/3/24 18:11	CMR
Tetrahydrofuran	ND	0.35		ND	1.0	0.698	4/3/24 18:11	CMR
Toluene	0.24	0.035		0.92	0.13	0.698	4/3/24 18:11	CMR
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.698	4/3/24 18:11	CMR
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.698	4/3/24 18:11	CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.698	4/3/24 18:11	CMR
Trichloroethylene	ND	0.035		ND	0.19	0.698	4/3/24 18:11	CMR
Trichlorofluoromethane (Freon 11)	0.20	0.14		1.1	0.78	0.698	4/3/24 18:11	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14		ND	1.1	0.698	4/3/24 18:11	CMR
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.698	4/3/24 18:11	CMR
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.698	4/3/24 18:11	CMR
Vinyl Acetate	ND	0.70		ND	2.5	0.698	4/3/24 18:11	CMR
Vinyl Chloride	ND	0.035		ND	0.089	0.698	4/3/24 18:11	CMR
m&p-Xylene	0.091	0.070		0.39	0.30	0.698	4/3/24 18:11	CMR
o-Xylene	0.050	0.035		0.22	0.15	0.698	4/3/24 18:11	CMR

Surrogates	% Recovery	% REC Limits
4-Bromofluorobenzene (1)	90.2	70-130

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method:TO-15 Prep Analytical Method:EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
24D0152-01 [SS-1]	B370894	1.5	1	N/A	1000	200	150	04/03/24
24D0152-02 [IA-1]	B370894	1.5	1	N/A	1000	200	430	04/03/24
24D0152-03 [SS-2]	B370894	2	1	N/A	1000	200	150	04/03/24
24D0152-04 [IA-2]	B370894	1.5	1	N/A	1000	200	430	04/03/24
24D0152-05 [SS-3]	B370894	1.5	1	N/A	1000	200	150	04/03/24
24D0152-06 [IA-3]	B370894	1.5	1	N/A	1000	200	430	04/03/24
24D0152-07 [SS-4]	B370894	1.5	1	N/A	1000	200	150	04/03/24
24D0152-08 [IA-4]	B370894	1.5	1	N/A	1000	200	430	04/03/24
24D0152-09 [SS-5]	B370894	1.5	1	N/A	1000	200	150	04/03/24
24D0152-09RE1 [SS-5]	B370894	1.5	1	N/A	1000	200	75	04/03/24
24D0152-10 [IA-5]	B370894	1.5	1	N/A	1000	200	430	04/03/24
24D0152-11 [SV-1]	B370894	1.5	1	N/A	1000	200	150	04/03/24
24D0152-12 [SV-2]	B370894	1.5	1	N/A	1000	200	150	04/03/24
24D0152-13 [SV-3]	B370894	1.5	1	N/A	1000	200	150	04/03/24
24D0152-14 [OA-1]	B370894	1.5	1	N/A	1000	200	430	04/03/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits	RPD	
Batch B370894 - TO-15 Prep										
Blank (B370894-BLK1)					Prepared & Analyzed: 04/03/24					
Acetone	ND	1.4								
Benzene	ND	0.034								
Benzyl chloride	ND	0.034								
Bromodichloromethane	ND	0.034								
Bromoform	ND	0.034								
Bromomethane	ND	0.034								
1,3-Butadiene	ND	0.034								
2-Butanone (MEK)	ND	1.4								
Carbon Disulfide	ND	0.34								
Carbon Tetrachloride	ND	0.034								
Chlorobenzene	ND	0.034								
Chloroethane	ND	0.034								
Chloroform	ND	0.034								
Chloromethane	ND	0.069								
Cyclohexane	ND	0.034								
Dibromochloromethane	ND	0.034								
1,2-Dibromoethane (EDB)	ND	0.034								
1,2-Dichlorobenzene	ND	0.034								
1,3-Dichlorobenzene	ND	0.034								
1,4-Dichlorobenzene	ND	0.034								
Dichlorodifluoromethane (Freon 12)	ND	0.034								
1,1-Dichloroethane	ND	0.034								
1,2-Dichloroethane	ND	0.034								
1,1-Dichloroethylene	ND	0.034								
cis-1,2-Dichloroethylene	ND	0.034								
trans-1,2-Dichloroethylene	ND	0.034								
1,2-Dichloropropane	ND	0.034								
cis-1,3-Dichloropropene	ND	0.034								
trans-1,3-Dichloropropene	ND	0.034								
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.034								
1,4-Dioxane	ND	0.34								
Ethanol	ND	1.4								
Ethyl Acetate	ND	0.34								
Ethylbenzene	ND	0.034								
4-Ethyltoluene	ND	0.034								
Heptane	ND	0.034								
Hexachlorobutadiene	ND	0.034								
Hexane	ND	1.4								
2-Hexanone (MBK)	ND	0.034								
Isopropanol	ND	1.4								
Methyl tert-Butyl Ether (MTBE)	ND	0.034								
Methylene Chloride	ND	0.34								
4-Methyl-2-pentanone (MIBK)	ND	0.034								
Naphthalene	ND	0.034								
Propene	ND	1.4								
Styrene	ND	0.034								

