

PHASE II ENVIRONMENTAL SITE ASSESSMENT

**375 MICHIGAN AVENUE
BUFFALO, ERIE COUNTY, NEW YORK**

Prepared for:

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July 2024

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1.0 INTRODUCTION

Brydges Engineering in Environment and Energy (BE3) completed a Phase II Environmental Site Assessment (ESA) for 375 Michigan Street, Buffalo, Erie County, New York (refer to **Figure 1**). The Subsurface Assessment/Phase II was completed in accordance with ASTM E1903-19 - Standard Guide for Environmental Site Assessments: - Phase II Environmental Site Assessment Process and 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).

This assessment is an addition to a Phase II ESA completed on this property in August 2020; "Subsurface Environmental Site Assessment, 375 Michigan Avenue, Buffalo, Erie County, New York." Prepared for Norstar Development USA, L.P. and Norstar Building Corporation; August 2020. The purpose of the 2020 assessment was based on the recognized environmental conditions (RECs) identified in the Phase I ESA on the subject property and to obtain information and data for assessing potential environmental impacts at the property. The purpose of this subject Phase II ESA was to assess if the property was eligible for the Brownfield Cleanup Program (BCP).

1.1 BACKGROUND

1.1.1 General Site Setting

The property is located in the block bounded by East Eagle Street to the north; South Division Street to the south; Michigan Avenue to the west and Minnie Gillette Drive to the east. The 375 Michigan Avenue parcel is currently occupied by a vacant building most recently used as SunRise II MiniMart in the northwest portion of the property at the southeast corner of Michigan and East Eagle Streets. The remaining area of the property is vacant, grass covered land. The property is about 100 yards northeast of the Erie County Public Safety Campus which is an adjacent property across Michigan Avenue. The property is slightly more than a half-mile east-southeast of Buffalo City Hall and slightly less than a mile east of Lake Erie. The immediate area around the property is along the eastern end of the downtown business district of the city and contains mainly commercial/office space with some buildings converted to mixed use residential. A large residential housing complex is located east of the property and a small office is located immediately south along South Division Street.

1.1.2 Physical Setting

Local area topography is generally level. Surface relief in the immediate vicinity of the subject property is relatively uniform, with overall gentle downward slopes to the south-southwest, towards Lake Erie. The middle of the 375 Michigan Avenue parcel is located at approximately latitude 42.882563° N; Longitude 78.868231° W and is 603 feet above sea level. The property currently includes the vacant Sun Rise Mini-Mart, (formerly a KFC restaurant) which is in the northwest corner of the parcel. The one-story, 2,352 square foot slab-on-grade structure was constructed in 1997. Asphalt covered drive and parking surround the immediate building area. The remaining area of the property is grass covered. Large sized gravel and a few small patches of asphalt were observed across the property and are the remains of its former use as a parking lot.

1.1.3 Description of Historical Use

Historical records indicate that the property was a large parking lot from the late 1950's through the 1990s. Prior to that the property was a typical city block with multiple residential or store fronts. Two of the parcels within these city blocks contained uses that potentially could create environmental impacts. Historic maps during this time indicate that an auto repair shop and gas station were located on the northwest corner of the property from the 1930s to the 1950s along with an electrical storage/repair shop (location of vacant mini mart today). From at least 1930 to at least 1955 the property at 383 Michigan Street, which is now part of the vacant property, was a Tailor. In 1950 Rear Twin Cleaners was also listed on this property.

The Phase I ESA completed in 2020 identified the following RECS:

- Historically, according to Sanborn maps of the property (listed as 403 Michigan Street), from the 1930s to 1950s a gas station as well as an auto repair shop was present in the northwest corner of the property. The removal/presence of any USTs is unknown.
- From at least 1930 to at least 1955 the property at 383 Michigan Street, which is now part of the vacant property, was a Tailor. In 1950 Rear Twin Cleaners was also listed on this property.

The purpose of the Phase II Subsurface Assessment completed in 2020 was to identify potential environmental impacts at 375 Michigan Avenue associated with the RECs and the history and use of the two former properties which are now contained in the 375 Michigan Avenue property including:

- Potential of gasoline, fuel oil and other petroleum-related compounds associated with the gas station and vehicle repair at 403 Michigan Avenue; and
- Solvents associated with potential dry-cleaning at 383 Michigan Avenue

The conclusion of that 2020 assessment was that field observations and screening completed during the Phase II ESA as well as the laboratory results from soil samples did not indicate any soil impacts during the limited subsurface soil assessment.

1.1.4 Contaminants of Concern

The history and use of the property suggest there were potential contaminants of concern associated with fill material. Potential contaminants include metals and polycyclic aromatic hydrocarbons (PAHs) in fill. The contaminants of concern associated with the RECs identified in the Phase I ESA included petroleum related compounds associated with historic auto operations and potential chlorinated solvents near the former cleaner/tailor property. These contaminants were not found during the prior subsurface assessment.

1.2 SCOPE

The objective of this environmental assessment was to assess the potential for environmental impacts associated with fill materials based on the potential for urban fill and construction and demolition debris resulting from the past demolition of historical structures. The scope included completing soil borings across the property to assess near surface soils.

2.0 FIELD INVESTIGATIONS

The subsurface assessment field work was completed over a two-day period; March 15, 2024, and on April 15, 2024. Prior to conducting the Phase II ESA, the utility locate center was notified to mark underground utilities on the properties. Phase II tasks included:

- 1) Geobrobe soil borings to assess subsurface soil conditions across the property;
- 2) Hand Auger borings to assess near surface soil across the property; and
- 3) Installation of a soil vapor probe near prior petroleum and cleaner/tailor locations.

2.1 SOIL BORINGS/ASSESSMENT

A subsurface and near-surface soil assessment was completed to investigate the potential for urban fill and construction and demolition debris on the subject property. Borings were installed across the property to gauge fill conditions as follows:

- A total of fourteen (14) soil borings, labeled BH1 through BH14, were advanced on March 15, 2024, to a depth of four (4) feet deep. Borings were completed when native soil was encountered.
- A total of twelve (12) soil hand auger borings, labeled NS1 through NS12, were advanced on April 15, 2024, to a depth of one to two feet (1-2).

A BE3 technician/geologist examined the soil as the borings were advanced. A total of ten (10) of the fourteen (14) soil samples collected during the March 15, 2024, boring program and five (5) of the twelve (12) near surface soil samples collected on April 15, 2024 were submitted for laboratory analysis. Samples were focused on collecting the most impacted soil based on visual observation and the samples were spread across the property.

The BE3 field technician/geologist logged all samples and performed visual and field screening of all soil. The soil samples were analyzed for the NYSDEC Part 375 brownfields list of metals and semi-volatile organic compounds to assess fill conditions.

2.2 SOIL VAPOR ASSESSMENT

A soil vapor point (VP-1) was installed near the historic gasoline service station and cleaner/tailor (refer to attached Figure 2). Sampling and probe installation were conducted in accordance with NYSDOH guidance for evaluating soil vapor intrusion (NYSDOH Soil Vapor Intrusion Guidance-October 2006). The Vapor Point was installed at a depth above native soil. Neither groundwater nor bedrock was encountered before native soil was observed. A ¼ inch PVC tube with screen at the bottom was installed at the bottom of the probe hole. Porous sand was backfilled around/above the screen and a bentonite seal was placed above the sand layer to seal off the hole around the tubing. An air sample was collected in a regulated summa canister over an 8-hour period. The sample was analyzed for USEPA TO- 15 compounds.

3.0 RESULTS

3.1 SOIL BORINGS/ASSESSMENT

The borings indicate that shallow subsurface conditions generally consisted of fill with large to medium size stone and silty, sandy clay along with pieces of brick, asphalt, and other debris. The

stone is possibly the remnant base or subbase of the former parking lot that existed across the property. Fill depths ranged from 2 to 4 feet bgs in most locations. Below the fill in most locations was brown silty clay or red-brown silty-clay, stiff and tight at most depths. No significant groundwater was observed at the depths of the boreholes. None of the borings encountered bedrock at the depths completed. Most boreholes were completed to 4 feet or less (refer to borehole logs in **Appendix B**) as the scope was designed to assess the fill across the site. A previous 2020 Phase II ESA completed in specific locations at the property were deeper and confirm the basic shallow geology.

In general, the results of the 2024 Phase II ESA indicated the following regarding subsurface soils:

- Fill exists at shallow depths across the properties to at least 2-4 feet in most locations.
- The fill contains elevated levels of metals and semi volatile organic compounds, mostly polynuclear aromatic hydrocarbons (PAHs) (see **Figure 2**).

Soil samples were analyzed on a standard 10-day turnaround time. The analytical soil results were compared to the NYSDEC 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**.

3.1.1 Soil

All fifteen soil samples were analyzed for NYSDEC Part 375 metals by EPA Method 6010C and NYSDEC Part 375 SVOCs by EPA Method 8270D. The samples were collected from near surface soil from approximately 1 to 4 feet bgs,

Metals

Metal compounds were observed in all soil samples analyzed. Of the fifteen soil samples analyzed three had elevated metals above NYSDEC restricted residential SCOs. A summary of metals above NYSDEC SCOs is provided in **Table 1** and **Figure 2** and are summarized below

- Arsenic was above industrial SCOs in BH-9 at 17.2 ppm.
- Barium was above commercial SCOs in BH-9 at 1,100 ppm.
- Lead was above restricted residential SCOs in BH-8 at 641 ppm, and above commercial SCOs in BH-9 at 1,570 ppm and NS-10 at 2,080 ppm.
- Mercury was above restricted residential SCOs in BH-9 at 1.0 ppm.

Semi-Volatile Organic Compounds (SVOCs)

Of the fifteen soil samples submitted for laboratory analysis, four samples had SVOC results above restricted-residential SCOs and these were associated with PAHs – refer to **Table 1** and **Figure 2**. These are summarized as follows:

- Benzo(a)anthracene was detected in BH-2 above industrial SCOs at 13 ppm.
- Benzo(a)pyrene was detected above industrial SCOs in BH-2 at 12 ppm and above restricted residential in NS-8 at 1.6 ppm.
- Benzo(b)fluoranthene was detected in BH-2 above industrial SCOs at 15 ppm, above restricted residential SCOs in BH-7 at 1.0 ppm, in NS-8 at 2.3 ppm and in NS-11 at 1.1

- ppm.
- Benzo(k) fluoranthene was detected in BH-2 above restricted residential SCOs at 5.3 ppm.
- Chrysene was detected in BH-2 above restricted residential SCOs at 13 ppm.
- Dibenzo(a,h)anthracene was detected in BH-2 above industrial SCOs at 2.1 ppm
- Indeno(1,2,3-c,d)pyrene was detected above commercial SCOs in BH-2 at 6.1 ppm.

3.1.2 Soil Vapor

Several VOCs were detected in the Soil Gas Sample SV-1, but none were detected above guidance (**Refer to Table**).

4.0 CONCLUSIONS

The primary purpose of this assessment was to identify soil conditions at the 375 Michigan Street property in relation to the urban fill and soil cleanup objectives. The previous Phase II ESA in 2020 was directed at recognized environmental concerns identified in the Phase I ESA. Since the 2020 Phase II did not identify any significant impacts to soils from the RECs identified a soil gas sample was collected during the subject Phase II ESA as an adjunct to the previous assessment.

The subsurface soil assessment suggests fill materials exist across the site down to at least 2-4 feet. Soil sample laboratory results indicate that there are urban fill conditions existing at the property with several elevated metal and PAH compounds above restricted residential NYSDEC SCOs and several above commercial/industrial soil SCOs.

The soil vapor assessment indicated that soil vapors were not elevated above guidance values At the one location sampled. The previous 2020 Phase II ESA directed at the identified RECs did not find any indication of impacted soil from past petroleum or dry cleaner use. It is possible that undocumented tanks or impacted materials exist at the property based on historical use, but none were indicated in the subsurface assessments. Redevelopment plans should include procedures for the proper response to these issues should they be uncovered during development. Although no elevated organic vapor was indicated during the Phase II ESAs, BE3 recommends incorporating passive vapor intrusion systems in any new building designs.

5.0 WARRANTS AND LIMITATIONS

This report is based on information from limited soil/vapor sampling and visual observations of the soils as well as a review of previous ESAs 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 Beacon Communities Services 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 not evaluated.

6.0 PROFESSIONAL STATEMENT/SIGNATURE

This subsurface assessment at 375 Michigan Avenue, Buffalo, New York was performed in conformance with the scope and limitations of ASTM Practice E 1903-19 for the specific objectives specified in the report and was completed based on the scope of work proposed in advance. 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 40 CFR 312 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.

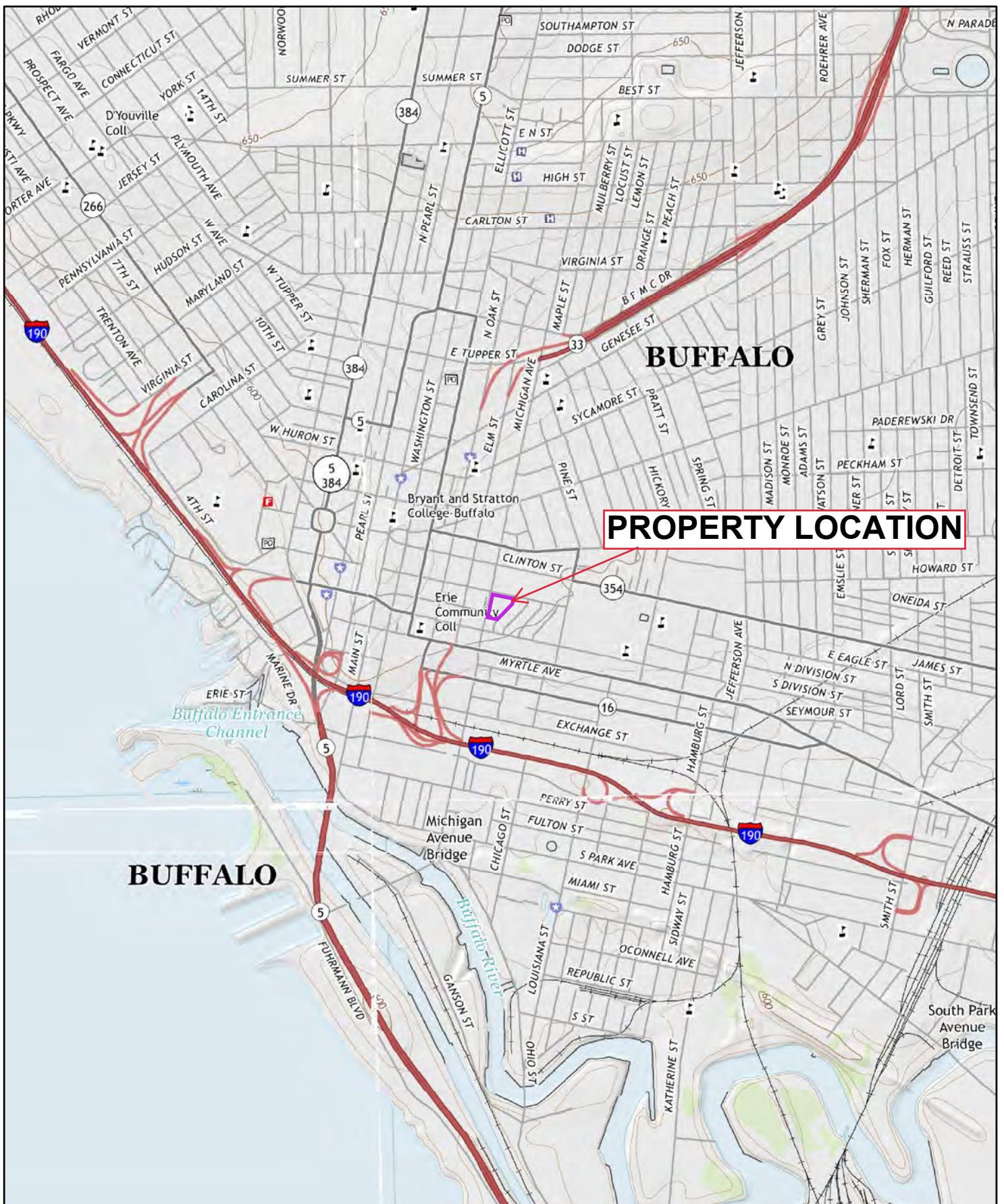


John Berry, P.E.

7-15-2024

Date

FIGURES/DRAWINGS



2016

0 0.2 0.4 0.8 Miles

Order No. 20200513022

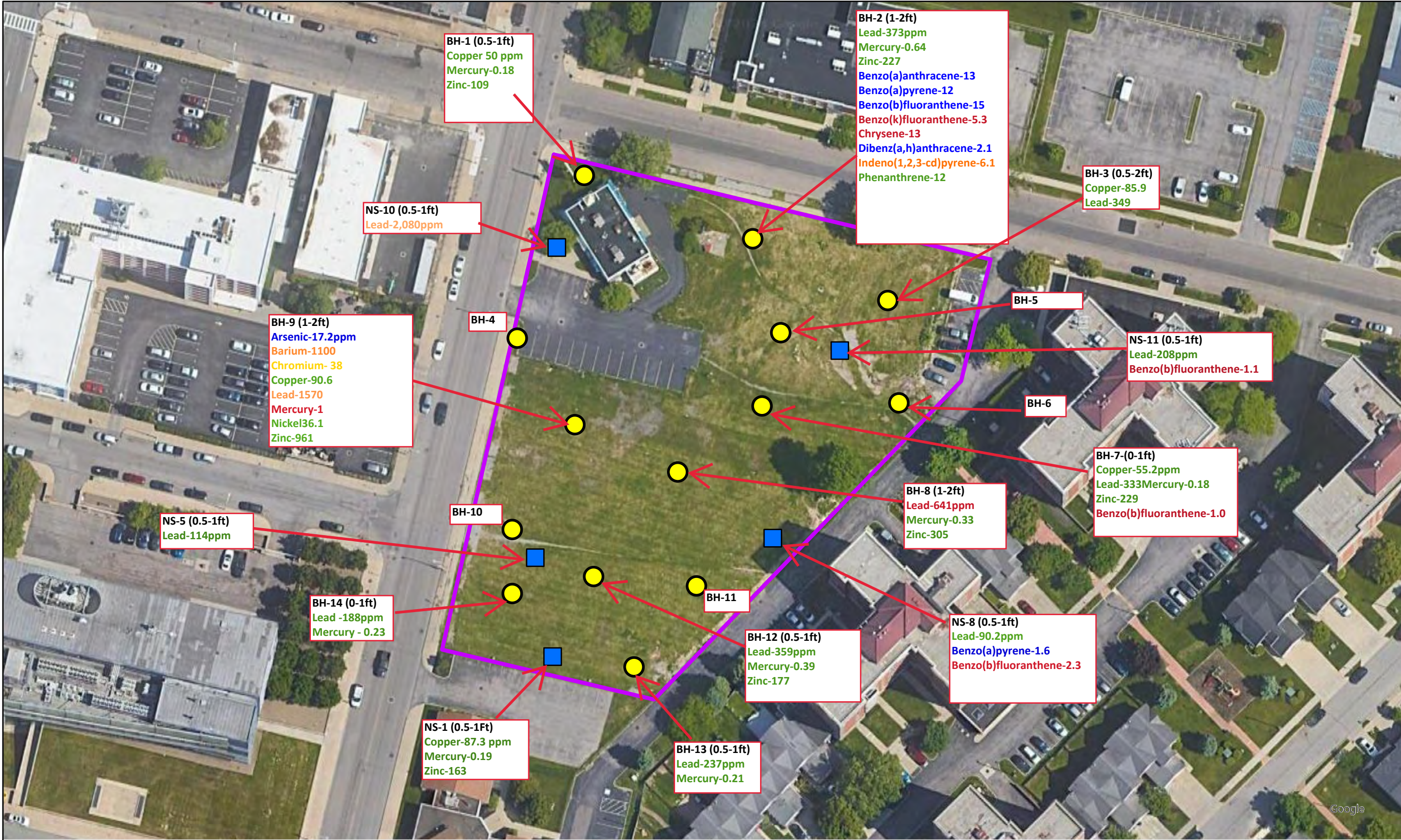
Quadrangle(s): Buffalo NE,NY

Source: USGS 7.5 Minute Topographic Map

FIGURE 1A: Property Location



FIGURE 1B: 2017 Aerial with 1950 Sanborn Overlay



LEGEND

● Soil Boring

■ Near Surface Sample

— Project Boundary

Note:
All results listed are in units of parts per million (ppm)

Above Unrestricted SCOs

Above Residential SCOs

Above Restricted Residential SCOs

Above Commercial SCOs

Above Industrial SCOs

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CLIENT - BEACON COMMUNITIES

**Figure 2 - BE3 Phase II Investigation
Summary Results**
375 Michigan Avenue
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DATE ISSUED:
May 18, 2024

△
△
△
△

Scale: 1:1,146

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 0.5-1	BH-2 1-2	BH-3 0.2-2	BH-7 0-0.5	BH-8 1-2	BH-9 1-2	BH-10 0.5-1.5	BH-12 0.5-1	BH-13 0.5-1	BH-14 0.5-1	Unrestricted	Residential	Restricted Residential	Commerical	Industrial
	3/15/2023														
METALS/INORGANICS															
Arsenic	6.6	6.5	6.6	8.2	6	17.2	4.4	7.1	4.5	4.2	13	16	16	16	16
Barium	188	221	175	231	183	1100	54.4	184	128	81.7	350	350	400	400	10,000
Beryllium	0.77	0.62	0.94	0.61	0.34	0.45	0.21 J	0.79	0.73	0.3	7.2	14	72	590	2,700
Cadmium	0.52	0.56	0.41	0.36	0.76	1.3	0.44	0.41	0.21 J	0.35	2.5	2.5	4.3	9.3	60
Chromium	7.5	16.9	24.7	24.7	14.5	38	9.3	24.7	23.7	17.6	30	36	180	1500	6800
Copper	50	24.4	85.9	55.2	21.2	90.6	26.8	29.9	16.2	16.1	50	270	270	270	10000
Lead	2.9	373	349	333	641	1570	51.5	359	237	188	63	400	400	1000	3,900
Manganese	439 B	378 B	384 B	314 B	324 B	258 B	209 B	548 B	38 B	443 B	1,600	2,000	2000	10000	10000
Mercury	0.18	0.64	0.17	0.18	0.33	1	0.15	0.39	0.21	0.23	0.18	0.81	0.81	2.8	5.7
Nickel	16	16.3	22.8	22.1	14.3	36.1	12.3	23.1	19	12.8	30	140	310	310	10000
Selenium	ND	ND	ND	ND	ND	0.51 J	ND	ND	ND	ND	3.9	36	180	1500	6,800
Silver	ND	ND	ND	ND	ND	1.1	0.37 J	ND	ND	ND	2	36	180	1500	6,800
Zinc	109	227	170	229	305	961	89.8	177	104	96.8	109	2,200	10000	10000	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)															
Acenaphthene	ND	0.42 J	ND	ND	ND	ND	ND	ND	ND	ND	20	100	100	500	1,000
Acenaphthylene	ND	2	0.049 J	ND	ND	ND	ND	ND	ND	ND	100	100	100	500	1,000
Anthracene	ND	3.3	0.058 J	ND	ND	ND	ND	ND	ND	ND	100	100	100	500	1,000
Benzo(a)anthracene	0.42 J	13	0.39	0.67 J	0.12 J	0.43 J	ND	0.34 J	0.11 J	0.47 J	1	1	1	5.6	11
Benzo(a)pyrene	0.38 J	12	0.39	0.69 J	0.13 J	0.47 J	ND	0.33 J	ND	ND	1	1	1	1	1.1
Benzo(b)fluoranthene	0.5 J	15	0.51	1.0 J	0.15 J	0.57 J	ND	0.42 J	ND	ND	1	1	1	5.6	11
Benzo(g,h,i)perylene	0.29 J	7.1	0.28	0.49 J	0.086 J	0.29 J	ND	0.25 J	ND	0.4 J	100	100	100	500	1,000
Benzo(k)fluoranthene	ND	5.3	0.19 J	0.36 J	0.093 J	0.38 J	ND	0.2 J	ND	ND	0.8	1	3.9	56	110
Chrysene	ND	13	0.44	0.79 J	0.13 J	0.53 J	ND	0.35 J	ND	ND	1	1	3.9	56	110
Dibenz(a,h)anthracene	ND	2.1	0.073 J	ND	ND	ND	ND	ND	ND	ND	0.33	0.33	0.33	0.56	1.1
Dibenzofuran	ND	0.27 J	ND	ND	ND	ND	ND	ND	ND	ND	2.1	4.2	18	180	290
Fluoranthene	0.9 J	26	0.80	1.6 J	0.27	1.1 J	ND	0.79 J	0.28 J	1.1 J	85	100	100	500	1,000
Fluorene	ND	0.67 J	ND	ND	ND	ND	ND	ND	ND	ND	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	ND	6.1	0.22	0.44 J	0.079 J	0.3 J	ND	0.2 J	ND	ND	0.5	0.5	0.5	5.6	11
Phenanthrene	0.51 J	12	0.43	0.89 J	0.11 J	0.63 J	ND	0.39 J	0.15 J	0.63 J	1.1	100	100	500	1,000
Pyrene	0.65 J	23	0.74	1.3 J	0.22 J	0.89 J	ND	0.62 J	0.23 J	0.84 J	64	100	100	500	1,000