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B370894 - TO-15 Prep
Blank (B370894-BLK1)

Prepared & Analyzed: 04/03/24

1,1,2,2-Tetrachloroethane	ND	0.034
Tetrachloroethylene	ND	0.034
Tetrahydrofuran	ND	0.34
Toluene	ND	0.034
1,2,4-Trichlorobenzene	ND	0.034
1,1,1-Trichloroethane	ND	0.034
1,1,2-Trichloroethane	ND	0.034
Trichloroethylene	ND	0.034
Trichlorofluoromethane (Freon 11)	ND	0.14
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14
1,2,4-Trimethylbenzene	ND	0.034
1,3,5-Trimethylbenzene	ND	0.034
Vinyl Acetate	ND	0.69
Vinyl Chloride	ND	0.034
m&p-Xylene	ND	0.069
o-Xylene	ND	0.034

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.05</i>	<i>8.00</i>	<i>88.1</i>	<i>70-130</i>
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LCS (B370894-BS1)

Prepared & Analyzed: 04/03/24

Acetone	3.97	5.00	79.3	70-130
Benzene	5.00	5.00	100	70-130
Benzyl chloride	4.49	5.00	89.9	70-130
Bromodichloromethane	4.75	5.00	95.1	70-130
Bromoform	5.14	5.00	103	70-130
Bromomethane	5.22	5.00	104	70-130
1,3-Butadiene	4.70	5.00	94.0	70-130
2-Butanone (MEK)	4.48	5.00	89.6	70-130
Carbon Disulfide	5.27	5.00	105	70-130
Carbon Tetrachloride	4.63	5.00	92.6	70-130
Chlorobenzene	5.26	5.00	105	70-130
Chloroethane	4.78	5.00	95.5	70-130
Chloroform	5.24	5.00	105	70-130
Chloromethane	4.83	5.00	96.6	70-130
Cyclohexane	4.63	5.00	92.7	70-130
Dibromochloromethane	5.17	5.00	103	70-130
1,2-Dibromoethane (EDB)	5.28	5.00	106	70-130
1,2-Dichlorobenzene	5.15	5.00	103	70-130
1,3-Dichlorobenzene	5.84	5.00	117	70-130
1,4-Dichlorobenzene	5.83	5.00	117	70-130
Dichlorodifluoromethane (Freon 12)	5.07	5.00	101	70-130
1,1-Dichloroethane	4.53	5.00	90.6	70-130
1,2-Dichloroethane	4.38	5.00	87.6	70-130
1,1-Dichloroethylene	4.88	5.00	97.7	70-130
cis-1,2-Dichloroethylene	4.97	5.00	99.4	70-130
trans-1,2-Dichloroethylene	4.44	5.00	88.8	70-130
1,2-Dichloropropane	5.44	5.00	109	70-130