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

Analyte detected
Reported concentration greater than or equal to the NYSDEC Unrestricted SCO
Reported concentration greater than or equal to the NYSDEC Residential SCO
Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO
Reported concentration greater than or equal to the NYSDEC Commercial SCO
Reported concentration greater than or equal to the NYSDEC Industrial SCO

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Phase II Report April 2024 - Sample Identification, Sample Depth in feet bgs, and Sample Date					NYSDEC Soil Cleanup Objectives (SCOs)				
	NS-1 0.5-1	NS-5 0.5-1	NS-8 0.5-1	NS-10 0.5-1	NS-11 0.5-1	Unrestricted	Residential	Restricted Residential	Commerical	Industrial
	4/15/2024									
METALS/INORGANICS										
Arsenic	1.8 J	3.7	4.7	5.4	6.8	13	16	16	16	16
Barium	60.7	56.5	59.2	82.6	110	350	350	400	400	10,000
Beryllium	ND	0.31 J	0.39 J	0.57	0.57	7.2	14	72	590	2,700
Cadmium	1.3	0.27 J	0.33 J	0.36 J	0.37 J	2.5	2.5	4.3	9.3	60
Chromium	7.7	10.5	12.4	11.1	7.7	30	36	180	1500	6800
Copper	87.3	16	18.3	38.5	16.4	50	270	270	270	10000
Lead	19.9	114	90.2	2,080	208	63	400	400	1000	3,900
Manganese	65.2	192	280	314	171	1,600	2,000	2000	10000	10000
Mercury	0.19	0.11	0.11	0.17	0.12	0.18	0.81	0.81	2.8	5.7
Nickel	6.1 J	11.6	13.1	11.3	8.5 J	30	140	310	310	10000
Selenium	1.4 J	ND	ND	ND	ND	3.9	36	180	1500	6,800
Silver	0.64 J	ND	ND	ND	ND	2	36	180	1500	6,800
Zinc	163	96.6	82.2	103	71.7	109	2,200	10000	10000	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)										
Benzo(a)anthracene	ND	ND	ND	ND	0.81 J	1	1	1	5.6	11
Benzo(a)pyrene	ND	ND	1.6 J	ND	0.84 J	1	1	1	1	1.1
Benzo(b)fluoranthene	ND	ND	2.3 J	ND	1.1 J	1	1	1	5.6	11
Benzo(g,h,i)perylene	ND	ND	1.3 J	ND	0.46 J	100	100	100	500	1,000
Benzo(k)fluoranthene	ND	ND	ND	ND	0.55 J	0.8	1	3.9	56	110
Chrysene	ND	ND	ND	ND	0.8 J	1	1	3.9	56	110
Fluoranthene	1.4 J	1.4 J	2.4 J	0.41 J	1.8 J	100	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.39 J	0.5	0.5	0.5	5.6	11
Phenanthrene	ND	ND	ND	ND	0.7 J	100	100	100	500	1,000
Pyrene	ND	ND	2 J	0.25 J	1.1 J	100	100	100	500	1,000

All Values are presented in Parts Per Million (PPM) or milligram per kilogram (mg/kg)

ACRONYMS:

ND Analyte not detected

J Estimated Concentration

bgs Below ground surface

NYSDEC New York State Department of Environmental Conservation

SCO Soil Cleanup Objective

NOTES:

	represents exceedance(s) above NYSDEC unrestricted SCOs but below NYSDEC residential SCOs
	represents exceedance(s) above NYSDEC residential SCOs but below NYSDEC restricted residential SCOs
	represents exceedance(s) above NYSDEC restricted residential SCOs but below NYSDEC commercial SCOs
	represents exceedance(s) above NYSDEC commercial SCOs but below NYSDEC industrial SCOs
	represents exceedance(s) above NYSDEC industrial SCOs

TABLE 3 - SOIL VAPOR SAMPLING RESULTS



Contaminants	Sample Identification, Type of Sample, and Date Analyzed	Table 3.1 NYSDOH Indoor Air Guideline Values (µg/m ³)	Decision Matrix Guidance Values (Soil Vapor) (µg/m ³)	Decision Matrix Guidance Values (Indoor Air) (µg/m ³)
	SV-1			
	Soil Vapor			
	4/16/2024			
	Volatile Organic Compounds (TO-15)			
1,2,4-Trimethylbenzene	3	-	60	10
1,3,5-Trimethylbenzene	0.74	-	60	10
2-Butanone (MEK)	14	-		-
2-Hexanone (MBK)	1.2	-		-
Acetone	290	-		-
Benzene	1.7	-	60	10
Carbon Tetrachloride	ND	-	6	1
Chloroethane	0.41	-		-
Chloromethane	3.9	-		-
Dichlorodifluoromethane (Freon 12)	1.9	-		-
Ethanol	300	-		-
Ethylbenzene	1.3	-	60	10
Heptane	2.5	-	200	20
Hexane	ND	-	200	20
m&p-Xylene	5.8	-	200	20
Methylene Chloride	ND	60	100	10
Naphthalene	ND	-	60	10
o-Xylene	2.1	-	60	10
Propene	43	-		
Tetrachloroethylene	ND	30	100	10
Tetrahydrofuran	ND	-		
Toluene	3.5	-	300	50
Trichloroethylene	ND	2	6	1
Vinyl Chloride	ND	-	6	0.2

NO FURTHER ACTION No further action is required.

IDENTIFY SOURCE(S) AND RESAMPLE OR MITIGATE: It is recommended that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air

MONITOR: It is recommended that monitoring, including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air

MITIGATE: Equal to or Above guideline values as compared to Table 3.1 Indoor Air Guidelines derived by NYSDOH

ND Not detected

- Not applicable

J Estimated concentration

APPENDICES

Photolog



1. View of BH-1 location looking southeast



2. View of BH-1 location looking northwest



3. View of BH-1 soil cores



4. View of BH-2 location looking north



5. View of BH-2 location looking southeast



6. View of BH-2 soil cores



7. View of BH-3 location looking south



8. View of BH-3 location looking north



9. View of BH-3 soil cores



10. View of BH-4 location looking south-southwest



11. View of BH-4 location looking north-northeast



12. View of BH-4 soil cores



13. View of BH-5 location looking southeast



14. View of BH-5 location looking east-northeast



BRYDGES ENGINEERING
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15. View of BH-5 soil cores



16. View of BH-6 location looking southeast



17. View of BH-6 location looking northeast



18. View of BH-6 soil cores



19. View of BH-7 location looking south



20. View of BH-7 location looking southwest



21. View of BH-7 soil cores



22. View of BH-8 location looking southeast



23. View of BH-8 location looking west



24. View of BH-8 soil cores



25. View of BH-9 location looking east



26. View of BH-9 location looking west



BRYDGES ENGINEERING
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27. View of BH-9 soil cores



28. View of BH-10 location looking west



29. View of BH-10 location looking east



30. View of BH-10 soil cores



31. View of BH-11 location looking northwest



32. View of BH-11 location looking north



33. View of BH-11 soil cores



34. View of BH-12 location looking west



35. View of BH-12 location looking south



36. View of BH-12 soil cores



37. View of BH-13 location looking southwest



38. View of BH-13 location looking south



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39. View of BH-13 soil cores



40. View of BH-14 location looking west



41. View of BH-14 location looking east



42. View of BH-14 soil cores



43. View of NS-1 location looking southwest



44. View of NS-2 location looking southeast



45. View of NS-3 location looking southeast



46. View of NS-4 location looking west



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47. View of NS-5 location looking east



48. View of NS-6 location looking west



49. View of NS-7 location looking west



50. View of NS-8 location looking northeast



51. View of NS-9 location looking west



52. View of NS-10 location looking southeast



53. View of NS-11 location looking west



54. View of NS-12 location looking north



55. View of SV-1 location looking west



56. View of SV-1 location looking north

BORING LOGS

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-1		Depth to Bedrock:	N/A	

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

Comments:
 No PID readings.
 Soil sample collected at 0.5-1' bgs for metals and SVOCs
 Native soil observed at approximately 1-1.5' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-2		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.2' - Vegetation, organics, topsoil
1	1	G	Urban Fill		
2					
3					
4				0.0	0.2-3' - Brown silty clay, debris including brick, ash, black cinder
5				0.0	3-4' - Red to brown silty clay, native
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 SVOCs
 Native soil observed at approximately 3' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-3		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.2' - Vegetation, organics, topsoil
1	1	G	Urban Fill		
2				0.0	0.2-2' - Brown silty clay, debris including brick, ash, black cinder
3					
4				0.0	2-4' - Red to brown silty clay, very stiff, native
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 0.2-2' bgs for metals and SVOCs
 Native soil observed at approximately 2' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-4		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.2' - Vegetation, organics, topsoil
1	1	G	Urban Fill		
2				0.0	0.2-2' - Dark brown-black topsoil, some black cinder
3					
4				0.0	2-4' - Red to brown silty clay, very stiff, native
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 SVOCs
 Native soil observed at approximately 2' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-5		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0	1	G	Urban Fill	0.0	0-0.2' - Vegetation, organics, topsoil
				0.0	0.2-0.5' - Dark brown-black topsoil, rock, some black cinder
1					
2					
3					
4				0.0	0.5-4' - Red to brown silty clay, some grey streaks, very stiff, native
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 0.2-0.5' bgs for metals and SVOCs
 Native soil observed at approximately 0.5-1' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-6		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0	1	G	Urban Fill	0.0	0-0.2' - Vegetation, organics, topsoil
1				0.0	0.2-1' - Dark brown-black topsoil, some black cinder
2					
3					
4				0.0	1-4' - Red to brown silty clay, very stiff, native
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 0.2-1' bgs for metals and SVOCs
 Native soil observed at approximately 1' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-7		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0	1	G	Urban Fill	0.0	0-0.2' - Vegetation, organics, topsoil
				0.0	0.2-0.5' - Dark brown-black topsoil, rock, some black cinder
1					
2					
3					
4				0.0	0.5-4' - Red to brown silty clay, some grey streaks, very stiff, native
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 0.2-0.5' bgs for metals and SVOCs
 Native soil observed at approximately 0.5-1' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-8		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.2' - Vegetation, organics, topsoil
1	1	G	Urban Fill		
2				0.0	0.2-2' - Black cinder, brick, ash, fill, some rock
3					
4				0.0	2-4' - Red to brown silty clay, very stiff, native
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 SVOCs
 Native soil observed at approximately 2' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-9		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.2' - Vegetation, organics, topsoil
1			Urban Fill		
2	1	G		0.0	0.2-2' - Brown silty clay, black cinder, brick, ash, fill, some rock
3					
4				0.0	2-4' - Red to brown silty clay, very stiff, native
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 SVOCs
 Native soil observed at approximately 2' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-10		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.2' - Vegetation, organics, topsoil
1	1	G	Urban Fill		
				0.0	0.2-1.5' - Brown silty clay, black cinder, brick, ash, fill, some rock
2					
3					
4				0.0	1.5-4' - Red to brown silty clay, very stiff, native
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 0.5-1.5' bgs for metals and SVOCs
 Native soil observed at approximately 1.5' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-11		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.2' - Vegetation, organics, topsoil
1	1	G	Urban Fill	0.0	0.2-1' - Brown silty clay, debris including brick, ash, black cinder
2					
3					
4				0.0	1-4' - Red to brown silty clay, some grey streaks, native
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 0.5-1' bgs for metals and SVOCs
 Native soil observed at approximately 1' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-12		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.2' - Vegetation, organics, topsoil
1	1	G	Urban Fill	0.0	0.2-1' - Brown silty clay, trace debris including brick, ash, black cinder
2					
3					
4				0.0	1-4' - Red to brown silty clay, some grey streaks, native
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 0.2-1' bgs for metals and SVOCs
 Native soil observed at approximately 1' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-13		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.2' - Vegetation, organics, topsoil
1	1	G	Urban Fill		
				0.0	0.2-1.5' - Brown silty clay, black cinder, brick, ash, fill, some rock
2					
3					
4				0.0	1.5-4' - Red to brown silty clay, very stiff, native
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 0.5-1' bgs for metals and SVOCs
 Native soil observed at approximately 1.5' bgs

Geoprobe Bore Hole Log



Project:			375 Michigan Avenue		
Client:	Beacon Communities		Location:	375 Michigan Avenue, Buffalo, NY	
Contractor:	Empire Geology & Exploration		Ground Elevation:	Approximately 600 ft	
Date Started:	3/15/2024		Equipment Model:	Truck-Mounted Macro-Core Sampler	
Date Completed:	3/15/2024		Geologist/Technician:	Jacob Cox	
Operator:	Empire Geology & Exploration		Ground Water:	N/A	
Bore Hole Number:	BH-14		Depth to Bedrock:	N/A	

Depth (ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0	1	G	Urban Fill	0.0	0-1' - Rock/crushed stone, black cinder brick
1					
2					
3					
4				0.0	1-4' - Red to brown silty clay, very stiff, native
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
 No PID readings.
 Soil sample collected at 0-1' bgs for metals and SVOCs
 Native soil observed at approximately 1' bgs
 Rock visible at the surface

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

Generated 3/28/2024 8:02:50 AM

JOB DESCRIPTION

375 Michigan Avenue

JOB NUMBER

480-217909-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization



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Authorized for release by
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(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Qualifiers

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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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
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: 375 Michigan Avenue

Job ID: 480-217909-1

Job ID: 480-217909-1

Eurofins Buffalo

Job Narrative 480-217909-1

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 3/15/2024 2:30 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 time was 4.7°C.