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits			
Batch B370894 - TO-15 Prep											
LCS (B370894-BS1)					Prepared & Analyzed: 04/03/24						
cis-1,3-Dichloropropene	5.24				5.00		105	70-130			
trans-1,3-Dichloropropene	4.77				5.00		95.3	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.90				5.00		98.0	70-130			
1,4-Dioxane	6.38				5.00		128	70-130			
Ethanol	5.40				5.00		108	70-130			
Ethyl Acetate	4.27				5.00		85.3	70-130			
Ethylbenzene	5.16				5.00		103	70-130			
4-Ethyltoluene	5.09				5.00		102	70-130			
Heptane	4.84				5.00		96.9	70-130			
Hexachlorobutadiene	4.39				5.00		87.9	70-130			
Hexane	3.98				5.00		79.6	70-130			
2-Hexanone (MBK)	5.62				5.00		112	70-130			
Isopropanol	4.66				5.00		93.3	70-130			
Methyl tert-Butyl Ether (MTBE)	4.37				5.00		87.4	70-130			
Methylene Chloride	4.35				5.00		87.0	70-130			
4-Methyl-2-pentanone (MIBK)	5.47				5.00		109	70-130			
Naphthalene	5.49				5.00		110	70-130			
Propene	5.54				5.00		111	70-130			
Styrene	5.21				5.00		104	70-130			
1,1,2,2-Tetrachloroethane	5.98				5.00		120	70-130			
Tetrachloroethylene	4.96				5.00		99.1	70-130			
Tetrahydrofuran	4.16				5.00		83.3	70-130			
Toluene	5.29				5.00		106	70-130			
1,2,4-Trichlorobenzene	4.46				5.00		89.2	70-130			
1,1,1-Trichloroethane	4.42				5.00		88.4	70-130			
1,1,2-Trichloroethane	5.75				5.00		115	70-130			
Trichloroethylene	4.81				5.00		96.2	70-130			
Trichlorofluoromethane (Freon 11)	4.74				5.00		94.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.02				5.00		100	70-130			
1,2,4-Trimethylbenzene	5.10				5.00		102	70-130			
1,3,5-Trimethylbenzene	5.22				5.00		104	70-130			
Vinyl Acetate	4.57				5.00		91.4	70-130			
Vinyl Chloride	5.12				5.00		102	70-130			
m&p-Xylene	10.7				10.0		107	70-130			
o-Xylene	5.28				5.00		106	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.77				8.00		97.1	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits	RPD	Limit	
Batch B370894 - TO-15 Prep											
Duplicate (B370894-DUP1)		Source: 24D0152-01				Prepared & Analyzed: 04/03/24					
Acetone	9.3	4.0	22	9.5		9.2			0.346	25	
Benzene	0.52	0.10	1.6	0.32		0.56			8.89	25	
Benzyl chloride	ND	0.10	ND	0.52		ND				25	
Bromodichloromethane	ND	0.10	ND	0.67		ND				25	
Bromoform	ND	0.10	ND	1.0		ND				25	
Bromomethane	ND	0.10	ND	0.39		ND				25	
1,3-Butadiene	ND	0.10	ND	0.22		ND				25	
2-Butanone (MEK)	ND	4.0	ND	12		ND				25	
Carbon Disulfide	6.4	1.0	20	3.1		6.5			2.36	25	
Carbon Tetrachloride	ND	0.10	ND	0.63		ND				25	
Chlorobenzene	ND	0.10	ND	0.46		ND				25	
Chloroethane	ND	0.10	ND	0.26		ND				25	
Chloroform	0.30	0.10	1.4	0.49		0.34			13.2	25	
Chloromethane	0.19	0.20	0.39	0.41		0.22			17.5	25	
Cyclohexane	1.3	0.10	4.4	0.34		1.4			6.19	25	
Dibromochloromethane	ND	0.10	ND	0.85		ND				25	
1,2-Dibromoethane (EDB)	ND	0.10	ND	0.77		ND				25	
1,2-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,3-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,4-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
Dichlorodifluoromethane (Freon 12)	11	0.10	53	0.49		11			1.18	25	
1,1-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,2-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,1-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
cis-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
trans-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
1,2-Dichloropropane	ND	0.10	ND	0.46		ND				25	
cis-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
trans-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	ND	0.70		ND				25	
1,4-Dioxane	ND	1.0	ND	3.6		ND				25	
Ethanol	8.4	4.0	16	7.5		7.9			5.47	25	
Ethyl Acetate	ND	1.0	ND	3.6		ND				25	
Ethylbenzene	0.092	0.10	0.40	0.43		0.11			17.8	25	
4-Ethyltoluene	ND	0.10	ND	0.49		ND				25	
Heptane	0.84	0.10	3.5	0.41		1.1			22.6	25	
Hexachlorobutadiene	ND	0.10	ND	1.1		ND				25	
Hexane	ND	4.0	ND	14		ND				25	
2-Hexanone (MBK)	0.092	0.10	0.38	0.41		0.080			14.0	25	
Isopropanol	ND	4.0	ND	9.8		ND				25	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	ND	0.36		ND				25	
Methylene Chloride	ND	1.0	ND	3.5		ND				25	
4-Methyl-2-pentanone (MIBK)	ND	0.10	ND	0.41		ND				25	
Naphthalene	ND	0.10	ND	0.52		ND				25	
Propene	ND	4.0	ND	6.9		ND				25	
Styrene	ND	0.10	ND	0.43		ND				25	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits		Limit	
Batch B370894 - TO-15 Prep											
Duplicate (B370894-DUP1)	Source: 24D0152-01				Prepared & Analyzed: 04/03/24						
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	
Tetrachloroethylene	0.12	0.10	0.83	0.68		0.092			28.0	25	R-04
Tetrahydrofuran	ND	1.0	ND	2.9		ND				25	
Toluene	0.70	0.10	2.6	0.38		0.67			4.08	25	
1,2,4-Trichlorobenzene	ND	0.10	ND	0.74		ND				25	
1,1,1-Trichloroethane	ND	0.10	ND	0.55		ND				25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Trichloroethylene	ND	0.10	ND	0.54		ND				25	
Trichlorofluoromethane (Freon 11)	0.20	0.40	1.1	2.2		0.22			8.53	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.40	0.46	3.1		0.068			12.5	25	
1,2,4-Trimethylbenzene	0.13	0.10	0.64	0.49		0.14			4.51	25	
1,3,5-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
Vinyl Acetate	1.8	2.0	6.2	7.0		1.8			1.02	25	
Vinyl Chloride	ND	0.10	ND	0.26		ND				25	
m&p-Xylene	0.29	0.20	1.3	0.87		0.29			1.38	25	
o-Xylene	0.096	0.10	0.42	0.43		0.088			8.70	25	
Surrogate: 4-Bromofluorobenzene (1)	6.98				8.00		87.3	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-04	Duplicate relative percent difference (RPD) is outside of control limits. RPD is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
Z-01	Sample had a final vacuum of zero.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S091464-ICV1)			Lab File ID: L23A214020.D			Analyzed: 08/02/23 23:42			
Bromochloromethane (1)	300782	2.867	314027	2.871	96	60 - 140	-0.0040	+/-0.50	
1,4-Difluorobenzene (1)	878479	3.54	895773	3.54	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	823159	5.202	837397	5.202	98	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S102874-CCV1)			Lab File ID: L24A094003.D			Analyzed: 04/03/24 09:38			
Bromochloromethane (1)	246585	2.864				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	725889	3.538				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	643806	5.196				60 - 140		+/-0.50	
LCS (B370894-BS1)			Lab File ID: L24A094004.D			Analyzed: 04/03/24 10:04			
Bromochloromethane (1)	242382	2.864	246585	2.864	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	735685	3.538	725889	3.538	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	639513	5.195	643806	5.196	99	60 - 140	-0.0010	+/-0.50	
Blank (B370894-BLK1)			Lab File ID: L24A094007.D			Analyzed: 04/03/24 11:28			
Bromochloromethane (1)	240141	2.869	246585	2.864	97	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	662152	3.537	725889	3.538	91	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	598827	5.193	643806	5.196	93	60 - 140	-0.0030	+/-0.50	
IA-1 (24D0152-02)			Lab File ID: L24A094012.D			Analyzed: 04/03/24 15:27			
Bromochloromethane (1)	252172	2.864	246585	2.864	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	745702	3.538	725889	3.538	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	654239	5.196	643806	5.196	102	60 - 140	0.0000	+/-0.50	
IA-2 (24D0152-04)			Lab File ID: L24A094013.D			Analyzed: 04/03/24 15:59			
Bromochloromethane (1)	246193	2.864	246585	2.864	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	738437	3.538	725889	3.538	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	626423	5.196	643806	5.196	97	60 - 140	0.0000	+/-0.50	
IA-3 (24D0152-06)			Lab File ID: L24A094014.D			Analyzed: 04/03/24 16:32			
Bromochloromethane (1)	249757	2.864	246585	2.864	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	733939	3.538	725889	3.538	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	660874	5.196	643806	5.196	103	60 - 140	0.0000	+/-0.50	
IA-4 (24D0152-08)			Lab File ID: L24A094015.D			Analyzed: 04/03/24 17:05			
Bromochloromethane (1)	250649	2.864	246585	2.864	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	736862	3.538	725889	3.538	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	645550	5.196	643806	5.196	100	60 - 140	0.0000	+/-0.50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