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-1 0.5-1 (480-217909-1), BH-2 1-2 (480-217909-2), BH-7 0-0.5 (480-217909-7), BH-9 1-2 (480-217909-9), BH-10 0.5-1.5 (480-217909-10), BH-12 0.5-1 (480-217909-12), BH-13 0.5-1 (480-217909-13) and BH-14 0.5-1 (480-217909-14). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: BH-14 0.5-1 (480-217909-14). 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.

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

Metals

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

General Chemistry

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

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-1 0.5-1

Lab Sample ID: 480-217909-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	420	J	2000	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	380	J	2000	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	500	J	2000	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	290	J	2000	210	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	900	J	2000	210	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	510	J	2000	300	ug/Kg	10	✱	8270D	Total/NA
Pyrene	650	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Arsenic	6.6		2.6	0.51	mg/Kg	1	✱	6010C	Total/NA
Barium	188		0.64	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.77		0.26	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.52		0.26	0.038	mg/Kg	1	✱	6010C	Total/NA
Chromium	7.5		0.64	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	50.0		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	2.9		1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	439	B	0.26	0.041	mg/Kg	1	✱	6010C	Total/NA
Nickel	16.0		6.4	0.29	mg/Kg	1	✱	6010C	Total/NA
Zinc	109		2.6	0.82	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.18		0.025	0.0058	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-2 1-2

Lab Sample ID: 480-217909-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	420	J	1900	280	ug/Kg	10	✱	8270D	Total/NA
Acenaphthylene	2000		1900	250	ug/Kg	10	✱	8270D	Total/NA
Anthracene	3300		1900	480	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	13000		1900	190	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	12000		1900	280	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	15000		1900	310	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	7100		1900	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	5300		1900	250	ug/Kg	10	✱	8270D	Total/NA
Chrysene	13000		1900	430	ug/Kg	10	✱	8270D	Total/NA
Dibenz(a,h)anthracene	2100		1900	340	ug/Kg	10	✱	8270D	Total/NA
Dibenzofuran	270	J	1900	230	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	26000		1900	200	ug/Kg	10	✱	8270D	Total/NA
Fluorene	670	J	1900	230	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	6100		1900	240	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	12000		1900	280	ug/Kg	10	✱	8270D	Total/NA
Pyrene	23000		1900	230	ug/Kg	10	✱	8270D	Total/NA
Arsenic	6.5		2.4	0.47	mg/Kg	1	✱	6010C	Total/NA
Barium	221		0.59	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.62		0.24	0.033	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.56		0.24	0.036	mg/Kg	1	✱	6010C	Total/NA
Chromium	16.9		0.59	0.24	mg/Kg	1	✱	6010C	Total/NA
Copper	24.4		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	373		1.2	0.28	mg/Kg	1	✱	6010C	Total/NA
Manganese	378	B	0.24	0.038	mg/Kg	1	✱	6010C	Total/NA
Nickel	16.3		5.9	0.27	mg/Kg	1	✱	6010C	Total/NA
Zinc	227		2.4	0.76	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.64	F1	0.024	0.0054	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-3 0.2-2

Lab Sample ID: 480-217909-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	49	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Anthracene	58	J	200	50	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	390		200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	390		200	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	510		200	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	280		200	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	190	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Chrysene	440		200	45	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	73	J	200	36	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	800		200	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	220		200	25	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	430		200	30	ug/Kg	1	✱	8270D	Total/NA
Pyrene	740		200	24	ug/Kg	1	✱	8270D	Total/NA
Arsenic	6.6		2.6	0.51	mg/Kg	1	✱	6010C	Total/NA
Barium	175		0.64	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.94		0.26	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.41		0.26	0.039	mg/Kg	1	✱	6010C	Total/NA
Chromium	24.7		0.64	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	85.9		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	349		1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	384	B	0.26	0.041	mg/Kg	1	✱	6010C	Total/NA
Nickel	22.8		6.4	0.30	mg/Kg	1	✱	6010C	Total/NA
Zinc	170		2.6	0.82	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.17		0.024	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-7 0.0-5

Lab Sample ID: 480-217909-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	670	J	2000	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	690	J	2000	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	1000	J	2000	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	490	J	2000	210	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	360	J	2000	260	ug/Kg	10	✱	8270D	Total/NA
Chrysene	790	J	2000	450	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	1600	J	2000	210	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	440	J	2000	250	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	890	J	2000	300	ug/Kg	10	✱	8270D	Total/NA
Pyrene	1300	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Arsenic	8.2		2.5	0.50	mg/Kg	1	✱	6010C	Total/NA
Barium	231		0.63	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.61		0.25	0.035	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.36		0.25	0.038	mg/Kg	1	✱	6010C	Total/NA
Chromium	24.7		0.63	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	55.2		1.3	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	333		1.3	0.30	mg/Kg	1	✱	6010C	Total/NA
Manganese	314	B	0.25	0.040	mg/Kg	1	✱	6010C	Total/NA
Nickel	22.1		6.3	0.29	mg/Kg	1	✱	6010C	Total/NA
Zinc	229		2.5	0.80	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.18		0.024	0.0055	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-8 1-2

Lab Sample ID: 480-217909-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	120	J	250	25	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	130	J	250	36	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	150	J	250	39	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	86	J	250	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	93	J	250	32	ug/Kg	1	✱	8270D	Total/NA
Chrysene	130	J	250	55	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	270		250	26	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	79	J	250	30	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	110	J	250	36	ug/Kg	1	✱	8270D	Total/NA
Pyrene	220	J	250	29	ug/Kg	1	✱	8270D	Total/NA
Arsenic	6.0		2.9	0.57	mg/Kg	1	✱	6010C	Total/NA
Barium	183		0.71	0.16	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.34		0.29	0.040	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.76		0.29	0.043	mg/Kg	1	✱	6010C	Total/NA
Chromium	14.5		0.71	0.29	mg/Kg	1	✱	6010C	Total/NA
Copper	21.2		1.4	0.30	mg/Kg	1	✱	6010C	Total/NA
Lead	641		1.4	0.34	mg/Kg	1	✱	6010C	Total/NA
Manganese	324	B	0.29	0.046	mg/Kg	1	✱	6010C	Total/NA
Nickel	14.3		7.1	0.33	mg/Kg	1	✱	6010C	Total/NA
Zinc	305		2.9	0.91	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.33		0.029	0.0067	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-9 1-2

Lab Sample ID: 480-217909-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	430	J	2100	210	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	470	J	2100	310	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	570	J	2100	330	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	290	J	2100	220	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	380	J	2100	270	ug/Kg	10	✱	8270D	Total/NA
Chrysene	530	J	2100	470	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	1100	J	2100	220	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	300	J	2100	260	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	630	J	2100	310	ug/Kg	10	✱	8270D	Total/NA
Pyrene	890	J	2100	250	ug/Kg	10	✱	8270D	Total/NA
Arsenic	17.2		2.5	0.49	mg/Kg	1	✱	6010C	Total/NA
Barium	1100		0.61	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.45		0.25	0.034	mg/Kg	1	✱	6010C	Total/NA
Cadmium	1.3		0.25	0.037	mg/Kg	1	✱	6010C	Total/NA
Chromium	38.0		0.61	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	90.6		1.2	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	1570		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	258	B	0.25	0.039	mg/Kg	1	✱	6010C	Total/NA
Nickel	36.1		6.1	0.28	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.51	J	4.9	0.49	mg/Kg	1	✱	6010C	Total/NA
Silver	1.1		0.74	0.25	mg/Kg	1	✱	6010C	Total/NA
Zinc	961		2.5	0.79	mg/Kg	1	✱	6010C	Total/NA
Mercury	1.0		0.026	0.0060	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-10 0.5-1.5

Lab Sample ID: 480-217909-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	4.4		2.2	0.44	mg/Kg	1		✖	6010C	Total/NA
Barium	54.4		0.55	0.12	mg/Kg	1		✖	6010C	Total/NA
Beryllium	0.21	J	0.22	0.031	mg/Kg	1		✖	6010C	Total/NA
Cadmium	0.44		0.22	0.033	mg/Kg	1		✖	6010C	Total/NA
Chromium	9.3		0.55	0.22	mg/Kg	1		✖	6010C	Total/NA
Copper	26.8		1.1	0.23	mg/Kg	1		✖	6010C	Total/NA
Lead	51.5		1.1	0.26	mg/Kg	1		✖	6010C	Total/NA
Manganese	209	B	0.22	0.035	mg/Kg	1		✖	6010C	Total/NA
Nickel	12.3		5.5	0.25	mg/Kg	1		✖	6010C	Total/NA
Silver	0.37	J	0.65	0.22	mg/Kg	1		✖	6010C	Total/NA
Zinc	89.8		2.2	0.70	mg/Kg	1		✖	6010C	Total/NA
Mercury	0.15		0.021	0.0048	mg/Kg	1		✖	7471B	Total/NA

Client Sample ID: BH-12 0.5-1

Lab Sample ID: 480-217909-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	340	J	1000	100	ug/Kg	5		✖	8270D	Total/NA
Benzo[a]pyrene	330	J	1000	150	ug/Kg	5		✖	8270D	Total/NA
Benzo[b]fluoranthene	420	J	1000	170	ug/Kg	5		✖	8270D	Total/NA
Benzo[g,h,i]perylene	250	J	1000	110	ug/Kg	5		✖	8270D	Total/NA
Benzo[k]fluoranthene	200	J	1000	140	ug/Kg	5		✖	8270D	Total/NA
Chrysene	350	J	1000	230	ug/Kg	5		✖	8270D	Total/NA
Fluoranthene	790	J	1000	110	ug/Kg	5		✖	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	200	J	1000	130	ug/Kg	5		✖	8270D	Total/NA
Phenanthrene	390	J	1000	150	ug/Kg	5		✖	8270D	Total/NA
Pyrene	620	J	1000	120	ug/Kg	5		✖	8270D	Total/NA
Arsenic	7.1		2.5	0.49	mg/Kg	1		✖	6010C	Total/NA
Barium	184		0.61	0.14	mg/Kg	1		✖	6010C	Total/NA
Beryllium	0.79		0.25	0.034	mg/Kg	1		✖	6010C	Total/NA
Cadmium	0.41		0.25	0.037	mg/Kg	1		✖	6010C	Total/NA
Chromium	24.7		0.61	0.25	mg/Kg	1		✖	6010C	Total/NA
Copper	29.9		1.2	0.26	mg/Kg	1		✖	6010C	Total/NA
Lead	359		1.2	0.29	mg/Kg	1		✖	6010C	Total/NA
Manganese	548	B	0.25	0.039	mg/Kg	1		✖	6010C	Total/NA
Nickel	23.1		6.1	0.28	mg/Kg	1		✖	6010C	Total/NA
Zinc	177		2.5	0.79	mg/Kg	1		✖	6010C	Total/NA
Mercury	0.39		0.021	0.0048	mg/Kg	1		✖	7471B	Total/NA

Client Sample ID: BH-13 0.5-1

Lab Sample ID: 480-217909-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	110	J	990	99	ug/Kg	5		✖	8270D	Total/NA
Fluoranthene	280	J	990	100	ug/Kg	5		✖	8270D	Total/NA
Phenanthrene	150	J	990	150	ug/Kg	5		✖	8270D	Total/NA
Pyrene	230	J	990	120	ug/Kg	5		✖	8270D	Total/NA
Arsenic	4.5		2.4	0.47	mg/Kg	1		✖	6010C	Total/NA
Barium	128		0.59	0.13	mg/Kg	1		✖	6010C	Total/NA
Beryllium	0.73		0.24	0.033	mg/Kg	1		✖	6010C	Total/NA
Cadmium	0.21	J	0.24	0.035	mg/Kg	1		✖	6010C	Total/NA
Chromium	23.7		0.59	0.24	mg/Kg	1		✖	6010C	Total/NA
Copper	16.2		1.2	0.25	mg/Kg	1		✖	6010C	Total/NA
Lead	237		1.2	0.28	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: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-13 0.5-1 (Continued)

Lab Sample ID: 480-217909-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	380	B	0.24	0.038	mg/Kg	1	✳	6010C	Total/NA
Nickel	19.0		5.9	0.27	mg/Kg	1	✳	6010C	Total/NA
Zinc	104		2.4	0.75	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.21		0.023	0.0053	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: BH-14 0.5-1

Lab Sample ID: 480-217909-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	470	J	3700	370	ug/Kg	20	✳	8270D	Total/NA
Benzo[g,h,i]perylene	400	J	3700	400	ug/Kg	20	✳	8270D	Total/NA
Fluoranthene	1100	J	3700	400	ug/Kg	20	✳	8270D	Total/NA
Phenanthrene	630	J	3700	550	ug/Kg	20	✳	8270D	Total/NA
Pyrene	840	J	3700	440	ug/Kg	20	✳	8270D	Total/NA
Arsenic	4.2		2.2	0.44	mg/Kg	1	✳	6010C	Total/NA
Barium	81.7		0.55	0.12	mg/Kg	1	✳	6010C	Total/NA
Beryllium	0.30		0.22	0.031	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.35		0.22	0.033	mg/Kg	1	✳	6010C	Total/NA
Chromium	17.6		0.55	0.22	mg/Kg	1	✳	6010C	Total/NA
Copper	16.1		1.1	0.23	mg/Kg	1	✳	6010C	Total/NA
Lead	188		1.1	0.26	mg/Kg	1	✳	6010C	Total/NA
Manganese	443	B	0.22	0.035	mg/Kg	1	✳	6010C	Total/NA
Nickel	12.8		5.5	0.25	mg/Kg	1	✳	6010C	Total/NA
Zinc	96.8		2.2	0.70	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.23		0.021	0.0048	mg/Kg	1	✳	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-1 0.5-1

Lab Sample ID: 480-217909-1

Date Collected: 03/15/24 08:40

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 82.3

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	650	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
2-Methylphenol	2000	U	2000	240	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
3-Methylphenol	3900	U	3900	310	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
4-Methylphenol	3900	U	3900	240	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Acenaphthene	2000	U	2000	300	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Acenaphthylene	2000	U	2000	260	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Anthracene	2000	U	2000	500	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Benzo[a]anthracene	420	J	2000	200	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Benzo[a]pyrene	380	J	2000	300	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Benzo[b]fluoranthene	500	J	2000	320	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Benzo[g,h,i]perylene	290	J	2000	210	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Benzo[k]fluoranthene	2000	U	2000	260	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Chrysene	2000	U	2000	450	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Dibenz(a,h)anthracene	2000	U	2000	360	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Dibenzofuran	2000	U	2000	240	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Fluoranthene	900	J	2000	210	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Fluorene	2000	U	2000	240	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Hexachlorobenzene	2000	U	2000	270	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Indeno[1,2,3-cd]pyrene	2000	U	2000	250	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Naphthalene	2000	U	2000	260	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Pentachlorophenol	3900	U	3900	2000	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Phenanthrene	510	J	2000	300	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Phenol	2000	U	2000	310	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10
Pyrene	650	J	2000	240	ug/Kg	☆	03/15/24 16:43	03/18/24 12:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		54 - 120	03/15/24 16:43	03/18/24 12:33	10
2-Fluorobiphenyl (Surr)	87		60 - 120	03/15/24 16:43	03/18/24 12:33	10
2-Fluorophenol (Surr)	78		52 - 120	03/15/24 16:43	03/18/24 12:33	10
Nitrobenzene-d5 (Surr)	88		53 - 120	03/15/24 16:43	03/18/24 12:33	10
Phenol-d5 (Surr)	96		54 - 120	03/15/24 16:43	03/18/24 12:33	10
p-Terphenyl-d14 (Surr)	87		79 - 130	03/15/24 16:43	03/18/24 12:33	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		2.6	0.51	mg/Kg	☆	03/18/24 16:52	03/22/24 14:28	1
Barium	188		0.64	0.14	mg/Kg	☆	03/18/24 16:52	03/22/24 14:28	1
Beryllium	0.77		0.26	0.036	mg/Kg	☆	03/18/24 16:52	03/22/24 14:28	1
Cadmium	0.52		0.26	0.038	mg/Kg	☆	03/18/24 16:52	03/22/24 14:28	1
Chromium	7.5		0.64	0.26	mg/Kg	☆	03/18/24 16:52	03/25/24 18:24	1
Copper	50.0		1.3	0.27	mg/Kg	☆	03/18/24 16:52	03/25/24 18:24	1
Lead	2.9		1.3	0.31	mg/Kg	☆	03/18/24 16:52	03/25/24 18:24	1
Manganese	439	B	0.26	0.041	mg/Kg	☆	03/18/24 16:52	03/22/24 14:28	1
Nickel	16.0		6.4	0.29	mg/Kg	☆	03/18/24 16:52	03/22/24 14:28	1
Selenium	5.1	U	5.1	0.51	mg/Kg	☆	03/18/24 16:52	03/22/24 14:28	1
Silver	0.77	U	0.77	0.26	mg/Kg	☆	03/18/24 16:52	03/22/24 14:28	1
Zinc	109		2.6	0.82	mg/Kg	☆	03/18/24 16:52	03/25/24 18:24	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-1 0.5-1

Lab Sample ID: 480-217909-1

Date Collected: 03/15/24 08:40

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 82.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.025	0.0058	mg/Kg	☆	03/19/24 11:25	03/19/24 14:25	1

Client Sample ID: BH-2 1-2

Lab Sample ID: 480-217909-2

Date Collected: 03/15/24 08:55

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	630	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
2-Methylphenol	1900	U	1900	230	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
3-Methylphenol	3800	U	3800	300	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
4-Methylphenol	3800	U	3800	230	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Acenaphthene	420	J	1900	280	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Acenaphthylene	2000		1900	250	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Anthracene	3300		1900	480	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Benzo[a]anthracene	13000		1900	190	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Benzo[a]pyrene	12000		1900	280	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Benzo[b]fluoranthene	15000		1900	310	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Benzo[g,h,i]perylene	7100		1900	200	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Benzo[k]fluoranthene	5300		1900	250	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Chrysene	13000		1900	430	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Dibenz(a,h)anthracene	2100		1900	340	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Dibenzofuran	270	J	1900	230	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Fluoranthene	26000		1900	200	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Fluorene	670	J	1900	230	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Indeno[1,2,3-cd]pyrene	6100		1900	240	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Naphthalene	1900	U	1900	250	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Pentachlorophenol	3800	U	3800	1900	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Phenanthrene	12000		1900	280	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Phenol	1900	U	1900	300	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10
Pyrene	23000		1900	230	ug/Kg	☆	03/15/24 16:43	03/18/24 12:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		54 - 120	03/15/24 16:43	03/18/24 12:57	10
2-Fluorobiphenyl (Surr)	84		60 - 120	03/15/24 16:43	03/18/24 12:57	10
2-Fluorophenol (Surr)	79		52 - 120	03/15/24 16:43	03/18/24 12:57	10
Nitrobenzene-d5 (Surr)	81		53 - 120	03/15/24 16:43	03/18/24 12:57	10
Phenol-d5 (Surr)	86		54 - 120	03/15/24 16:43	03/18/24 12:57	10
p-Terphenyl-d14 (Surr)	85		79 - 130	03/15/24 16:43	03/18/24 12:57	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		2.4	0.47	mg/Kg	☆	03/18/24 16:52	03/22/24 14:32	1
Barium	221		0.59	0.13	mg/Kg	☆	03/18/24 16:52	03/22/24 14:32	1
Beryllium	0.62		0.24	0.033	mg/Kg	☆	03/18/24 16:52	03/22/24 14:32	1
Cadmium	0.56		0.24	0.036	mg/Kg	☆	03/18/24 16:52	03/22/24 14:32	1
Chromium	16.9		0.59	0.24	mg/Kg	☆	03/18/24 16:52	03/25/24 18:28	1
Copper	24.4		1.2	0.25	mg/Kg	☆	03/18/24 16:52	03/25/24 18:28	1
Lead	373		1.2	0.28	mg/Kg	☆	03/18/24 16:52	03/25/24 18:28	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-2 1-2

Lab Sample ID: 480-217909-2

Date Collected: 03/15/24 08:55

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	378	B	0.24	0.038	mg/Kg	☆	03/18/24 16:52	03/22/24 14:32	1
Nickel	16.3		5.9	0.27	mg/Kg	☆	03/18/24 16:52	03/22/24 14:32	1
Selenium	4.7	U	4.7	0.47	mg/Kg	☆	03/18/24 16:52	03/22/24 14:32	1
Silver	0.71	U	0.71	0.24	mg/Kg	☆	03/18/24 16:52	03/22/24 14:32	1
Zinc	227		2.4	0.76	mg/Kg	☆	03/18/24 16:52	03/25/24 18:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.64	F1	0.024	0.0054	mg/Kg	☆	03/19/24 11:25	03/19/24 14:26	1

Client Sample ID: BH-3 0.2-2

Lab Sample ID: 480-217909-3

Date Collected: 03/15/24 09:05

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 82.5

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	65	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
2-Methylphenol	200	U	200	24	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
3-Methylphenol	390	U	390	31	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
4-Methylphenol	390	U	390	24	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Acenaphthene	200	U	200	30	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Acenaphthylene	49	J	200	26	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Anthracene	58	J	200	50	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Benzo[a]anthracene	390		200	20	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Benzo[a]pyrene	390		200	30	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Benzo[b]fluoranthene	510		200	32	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Benzo[g,h,i]perylene	280		200	21	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Benzo[k]fluoranthene	190	J	200	26	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Chrysene	440		200	45	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Dibenz(a,h)anthracene	73	J	200	36	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Dibenzofuran	200	U	200	24	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Fluoranthene	800		200	21	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Fluorene	200	U	200	24	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Hexachlorobenzene	200	U	200	27	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Indeno[1,2,3-cd]pyrene	220		200	25	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Naphthalene	200	U	200	26	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Pentachlorophenol	390	U	390	200	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Phenanthrene	430		200	30	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Phenol	200	U	200	31	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1
Pyrene	740		200	24	ug/Kg	☆	03/15/24 16:43	03/18/24 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		54 - 120	03/15/24 16:43	03/18/24 13:22	1
2-Fluorobiphenyl (Surr)	97		60 - 120	03/15/24 16:43	03/18/24 13:22	1
2-Fluorophenol (Surr)	88		52 - 120	03/15/24 16:43	03/18/24 13:22	1
Nitrobenzene-d5 (Surr)	93		53 - 120	03/15/24 16:43	03/18/24 13:22	1
Phenol-d5 (Surr)	101		54 - 120	03/15/24 16:43	03/18/24 13:22	1
p-Terphenyl-d14 (Surr)	105		79 - 130	03/15/24 16:43	03/18/24 13:22	1

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-3 0.2-2

Lab Sample ID: 480-217909-3

Date Collected: 03/15/24 09:05

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 82.5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		2.6	0.51	mg/Kg	☆	03/18/24 16:52	03/22/24 14:35	1
Barium	175		0.64	0.14	mg/Kg	☆	03/18/24 16:52	03/22/24 14:35	1
Beryllium	0.94		0.26	0.036	mg/Kg	☆	03/18/24 16:52	03/22/24 14:35	1
Cadmium	0.41		0.26	0.039	mg/Kg	☆	03/18/24 16:52	03/22/24 14:35	1
Chromium	24.7		0.64	0.26	mg/Kg	☆	03/18/24 16:52	03/26/24 13:10	1
Copper	85.9		1.3	0.27	mg/Kg	☆	03/18/24 16:52	03/26/24 13:10	1
Lead	349		1.3	0.31	mg/Kg	☆	03/18/24 16:52	03/26/24 17:32	1
Manganese	384	B	0.26	0.041	mg/Kg	☆	03/18/24 16:52	03/22/24 14:35	1
Nickel	22.8		6.4	0.30	mg/Kg	☆	03/18/24 16:52	03/22/24 14:35	1
Selenium	5.1	U	5.1	0.51	mg/Kg	☆	03/18/24 16:52	03/22/24 14:35	1
Silver	0.77	U	0.77	0.26	mg/Kg	☆	03/18/24 16:52	03/22/24 14:35	1
Zinc	170		2.6	0.82	mg/Kg	☆	03/18/24 16:52	03/26/24 13:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.024	0.0056	mg/Kg	☆	03/19/24 11:25	03/19/24 14:31	1