IA-5 (24D0152-10) Lab File ID: L24A094016.D Analyzed: 04/03/24 17:38									
Bromochloromethane (1)	248885	2.864	246585	2.864	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	747275	3.538	725889	3.538	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	659064	5.196	643806	5.196	102	60 - 140	0.0000	+/-0.50	
OA-1 (24D0152-14) Lab File ID: L24A094017.D Analyzed: 04/03/24 18:11									
Bromochloromethane (1)	249469	2.869	246585	2.864	101	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	686538	3.537	725889	3.538	95	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	629550	5.195	643806	5.196	98	60 - 140	-0.0010	+/-0.50	
SS-1 (24D0152-01) Lab File ID: L24A094018.D Analyzed: 04/03/24 18:39									
Bromochloromethane (1)	247682	2.864	246585	2.864	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	689100	3.538	725889	3.538	95	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	649115	5.195	643806	5.196	101	60 - 140	-0.0010	+/-0.50	
Duplicate (B370894-DUP1) Lab File ID: L24A094019.D Analyzed: 04/03/24 19:07									
Bromochloromethane (1)	246156	2.864	246585	2.864	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	697236	3.538	725889	3.538	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	636577	5.195	643806	5.196	99	60 - 140	-0.0010	+/-0.50	
SS-2 (24D0152-03) Lab File ID: L24A094020.D Analyzed: 04/03/24 19:36									
Bromochloromethane (1)	235206	2.869	246585	2.864	95	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	657023	3.538	725889	3.538	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	599029	5.195	643806	5.196	93	60 - 140	-0.0010	+/-0.50	
SS-3 (24D0152-05) Lab File ID: L24A094021.D Analyzed: 04/03/24 20:03									
Bromochloromethane (1)	241820	2.864	246585	2.864	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	705211	3.538	725889	3.538	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	631941	5.196	643806	5.196	98	60 - 140	0.0000	+/-0.50	
SS-4 (24D0152-07) Lab File ID: L24A094022.D Analyzed: 04/03/24 20:31									
Bromochloromethane (1)	248194	2.864	246585	2.864	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	716868	3.538	725889	3.538	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	636276	5.195	643806	5.196	99	60 - 140	-0.0010	+/-0.50	
SS-5 (24D0152-09) Lab File ID: L24A094023.D Analyzed: 04/03/24 21:00									
Bromochloromethane (1)	246024	2.869	246585	2.864	100	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	736641	3.538	725889	3.538	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	646462	5.196	643806	5.196	100	60 - 140	0.0000	+/-0.50	
SV-1 (24D0152-11) Lab File ID: L24A094024.D Analyzed: 04/03/24 21:27									
Bromochloromethane (1)	239206	2.869	246585	2.864	97	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	710539	3.537	725889	3.538	98	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	622405	5.194	643806	5.196	97	60 - 140	-0.0020	+/-0.50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SV-2 (24D0152-12) Lab File ID: L24A094025.D Analyzed: 04/03/24 21:55									
Bromochloromethane (1)	252354	2.869	246585	2.864	102	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	689120	3.537	725889	3.538	95	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	620551	5.194	643806	5.196	96	60 - 140	-0.0020	+/-0.50	
SS-5 (24D0152-09RE1) Lab File ID: L24A094044.D Analyzed: 04/04/24 08:30									
Bromochloromethane (1)	239146	2.869	246585	2.864	97	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	683081	3.538	725889	3.538	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	605582	5.196	643806	5.196	94	60 - 140	0.0000	+/-0.50	
SV-3 (24D0152-13) Lab File ID: L24A094045.D Analyzed: 04/04/24 09:02									
Bromochloromethane (1)	230614	2.869	246585	2.864	94	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	676470	3.538	725889	3.538	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	578312	5.195	643806	5.196	90	60 - 140	-0.0010	+/-0.50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CONTINUING CALIBRATION CHECK