Client Sample ID: BH-7 0-0.5

Lab Sample ID: 480-217909-7

Date Collected: 03/15/24 10:05

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 82.5

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	650	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
2-Methylphenol	2000	U	2000	240	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
3-Methylphenol	3900	U	3900	310	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
4-Methylphenol	3900	U	3900	240	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Acenaphthene	2000	U	2000	300	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Acenaphthylene	2000	U	2000	260	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Anthracene	2000	U	2000	500	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Benzo[a]anthracene	670	J	2000	200	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Benzo[a]pyrene	690	J	2000	300	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Benzo[b]fluoranthene	1000	J	2000	320	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Benzo[g,h,i]perylene	490	J	2000	210	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Benzo[k]fluoranthene	360	J	2000	260	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Chrysene	790	J	2000	450	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Dibenz(a,h)anthracene	2000	U	2000	360	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Dibenzofuran	2000	U	2000	240	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Fluoranthene	1600	J	2000	210	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Fluorene	2000	U	2000	240	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Hexachlorobenzene	2000	U	2000	270	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Indeno[1,2,3-cd]pyrene	440	J	2000	250	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Naphthalene	2000	U	2000	260	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Pentachlorophenol	3900	U	3900	2000	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Phenanthrene	890	J	2000	300	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Phenol	2000	U	2000	310	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10
Pyrene	1300	J	2000	240	ug/Kg	☆	03/15/24 16:43	03/18/24 13:47	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		54 - 120	03/15/24 16:43	03/18/24 13:47	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-7 0-0.5

Date Collected: 03/15/24 10:05

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-7

Matrix: Solid

Percent Solids: 82.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		60 - 120	03/15/24 16:43	03/18/24 13:47	10
2-Fluorophenol (Surr)	85		52 - 120	03/15/24 16:43	03/18/24 13:47	10
Nitrobenzene-d5 (Surr)	95		53 - 120	03/15/24 16:43	03/18/24 13:47	10
Phenol-d5 (Surr)	102		54 - 120	03/15/24 16:43	03/18/24 13:47	10
p-Terphenyl-d14 (Surr)	90		79 - 130	03/15/24 16:43	03/18/24 13:47	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.2		2.5	0.50	mg/Kg	☆	03/18/24 16:52	03/22/24 14:39	1
Barium	231		0.63	0.14	mg/Kg	☆	03/18/24 16:52	03/22/24 14:39	1
Beryllium	0.61		0.25	0.035	mg/Kg	☆	03/18/24 16:52	03/22/24 14:39	1
Cadmium	0.36		0.25	0.038	mg/Kg	☆	03/18/24 16:52	03/22/24 14:39	1
Chromium	24.7		0.63	0.25	mg/Kg	☆	03/18/24 16:52	03/25/24 18:35	1
Copper	55.2		1.3	0.26	mg/Kg	☆	03/18/24 16:52	03/25/24 18:35	1
Lead	333		1.3	0.30	mg/Kg	☆	03/18/24 16:52	03/25/24 18:35	1
Manganese	314	B	0.25	0.040	mg/Kg	☆	03/18/24 16:52	03/22/24 14:39	1
Nickel	22.1		6.3	0.29	mg/Kg	☆	03/18/24 16:52	03/22/24 14:39	1
Selenium	5.0	U	5.0	0.50	mg/Kg	☆	03/18/24 16:52	03/22/24 14:39	1
Silver	0.75	U	0.75	0.25	mg/Kg	☆	03/18/24 16:52	03/22/24 14:39	1
Zinc	229		2.5	0.80	mg/Kg	☆	03/18/24 16:52	03/25/24 18:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.024	0.0055	mg/Kg	☆	03/19/24 11:25	03/19/24 14:33	1

Client Sample ID: BH-8 1-2

Date Collected: 03/15/24 10:15

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-8

Matrix: Solid

Percent Solids: 68.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	140	U	140	79	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
2-Methylphenol	250	U	250	29	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
3-Methylphenol	480	U	480	38	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
4-Methylphenol	480	U	480	29	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Acenaphthene	250	U	250	36	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Acenaphthylene	250	U	250	32	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Anthracene	250	U	250	61	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Benzo[a]anthracene	120	J	250	25	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Benzo[a]pyrene	130	J	250	36	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Benzo[b]fluoranthene	150	J	250	39	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Benzo[g,h,i]perylene	86	J	250	26	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Benzo[k]fluoranthene	93	J	250	32	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Chrysene	130	J	250	55	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Dibenz(a,h)anthracene	250	U	250	43	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Dibenzofuran	250	U	250	29	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Fluoranthene	270		250	26	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Fluorene	250	U	250	29	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Hexachlorobenzene	250	U	250	33	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Indeno[1,2,3-cd]pyrene	79	J	250	30	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-8 1-2

Lab Sample ID: 480-217909-8

Date Collected: 03/15/24 10:15

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 68.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	250	U	250	32	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Pentachlorophenol	480	U	480	250	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Phenanthrene	110	J	250	36	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Phenol	250	U	250	38	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1
Pyrene	220	J	250	29	ug/Kg	☆	03/15/24 16:43	03/18/24 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		54 - 120	03/15/24 16:43	03/18/24 14:12	1
2-Fluorobiphenyl (Surr)	90		60 - 120	03/15/24 16:43	03/18/24 14:12	1
2-Fluorophenol (Surr)	85		52 - 120	03/15/24 16:43	03/18/24 14:12	1
Nitrobenzene-d5 (Surr)	92		53 - 120	03/15/24 16:43	03/18/24 14:12	1
Phenol-d5 (Surr)	99		54 - 120	03/15/24 16:43	03/18/24 14:12	1
p-Terphenyl-d14 (Surr)	99		79 - 130	03/15/24 16:43	03/18/24 14:12	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		2.9	0.57	mg/Kg	☆	03/18/24 16:52	03/22/24 14:42	1
Barium	183		0.71	0.16	mg/Kg	☆	03/18/24 16:52	03/22/24 14:42	1
Beryllium	0.34		0.29	0.040	mg/Kg	☆	03/18/24 16:52	03/22/24 14:42	1
Cadmium	0.76		0.29	0.043	mg/Kg	☆	03/18/24 16:52	03/22/24 14:42	1
Chromium	14.5		0.71	0.29	mg/Kg	☆	03/18/24 16:52	03/25/24 18:38	1
Copper	21.2		1.4	0.30	mg/Kg	☆	03/18/24 16:52	03/25/24 18:38	1
Lead	641		1.4	0.34	mg/Kg	☆	03/18/24 16:52	03/25/24 18:38	1
Manganese	324	B	0.29	0.046	mg/Kg	☆	03/18/24 16:52	03/22/24 14:42	1
Nickel	14.3		7.1	0.33	mg/Kg	☆	03/18/24 16:52	03/22/24 14:42	1
Selenium	5.7	U	5.7	0.57	mg/Kg	☆	03/18/24 16:52	03/22/24 14:42	1
Silver	0.86	U	0.86	0.29	mg/Kg	☆	03/18/24 16:52	03/22/24 14:42	1
Zinc	305		2.9	0.91	mg/Kg	☆	03/18/24 16:52	03/25/24 18:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.33		0.029	0.0067	mg/Kg	☆	03/19/24 11:25	03/19/24 14:34	1

Client Sample ID: BH-9 1-2

Lab Sample ID: 480-217909-9

Date Collected: 03/15/24 10:30

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 79.0

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	680	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
2-Methylphenol	2100	U	2100	250	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
3-Methylphenol	4100	U	4100	320	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
4-Methylphenol	4100	U	4100	250	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
Acenaphthene	2100	U	2100	310	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
Acenaphthylene	2100	U	2100	270	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
Anthracene	2100	U	2100	520	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
Benzo[a]anthracene	430	J	2100	210	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
Benzo[a]pyrene	470	J	2100	310	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
Benzo[b]fluoranthene	570	J	2100	330	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
Benzo[g,h,i]perylene	290	J	2100	220	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10
Benzo[k]fluoranthene	380	J	2100	270	ug/Kg	☆	03/15/24 16:43	03/18/24 14:36	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-9 1-2

Lab Sample ID: 480-217909-9

Date Collected: 03/15/24 10:30

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	530	J	2100	470	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Dibenz(a,h)anthracene	2100	U	2100	370	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Dibenzofuran	2100	U	2100	250	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Fluoranthene	1100	J	2100	220	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Fluorene	2100	U	2100	250	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Hexachlorobenzene	2100	U	2100	290	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Indeno[1,2,3-cd]pyrene	300	J	2100	260	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Naphthalene	2100	U	2100	270	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Pentachlorophenol	4100	U	4100	2100	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Phenanthrene	630	J	2100	310	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Phenol	2100	U	2100	320	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10
Pyrene	890	J	2100	250	ug/Kg	✧	03/15/24 16:43	03/18/24 14:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		54 - 120	03/15/24 16:43	03/18/24 14:36	10
2-Fluorobiphenyl (Surr)	83		60 - 120	03/15/24 16:43	03/18/24 14:36	10
2-Fluorophenol (Surr)	82		52 - 120	03/15/24 16:43	03/18/24 14:36	10
Nitrobenzene-d5 (Surr)	84		53 - 120	03/15/24 16:43	03/18/24 14:36	10
Phenol-d5 (Surr)	87		54 - 120	03/15/24 16:43	03/18/24 14:36	10
p-Terphenyl-d14 (Surr)	88		79 - 130	03/15/24 16:43	03/18/24 14:36	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17.2		2.5	0.49	mg/Kg	✧	03/18/24 16:52	03/22/24 14:46	1
Barium	1100		0.61	0.14	mg/Kg	✧	03/18/24 16:52	03/22/24 14:46	1
Beryllium	0.45		0.25	0.034	mg/Kg	✧	03/18/24 16:52	03/22/24 14:46	1
Cadmium	1.3		0.25	0.037	mg/Kg	✧	03/18/24 16:52	03/22/24 14:46	1
Chromium	38.0		0.61	0.25	mg/Kg	✧	03/18/24 16:52	03/25/24 18:42	1
Copper	90.6		1.2	0.26	mg/Kg	✧	03/18/24 16:52	03/25/24 18:42	1
Lead	1570		1.2	0.29	mg/Kg	✧	03/18/24 16:52	03/25/24 18:42	1
Manganese	258	B	0.25	0.039	mg/Kg	✧	03/18/24 16:52	03/22/24 14:46	1
Nickel	36.1		6.1	0.28	mg/Kg	✧	03/18/24 16:52	03/22/24 14:46	1
Selenium	0.51	J	4.9	0.49	mg/Kg	✧	03/18/24 16:52	03/22/24 14:46	1
Silver	1.1		0.74	0.25	mg/Kg	✧	03/18/24 16:52	03/22/24 14:46	1
Zinc	961		2.5	0.79	mg/Kg	✧	03/18/24 16:52	03/25/24 18:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.026	0.0060	mg/Kg	✧	03/19/24 11:25	03/19/24 14:38	1

Client Sample ID: BH-10 0.5-1.5

Lab Sample ID: 480-217909-10

Date Collected: 03/15/24 10:45

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	590	ug/Kg	✧	03/15/24 16:43	03/18/24 15:02	10
2-Methylphenol	1800	U	1800	210	ug/Kg	✧	03/15/24 16:43	03/18/24 15:02	10
3-Methylphenol	3500	U	3500	280	ug/Kg	✧	03/15/24 16:43	03/18/24 15:02	10
4-Methylphenol	3500	U	3500	210	ug/Kg	✧	03/15/24 16:43	03/18/24 15:02	10
Acenaphthene	1800	U	1800	270	ug/Kg	✧	03/15/24 16:43	03/18/24 15:02	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-10 0.5-1.5