EPA TO-15

S102874-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	3.82	1.122255	0.8575639		-23.6	30
Benzene	A	5.00	5.38	0.7254293	0.7802515		7.6	30
Benzyl chloride	A	5.00	4.37	0.65192	0.5699381		-12.6	30
Bromodichloromethane	A	5.00	5.07	0.5567047	0.5646505		1.4	30
Bromoform	A	5.00	5.33	0.4926101	0.5255123		6.7	30
Bromomethane	A	5.00	5.27	0.6308676	0.6645076		5.3	30
1,3-Butadiene	A	5.00	4.92	0.551149	0.5424564		-1.6	30
2-Butanone (MEK)	A	5.00	4.15	1.381604	1.145951		-17.1	30
Carbon Disulfide	A	5.00	5.26	2.063757	2.168833		5.1	30
Carbon Tetrachloride	A	5.00	4.93	0.5110368	0.5043019		-1.3	30
Chlorobenzene	A	5.00	5.37	0.7219812	0.7754783		7.4	30
Chloroethane	A	5.00	4.59	0.411751	0.3781901		-8.2	30
Chloroform	A	5.00	5.27	1.439332	1.517666		5.4	30
Chloromethane	A	5.00	4.78	0.6101459	0.5836073		-4.3	30
Cyclohexane	A	5.00	4.77	0.3030286	0.2889257		-4.7	30
Dibromochloromethane	A	5.00	5.43	0.5644122	0.6129623		8.6	30
1,2-Dibromoethane (EDB)	A	5.00	5.35	0.5076449	0.5432643		7.0	30
1,2-Dichlorobenzene	A	5.00	4.99	0.6234765	0.6217923		-0.3	30
1,3-Dichlorobenzene	A	5.00	5.61	0.6267236	0.7034044		12.2	30
1,4-Dichlorobenzene	A	5.00	5.58	0.5801365	0.6479169		11.7	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.09	1.768079	1.800616		1.8	30
1,1-Dichloroethane	A	5.00	4.56	1.392824	1.271532		-8.7	30
1,2-Dichloroethane	A	5.00	4.40	0.9772927	0.8601529		-12.0	30
1,1-Dichloroethylene	A	5.00	4.97	1.127187	1.120808		-0.6	30
cis-1,2-Dichloroethylene	A	5.00	5.05	0.908952	0.9178952		1.0	30
trans-1,2-Dichloroethylene	A	5.00	4.38	1.128232	0.9890237		-12.3	30
1,2-Dichloropropane	A	5.00	5.51	0.2601948	0.2865716		10.1	30
cis-1,3-Dichloropropene	A	5.00	5.66	0.3962271	0.4484256		13.2	30
trans-1,3-Dichloropropene	A	5.00	4.53	0.3522842	0.319218		-9.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.28	1.784687	1.883527		5.5	30
1,4-Dioxane	A	5.00	4.87	0.1742852	0.1696149		-2.7	30
Ethanol	A	5.00	4.43	0.1732414	0.1535211		-11.4	30
Ethyl Acetate	A	5.00	4.16	0.2390169	0.1989221		-16.8	30
Ethylbenzene	A	5.00	5.33	1.176902	1.255479		6.7	30
4-Ethyltoluene	A	5.00	4.91	1.247069	1.224779		-1.8	30
Heptane	A	5.00	4.95	0.2286847	0.2262473		-1.1	30
Hexachlorobutadiene	A	5.00	4.06	0.4755616	0.3861859		-18.8	30
Hexane	A	5.00	3.93	0.7442178	0.5852489		-21.4	30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CONTINUING CALIBRATION CHECK