Lab Sample ID: 480-217909-10

Date Collected: 03/15/24 10:45

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	1800	U	1800	240	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Anthracene	1800	U	1800	450	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Benzo[a]anthracene	1800	U	1800	180	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Benzo[a]pyrene	1800	U	1800	270	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Benzo[b]fluoranthene	1800	U	1800	290	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Benzo[g,h,i]perylene	1800	U	1800	190	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Benzo[k]fluoranthene	1800	U	1800	240	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Chrysene	1800	U	1800	410	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Dibenz(a,h)anthracene	1800	U	1800	320	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Dibenzofuran	1800	U	1800	210	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Fluoranthene	1800	U	1800	190	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Fluorene	1800	U	1800	210	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Hexachlorobenzene	1800	U	1800	250	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Indeno[1,2,3-cd]pyrene	1800	U	1800	220	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Naphthalene	1800	U	1800	240	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Pentachlorophenol	3500	U	3500	1800	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Phenanthrene	1800	U	1800	270	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Phenol	1800	U	1800	280	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10
Pyrene	1800	U	1800	210	ug/Kg	☆	03/15/24 16:43	03/18/24 15:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		54 - 120	03/15/24 16:43	03/18/24 15:02	10
2-Fluorobiphenyl (Surr)	83		60 - 120	03/15/24 16:43	03/18/24 15:02	10
2-Fluorophenol (Surr)	72		52 - 120	03/15/24 16:43	03/18/24 15:02	10
Nitrobenzene-d5 (Surr)	81		53 - 120	03/15/24 16:43	03/18/24 15:02	10
Phenol-d5 (Surr)	87		54 - 120	03/15/24 16:43	03/18/24 15:02	10
p-Terphenyl-d14 (Surr)	82		79 - 130	03/15/24 16:43	03/18/24 15:02	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.4		2.2	0.44	mg/Kg	☆	03/18/24 16:52	03/22/24 14:50	1
Barium	54.4		0.55	0.12	mg/Kg	☆	03/18/24 16:52	03/22/24 14:50	1
Beryllium	0.21	J	0.22	0.031	mg/Kg	☆	03/18/24 16:52	03/22/24 14:50	1
Cadmium	0.44		0.22	0.033	mg/Kg	☆	03/18/24 16:52	03/22/24 14:50	1
Chromium	9.3		0.55	0.22	mg/Kg	☆	03/18/24 16:52	03/25/24 18:55	1
Copper	26.8		1.1	0.23	mg/Kg	☆	03/18/24 16:52	03/25/24 18:55	1
Lead	51.5		1.1	0.26	mg/Kg	☆	03/18/24 16:52	03/25/24 18:55	1
Manganese	209	B	0.22	0.035	mg/Kg	☆	03/18/24 16:52	03/22/24 14:50	1
Nickel	12.3		5.5	0.25	mg/Kg	☆	03/18/24 16:52	03/22/24 14:50	1
Selenium	4.4	U	4.4	0.44	mg/Kg	☆	03/18/24 16:52	03/22/24 14:50	1
Silver	0.37	J	0.65	0.22	mg/Kg	☆	03/18/24 16:52	03/22/24 14:50	1
Zinc	89.8		2.2	0.70	mg/Kg	☆	03/18/24 16:52	03/25/24 18:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.021	0.0048	mg/Kg	☆	03/19/24 11:25	03/19/24 14:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-12 0.5-1

Lab Sample ID: 480-217909-12

Date Collected: 03/15/24 11:15

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	620	U	620	340	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
2-Methylphenol	1000	U	1000	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
3-Methylphenol	2000	U	2000	160	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
4-Methylphenol	2000	U	2000	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Acenaphthene	1000	U	1000	150	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Acenaphthylene	1000	U	1000	140	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Anthracene	1000	U	1000	260	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Benzo[a]anthracene	340	J	1000	100	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Benzo[a]pyrene	330	J	1000	150	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Benzo[b]fluoranthene	420	J	1000	170	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Benzo[g,h,i]perylene	250	J	1000	110	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Benzo[k]fluoranthene	200	J	1000	140	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Chrysene	350	J	1000	230	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Dibenz(a,h)anthracene	1000	U	1000	180	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Dibenzofuran	1000	U	1000	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Fluoranthene	790	J	1000	110	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Fluorene	1000	U	1000	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Hexachlorobenzene	1000	U	1000	140	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Indeno[1,2,3-cd]pyrene	200	J	1000	130	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Naphthalene	1000	U	1000	140	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Pentachlorophenol	2000	U	2000	1000	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Phenanthrene	390	J	1000	150	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Phenol	1000	U	1000	160	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5
Pyrene	620	J	1000	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		54 - 120	03/15/24 16:43	03/18/24 15:27	5
2-Fluorobiphenyl (Surr)	76		60 - 120	03/15/24 16:43	03/18/24 15:27	5
2-Fluorophenol (Surr)	70		52 - 120	03/15/24 16:43	03/18/24 15:27	5
Nitrobenzene-d5 (Surr)	75		53 - 120	03/15/24 16:43	03/18/24 15:27	5
Phenol-d5 (Surr)	77		54 - 120	03/15/24 16:43	03/18/24 15:27	5
p-Terphenyl-d14 (Surr)	86		79 - 130	03/15/24 16:43	03/18/24 15:27	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		2.5	0.49	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Barium	184		0.61	0.14	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Beryllium	0.79		0.25	0.034	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Cadmium	0.41		0.25	0.037	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Chromium	24.7		0.61	0.25	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Copper	29.9		1.2	0.26	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Lead	359		1.2	0.29	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Manganese	548	B	0.25	0.039	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Nickel	23.1		6.1	0.28	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Selenium	4.9	U	4.9	0.49	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Silver	0.74	U	0.74	0.25	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1
Zinc	177		2.5	0.79	mg/Kg	☆	03/18/24 16:52	03/27/24 15:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-12 0.5-1

Lab Sample ID: 480-217909-12

Date Collected: 03/15/24 11:15

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 80.4

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.39		0.021	0.0048	mg/Kg	☆	03/19/24 11:25	03/19/24 14:40	1

Client Sample ID: BH-13 0.5-1

Lab Sample ID: 480-217909-13

Date Collected: 03/15/24 11:20

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	580	U	580	320	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
2-Methylphenol	990	U	990	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
3-Methylphenol	1900	U	1900	150	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
4-Methylphenol	1900	U	1900	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Acenaphthene	990	U	990	150	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Acenaphthylene	990	U	990	130	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Anthracene	990	U	990	240	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Benzo[a]anthracene	110	J	990	99	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Benzo[a]pyrene	990	U	990	150	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Benzo[b]fluoranthene	990	U	990	160	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Benzo[g,h,i]perylene	990	U	990	100	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Benzo[k]fluoranthene	990	U	990	130	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Chrysene	990	U	990	220	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Dibenz(a,h)anthracene	990	U	990	170	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Dibenzofuran	990	U	990	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Fluoranthene	280	J	990	100	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Fluorene	990	U	990	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Hexachlorobenzene	990	U	990	130	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Indeno[1,2,3-cd]pyrene	990	U	990	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Naphthalene	990	U	990	130	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Pentachlorophenol	1900	U	1900	990	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Phenanthrene	150	J	990	150	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Phenol	990	U	990	150	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5
Pyrene	230	J	990	120	ug/Kg	☆	03/15/24 16:43	03/18/24 15:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		54 - 120	03/15/24 16:43	03/18/24 15:53	5
2-Fluorobiphenyl (Surr)	82		60 - 120	03/15/24 16:43	03/18/24 15:53	5
2-Fluorophenol (Surr)	82		52 - 120	03/15/24 16:43	03/18/24 15:53	5
Nitrobenzene-d5 (Surr)	79		53 - 120	03/15/24 16:43	03/18/24 15:53	5
Phenol-d5 (Surr)	87		54 - 120	03/15/24 16:43	03/18/24 15:53	5
p-Terphenyl-d14 (Surr)	85		79 - 130	03/15/24 16:43	03/18/24 15:53	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		2.4	0.47	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Barium	128		0.59	0.13	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Beryllium	0.73		0.24	0.033	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Cadmium	0.21	J	0.24	0.035	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Chromium	23.7		0.59	0.24	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Copper	16.2		1.2	0.25	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Lead	237		1.2	0.28	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-13 0.5-1

Lab Sample ID: 480-217909-13

Date Collected: 03/15/24 11:20

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	380	B	0.24	0.038	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Nickel	19.0		5.9	0.27	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Selenium	4.7	U	4.7	0.47	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Silver	0.71	U	0.71	0.24	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1
Zinc	104		2.4	0.75	mg/Kg	☆	03/18/24 16:52	03/27/24 15:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.023	0.0053	mg/Kg	☆	03/19/24 11:25	03/19/24 14:42	1

Client Sample ID: BH-14 0.5-1

Lab Sample ID: 480-217909-14

Date Collected: 03/15/24 11:40

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2200	U	2200	1200	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
2-Methylphenol	3700	U	3700	440	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
3-Methylphenol	7300	U	7300	570	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
4-Methylphenol	7300	U	7300	440	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Acenaphthene	3700	U	3700	550	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Acenaphthylene	3700	U	3700	480	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Anthracene	3700	U	3700	930	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Benzo[a]anthracene	470	J	3700	370	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Benzo[a]pyrene	3700	U	3700	550	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Benzo[b]fluoranthene	3700	U	3700	600	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Benzo[g,h,i]perylene	400	J	3700	400	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Benzo[k]fluoranthene	3700	U	3700	480	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Chrysene	3700	U	3700	840	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Dibenz(a,h)anthracene	3700	U	3700	660	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Dibenzofuran	3700	U	3700	440	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Fluoranthene	1100	J	3700	400	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Fluorene	3700	U	3700	440	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Hexachlorobenzene	3700	U	3700	510	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Indeno[1,2,3-cd]pyrene	3700	U	3700	460	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Naphthalene	3700	U	3700	480	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Pentachlorophenol	7300	U	7300	3700	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Phenanthrene	630	J	3700	550	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Phenol	3700	U	3700	570	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20
Pyrene	840	J	3700	440	ug/Kg	☆	03/15/24 16:43	03/18/24 16:19	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		54 - 120	03/15/24 16:43	03/18/24 16:19	20
2-Fluorobiphenyl (Surr)	71		60 - 120	03/15/24 16:43	03/18/24 16:19	20
2-Fluorophenol (Surr)	75		52 - 120	03/15/24 16:43	03/18/24 16:19	20
Nitrobenzene-d5 (Surr)	73		53 - 120	03/15/24 16:43	03/18/24 16:19	20
Phenol-d5 (Surr)	77		54 - 120	03/15/24 16:43	03/18/24 16:19	20
p-Terphenyl-d14 (Surr)	72	S1-	79 - 130	03/15/24 16:43	03/18/24 16:19	20

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-14 0.5-1

Lab Sample ID: 480-217909-14

Date Collected: 03/15/24 11:40

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 89.6

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		2.2	0.44	mg/Kg	✱	03/18/24 16:52	03/22/24 15:11	1
Barium	81.7		0.55	0.12	mg/Kg	✱	03/18/24 16:52	03/22/24 15:11	1
Beryllium	0.30		0.22	0.031	mg/Kg	✱	03/18/24 16:52	03/22/24 15:11	1
Cadmium	0.35		0.22	0.033	mg/Kg	✱	03/18/24 16:52	03/22/24 15:11	1
Chromium	17.6		0.55	0.22	mg/Kg	✱	03/18/24 16:52	03/25/24 18:59	1
Copper	16.1		1.1	0.23	mg/Kg	✱	03/18/24 16:52	03/25/24 18:59	1
Lead	188		1.1	0.26	mg/Kg	✱	03/18/24 16:52	03/25/24 18:59	1
Manganese	443 B		0.22	0.035	mg/Kg	✱	03/18/24 16:52	03/22/24 15:11	1
Nickel	12.8		5.5	0.25	mg/Kg	✱	03/18/24 16:52	03/22/24 15:11	1
Selenium	4.4	U	4.4	0.44	mg/Kg	✱	03/18/24 16:52	03/22/24 15:11	1
Silver	0.66	U	0.66	0.22	mg/Kg	✱	03/18/24 16:52	03/22/24 15:11	1
Zinc	96.8		2.2	0.70	mg/Kg	✱	03/18/24 16:52	03/25/24 18:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.021	0.0048	mg/Kg	✱	03/19/24 11:25	03/19/24 14:43	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

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)
480-217909-1	BH-1 0.5-1	69	87	78	88	96	87
480-217909-2	BH-2 1-2	66	84	79	81	86	85
480-217909-3	BH-3 0.2-2	83	97	88	93	101	105
480-217909-7	BH-7 0-0.5	74	88	85	95	102	90
480-217909-8	BH-8 1-2	81	90	85	92	99	99
480-217909-9	BH-9 1-2	63	83	82	84	87	88
480-217909-10	BH-10 0.5-1.5	69	83	72	81	87	82
480-217909-12	BH-12 0.5-1	68	76	70	75	77	86
480-217909-13	BH-13 0.5-1	65	82	82	79	87	85
480-217909-14	BH-14 0.5-1	67	71	75	73	77	72 S1-
LCS 480-704027/2-A	Lab Control Sample	88	95	87	94	94	102
MB 480-704027/1-A	Method Blank	83	95	88	100	96	104

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)

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

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

Lab Sample ID: MB 480-704027/1-A

Matrix: Solid

Analysis Batch: 704112

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 704027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	99	U	99	55	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
2-Methylphenol	170	U	170	20	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
3-Methylphenol	330	U	330	26	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
4-Methylphenol	330	U	330	20	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Acenaphthene	170	U	170	25	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Acenaphthylene	170	U	170	22	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Anthracene	170	U	170	42	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Chrysene	170	U	170	38	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Dibenzofuran	170	U	170	20	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Fluoranthene	170	U	170	18	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Fluorene	170	U	170	20	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Hexachlorobenzene	170	U	170	23	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Naphthalene	170	U	170	22	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Pentachlorophenol	330	U	330	170	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Phenanthrene	170	U	170	25	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Phenol	170	U	170	26	ug/Kg		03/15/24 16:43	03/18/24 10:29	1
Pyrene	170	U	170	20	ug/Kg		03/15/24 16:43	03/18/24 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		54 - 120	03/15/24 16:43	03/18/24 10:29	1
2-Fluorobiphenyl (Surr)	95		60 - 120	03/15/24 16:43	03/18/24 10:29	1
2-Fluorophenol (Surr)	88		52 - 120	03/15/24 16:43	03/18/24 10:29	1
Nitrobenzene-d5 (Surr)	100		53 - 120	03/15/24 16:43	03/18/24 10:29	1
Phenol-d5 (Surr)	96		54 - 120	03/15/24 16:43	03/18/24 10:29	1
p-Terphenyl-d14 (Surr)	104		79 - 130	03/15/24 16:43	03/18/24 10:29	1