EPA TO-15

S102874-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.76	0.5993899	0.5701469		-4.9	30
Isopropanol	A	5.00	4.24	1.180699	1.002209		-15.1	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.28	2.130891	1.824643		-14.4	30
Methylene Chloride	A	5.00	4.49	0.8716214	0.7819648		-10.3	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.08	0.2414371	0.2452673		1.6	30
Naphthalene	A	5.00	3.68	0.954618	0.7035834		-26.3	30
Propene	A	5.00	5.49	0.4075236	0.4474043		9.8	30
Styrene	A	5.00	5.22	0.6680173	0.6980811		4.5	30
1,1,2,2-Tetrachloroethane	A	5.00	6.06	0.6838293	0.8293008		21.3	30
Tetrachloroethylene	A	5.00	5.26	0.4174566	0.4387931		5.1	30
Tetrahydrofuran	A	5.00	3.58	0.9111963	0.6521143		-28.4	30
Toluene	A	5.00	5.21	0.9385805	0.9773155		4.1	30
1,2,4-Trichlorobenzene	A	5.00	3.54	0.3693275	0.2614726		-29.2	30
1,1,1-Trichloroethane	A	5.00	4.77	0.5075792	0.4845898		-4.5	30
1,1,2-Trichloroethane	A	5.00	5.93	0.309655	0.3673181		18.6	30
Trichloroethylene	A	5.00	5.02	0.3356598	0.3366884		0.3	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.75	1.816743	1.724673		-5.1	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.14	1.436582	1.47595		2.7	30
1,2,4-Trimethylbenzene	A	5.00	5.07	1.021302	1.036006		1.4	30
1,3,5-Trimethylbenzene	A	5.00	5.27	1.055296	1.112892		5.5	30
Vinyl Acetate	A	5.00	5.09	1.463541	1.490362		1.8	30
Vinyl Chloride	A	5.00	5.19	0.7105757	0.7374852		3.8	30
m&p-Xylene	A	10.0	10.8	0.9711506	1.046075		7.7	30
o-Xylene	A	5.00	5.33	0.9550518	1.018269		6.6	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	NY,ME,NH
Benzene	FL,NJ,NY,ME,NH,VA
Benzyl chloride	FL,NJ,NY,ME,NH,VA
Bromodichloromethane	NJ,NY,ME,NH,VA
Bromoform	NJ,NY,ME,NH,VA
Bromomethane	FL,NJ,NY,ME,NH
1,3-Butadiene	NJ,NY,ME,NH,VA
2-Butanone (MEK)	FL,NJ,NY,ME,NH,VA
Carbon Disulfide	NJ,NY,ME,NH,VA
Carbon Tetrachloride	FL,NJ,NY,ME,NH,VA
Chlorobenzene	FL,NJ,NY,ME,NH,VA
Chloroethane	FL,NJ,NY,ME,NH,VA
Chloroform	FL,NJ,NY,ME,NH,VA
Chloromethane	FL,NJ,NY,ME,NH,VA
Cyclohexane	NJ,NY,ME,NH,VA
Dibromochloromethane	NY,ME,NH
1,2-Dibromoethane (EDB)	NJ,NY,ME,NH
1,2-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	NJ,NY,ME,NH
1,4-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH
1,1-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	NJ,NY,ME,NH,VA
1,2-Dichloropropane	FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	NJ,NY,ME,NH,VA
1,4-Dioxane	NJ,NY,ME,NH,VA
Ethylbenzene	FL,NJ,NY,ME,NH,VA
Heptane	NJ,NY,ME,NH,VA
Hexachlorobutadiene	NJ,NY,ME,NH,VA
Hexane	FL,NJ,NY,ME,NH,VA
Isopropanol	NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	FL,NJ,NY,ME,NH,VA
Methylene Chloride	FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Styrene	FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	FL,NJ,NY,ME,NH,VA
Tetrachloroethylene	FL,NJ,NY,ME,NH,VA
Toluene	FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	FL,NJ,NY,ME,NH,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Trichloroethylene	FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	NJ,NY,ME,NH
1,3,5-Trimethylbenzene	NJ,NY,ME,NH
Vinyl Acetate	FL,NJ,NY,ME,NH,VA
Vinyl Chloride	FL,NJ,NY,ME,NH,VA
m&p-Xylene	FL,NJ,NY,ME,NH,VA
o-Xylene	FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
FL	Florida Department of Health	E871027 NELAP	06/30/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024

24DU0152

Pace® Location Requested (City/State):		Air CHAIN-OF-CUSTODY Analytical Request Document		LAB USE ONLY- Affix Workorder/Login Label Here										
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields				Scan QR code for instructions										
Company Name: Pace Analytical - New England Street Address: 39 Spruce St East Longmeadow, MA 01028 City, State Zip: Customer Project #: Project Name:		Contact/Report To: Karriem Marius Phone #: 413-525-2332 E-Mail: karriem.marius@pacelabs.com; Raymond.mccarthy@pacelabs.com; Kvie.Stuckev@pacelabs.com; Kvie.Mur Cc E-Mail: Invoice to: Invoice E-Mail: Purchase Order # (if applicable): Quote #: State origin of sample(s):												
Site Collection Info/Facility ID (as applicable): PACEELMA-MARIUS Time Zone Collected: [] AK [] PT [] MT [] CT [] ET		Regulatory Program (CAA, RCRA, etc.) as applicable: Rush (Pre-approval required): 2 Day 3 day 5 day Other _____ Date Results Requested:		Field Information Canister Pressure / Vacuum PUF / FILTER Flow Rate Total Volume TO-15 Summa Analyses Requested: AN 3/21/24 Proj. Manager: 3976 - Naomi M Sackett AcctNum / Client ID: PACEELMA Table #: Profile / Template: T249572 Prelog / Bottle Ord. ID: P1064336										
Data Deliverables: [] Level II [] Level III [] Level IV [] EQUIS [] Other _____		Permit # as applicable: Units for Reporting: ug/m³ PPBV mg/m³ PPMV		Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)										
Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m³/min or L/min)	Total Volume Sampled (m³ or L)	TO-15 Summa	Sample Comment
01 SS-1		13689	007893	3/26	1410	3/27	1410	-28	0				X	+1.0
02 IA-1		24588	029553	3/26	1410	3/27	1410	-29	0				X	+0.8
03 SS-2		21170	14269	3/26	1400	3/28	1400	-28	-15				X	-13.1
04 IA-2		9897	22052	3/26	1400	3/27	1400	-28	0				X	+1.0
05 SS-3		23595	10007	3/26	1430	3/27	1430	-29	0				X	+1.0
06 IA-3		24730	14236	3/26	1430	3/27	1430	-29	0					+1.0
07 SS-4		24020	29504	3/26	1415	3/27	1415	-30	0					+1.0
08 IA-4		14016	15679	3/26	1415	3/27	1415	-28	0					+1.1
09 SS-5		10439	29469	3/26	1420	3/27	1420	-29	0					+0.7
10 IA-5		21443	29542	3/26	1420	3/27	1420	-29	0					+1.1
Customer Remarks / Special Conditions / Possible Hazards: Client- BE3. Analyze all samples. WAS 4/2/24				Collected By: Printed Name: Signature:				Additional Instructions from Pace®: was told by PACE SS-2 had enough volume to sample # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):						
Shipped by/Company: (Signature) Paul Stead BE3 Date/Time: 3/28 3:30				Received by/Company: (Signature) [Signature] Date/Time: 3/28/24 1600				Tracking Number:						
Shipped by/Company: (Signature) [Signature] Date/Time: 3/28/24 1600				Received by/Company: (Signature) [Signature] Date/Time:				Delivered by: In- Person Courier FedEX UPS Other						
Shipped by/Company: (Signature) Date/Time:				Received by/Company: (Signature) Date/Time:				Page: of:						

Page 48 of 49

	DC#_Title: ENV-FRM-ELON-0009 v04_Air Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client BE3
 Project Voelkers
 MCP/RCP Required _____
 Deliverable Package Requirement _____
 Location _____
 PWSID# (When Applicable) _____
 Arrival Method Courier
 Received By / Date / Time KMC 3/29/24 1200
 Back-Sheet By / Date / Time KMC 4/2/24 0815
 Temperature Method _____ # _____
 Temp $\leq 6^{\circ}\text{C}$ _____ Actual Temperature _____
 Rush Samples: Yes / No _____ Notify _____
 Short Hold: Yes / No _____ Notify _____

Notes regarding Samples/COC outside of SOP:

National cons/regulators.

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy)
 Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☐	☒
Received in Cooler	☐	☒
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Individually Certified Cans	☐	☒
Trip Blanks	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☐	Analysis ☒	Sampler Name ☐
Project ☐	IDs ☒	Collection Date/Time ☒

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	15	1L	15	24hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s	5	23595	10	21443	15		Regs #'s	5	10009	10	29542	15	
1	13689	6	24730	11	20313	16	1	009893	6	14236	11	29548	16
2	24588	7	24020	12	20304	17	2	029553	7	29504	12	9952	17
3	21170	8	14016	13	20188	18	3	14269	8	15679	13	14108	18
4	22052	9	10439	14	20221	19	4	9897	9	29469	14	9685	19
Unused Media	4		9		14		Pufs/TO-17's	5		10		15	
1	008487	5		10		15	1		6		11		16
2	14157	6		11		16	2		7		12		17
3		7		12		17	3		8		13		18
4		8		13		18	4		9		14		19