Lab Sample ID: LCS 480-704027/2-A

Matrix: Solid

Analysis Batch: 704112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 704027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1650	777		ug/Kg		47	23 - 120
2-Methylphenol	1650	1570		ug/Kg		95	54 - 120
3-Methylphenol	1650	1610		ug/Kg		97	55 - 120
4-Methylphenol	1650	1610		ug/Kg		98	55 - 120
Acenaphthene	1650	1530		ug/Kg		93	62 - 120
Acenaphthylene	1650	1580		ug/Kg		96	58 - 121
Anthracene	1650	1660		ug/Kg		101	62 - 120
Benzo[a]anthracene	1650	1620		ug/Kg		98	65 - 120
Benzo[a]pyrene	1650	1590		ug/Kg		96	64 - 120
Benzo[b]fluoranthene	1650	1650		ug/Kg		100	64 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

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

Lab Sample ID: LCS 480-704027/2-A

Matrix: Solid

Analysis Batch: 704112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 704027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	1650	1430		ug/Kg		86	45 - 145
Benzo[k]fluoranthene	1650	1630		ug/Kg		99	65 - 120
Chrysene	1650	1550		ug/Kg		94	64 - 120
Dibenz(a,h)anthracene	1650	1470		ug/Kg		89	54 - 132
Dibenzofuran	1650	1520		ug/Kg		92	63 - 120
Fluoranthene	1650	1630		ug/Kg		99	62 - 120
Fluorene	1650	1600		ug/Kg		97	63 - 120
Hexachlorobenzene	1650	1430		ug/Kg		86	60 - 120
Indeno[1,2,3-cd]pyrene	1650	1490		ug/Kg		90	56 - 134
Naphthalene	1650	1460		ug/Kg		88	55 - 120
Pentachlorophenol	3300	3330		ug/Kg		101	10 - 120
Phenanthrene	1650	1660		ug/Kg		100	60 - 120
Phenol	1650	1460		ug/Kg		88	53 - 120
Pyrene	1650	1730		ug/Kg		104	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		54 - 120
2-Fluorobiphenyl (Surr)	95		60 - 120
2-Fluorophenol (Surr)	87		52 - 120
Nitrobenzene-d5 (Surr)	94		53 - 120
Phenol-d5 (Surr)	94		54 - 120
p-Terphenyl-d14 (Surr)	102		79 - 130

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-704199/1-A

Matrix: Solid

Analysis Batch: 704890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 704199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1	U	2.1	0.42	mg/Kg		03/18/24 16:52	03/22/24 14:10	1
Barium	0.53	U	0.53	0.12	mg/Kg		03/18/24 16:52	03/22/24 14:10	1
Beryllium	0.21	U	0.21	0.029	mg/Kg		03/18/24 16:52	03/22/24 14:10	1
Cadmium	0.21	U	0.21	0.032	mg/Kg		03/18/24 16:52	03/22/24 14:10	1
Manganese	0.0663	J	0.21	0.034	mg/Kg		03/18/24 16:52	03/22/24 14:10	1
Nickel	5.3	U	5.3	0.24	mg/Kg		03/18/24 16:52	03/22/24 14:10	1
Selenium	4.2	U	4.2	0.42	mg/Kg		03/18/24 16:52	03/22/24 14:10	1
Silver	0.63	U	0.63	0.21	mg/Kg		03/18/24 16:52	03/22/24 14:10	1

Lab Sample ID: MB 480-704199/1-A

Matrix: Solid

Analysis Batch: 705042

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 704199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1	U	2.1	0.42	mg/Kg		03/18/24 16:52	03/25/24 18:14	1
Barium	0.53	U	0.53	0.12	mg/Kg		03/18/24 16:52	03/25/24 18:14	1
Beryllium	0.21	U	0.21	0.029	mg/Kg		03/18/24 16:52	03/25/24 18:14	1
Cadmium	0.21	U	0.21	0.032	mg/Kg		03/18/24 16:52	03/25/24 18:14	1
Chromium	0.53	U	0.53	0.21	mg/Kg		03/18/24 16:52	03/25/24 18:14	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

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

Lab Sample ID: MB 480-704199/1-A

Matrix: Solid

Analysis Batch: 705042

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 704199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.1	U	1.1	0.22	mg/Kg		03/18/24 16:52	03/25/24 18:14	1
Lead	1.1	U	1.1	0.25	mg/Kg		03/18/24 16:52	03/25/24 18:14	1
Manganese	0.0548	J	0.21	0.034	mg/Kg		03/18/24 16:52	03/25/24 18:14	1
Nickel	5.3	U	5.3	0.24	mg/Kg		03/18/24 16:52	03/25/24 18:14	1
Silver	0.63	U	0.63	0.21	mg/Kg		03/18/24 16:52	03/25/24 18:14	1
Zinc	2.1	U	2.1	0.67	mg/Kg		03/18/24 16:52	03/25/24 18:14	1

Lab Sample ID: LCSSRM 480-704199/2-A

Matrix: Solid

Analysis Batch: 704890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 704199

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	218	168.3		mg/Kg		77.2	57.8 - 110.1
Barium	388	330.3		mg/Kg		85.1	68.3 - 113.9
Beryllium	165	136.8		mg/Kg		82.9	69.1 - 115.8
Cadmium	118	101.3		mg/Kg		85.9	67.0 - 111.9
Manganese	446	383.0		mg/Kg		85.9	70.4 - 114.3
Nickel	120	112.5		mg/Kg		93.8	63.2 - 117.5
Selenium	107	89.73		mg/Kg		83.9	58.3 - 121.5
Silver	51.0	45.07		mg/Kg		88.4	64.7 - 120.8

Lab Sample ID: LCSSRM 480-704199/2-A

Matrix: Solid

Analysis Batch: 705042

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 704199

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	218	173.3		mg/Kg		79.5	57.8 - 110.1
Barium	388	346.6		mg/Kg		89.3	68.3 - 113.9
Beryllium	165	151.0		mg/Kg		91.5	69.1 - 115.8
Cadmium	118	102.7		mg/Kg		87.0	67.0 - 111.9
Chromium	255	225.7		mg/Kg		88.5	63.5 - 118.4
Copper	135	120.9		mg/Kg		89.5	69.0 - 114.8
Lead	155	153.4		mg/Kg		99.0	67.7 - 119.4
Manganese	446	387.7		mg/Kg		86.9	70.4 - 114.3
Nickel	120	115.1		mg/Kg		95.9	63.2 - 117.5
Silver	51.0	44.85		mg/Kg		87.9	64.7 - 120.8

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

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

Lab Sample ID: LCSSRM 480-704199/2-A
Matrix: Solid
Analysis Batch: 705042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 704199

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	406	350.9		mg/Kg		86.4	63.8 - 118.2

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-704260/1-A
Matrix: Solid
Analysis Batch: 704336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 704260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.0043	mg/Kg		03/19/24 11:25	03/19/24 15:35	1

Lab Sample ID: LCSSRM 480-704260/2-A ^10
Matrix: Solid
Analysis Batch: 704336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 704260

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	17.1	10.06		mg/Kg		58.9	36.0 - 109.9

Lab Sample ID: 480-217909-2 MS
Matrix: Solid
Analysis Batch: 704336

Client Sample ID: BH-2 1-2
Prep Type: Total/NA
Prep Batch: 704260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.64	F1	0.355	1.17	F1	mg/Kg	✱	150	80 - 120

Lab Sample ID: 480-217909-2 MSD
Matrix: Solid
Analysis Batch: 704336

Client Sample ID: BH-2 1-2
Prep Type: Total/NA
Prep Batch: 704260

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.64	F1	0.389	1.18	F1	mg/Kg	✱	138	80 - 120	0	20

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

GC/MS Semi VOA

Prep Batch: 704027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-1	BH-1 0.5-1	Total/NA	Solid	3550C	
480-217909-2	BH-2 1-2	Total/NA	Solid	3550C	
480-217909-3	BH-3 0.2-2	Total/NA	Solid	3550C	
480-217909-7	BH-7 0-0.5	Total/NA	Solid	3550C	
480-217909-8	BH-8 1-2	Total/NA	Solid	3550C	
480-217909-9	BH-9 1-2	Total/NA	Solid	3550C	
480-217909-10	BH-10 0.5-1.5	Total/NA	Solid	3550C	
480-217909-12	BH-12 0.5-1	Total/NA	Solid	3550C	
480-217909-13	BH-13 0.5-1	Total/NA	Solid	3550C	
480-217909-14	BH-14 0.5-1	Total/NA	Solid	3550C	
MB 480-704027/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-704027/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 704112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-1	BH-1 0.5-1	Total/NA	Solid	8270D	704027
480-217909-2	BH-2 1-2	Total/NA	Solid	8270D	704027
480-217909-3	BH-3 0.2-2	Total/NA	Solid	8270D	704027
480-217909-7	BH-7 0-0.5	Total/NA	Solid	8270D	704027
480-217909-8	BH-8 1-2	Total/NA	Solid	8270D	704027
480-217909-9	BH-9 1-2	Total/NA	Solid	8270D	704027
480-217909-10	BH-10 0.5-1.5	Total/NA	Solid	8270D	704027
480-217909-12	BH-12 0.5-1	Total/NA	Solid	8270D	704027
480-217909-13	BH-13 0.5-1	Total/NA	Solid	8270D	704027
480-217909-14	BH-14 0.5-1	Total/NA	Solid	8270D	704027
MB 480-704027/1-A	Method Blank	Total/NA	Solid	8270D	704027
LCS 480-704027/2-A	Lab Control Sample	Total/NA	Solid	8270D	704027

Metals

Prep Batch: 704199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-1	BH-1 0.5-1	Total/NA	Solid	3050B	
480-217909-2	BH-2 1-2	Total/NA	Solid	3050B	
480-217909-3	BH-3 0.2-2	Total/NA	Solid	3050B	
480-217909-7	BH-7 0-0.5	Total/NA	Solid	3050B	
480-217909-8	BH-8 1-2	Total/NA	Solid	3050B	
480-217909-9	BH-9 1-2	Total/NA	Solid	3050B	
480-217909-10	BH-10 0.5-1.5	Total/NA	Solid	3050B	
480-217909-12	BH-12 0.5-1	Total/NA	Solid	3050B	
480-217909-13	BH-13 0.5-1	Total/NA	Solid	3050B	
480-217909-14	BH-14 0.5-1	Total/NA	Solid	3050B	
MB 480-704199/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-704199/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 704260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-1	BH-1 0.5-1	Total/NA	Solid	7471B	
480-217909-2	BH-2 1-2	Total/NA	Solid	7471B	
480-217909-3	BH-3 0.2-2	Total/NA	Solid	7471B	
480-217909-7	BH-7 0-0.5	Total/NA	Solid	7471B	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Metals (Continued)

Prep Batch: 704260 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-8	BH-8 1-2	Total/NA	Solid	7471B	
480-217909-9	BH-9 1-2	Total/NA	Solid	7471B	
480-217909-10	BH-10 0.5-1.5	Total/NA	Solid	7471B	
480-217909-12	BH-12 0.5-1	Total/NA	Solid	7471B	
480-217909-13	BH-13 0.5-1	Total/NA	Solid	7471B	
480-217909-14	BH-14 0.5-1	Total/NA	Solid	7471B	
MB 480-704260/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-704260/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-217909-2 MS	BH-2 1-2	Total/NA	Solid	7471B	
480-217909-2 MSD	BH-2 1-2	Total/NA	Solid	7471B	

Analysis Batch: 704336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-1	BH-1 0.5-1	Total/NA	Solid	7471B	704260
480-217909-2	BH-2 1-2	Total/NA	Solid	7471B	704260
480-217909-3	BH-3 0.2-2	Total/NA	Solid	7471B	704260
480-217909-7	BH-7 0-0.5	Total/NA	Solid	7471B	704260
480-217909-8	BH-8 1-2	Total/NA	Solid	7471B	704260
480-217909-9	BH-9 1-2	Total/NA	Solid	7471B	704260
480-217909-10	BH-10 0.5-1.5	Total/NA	Solid	7471B	704260
480-217909-12	BH-12 0.5-1	Total/NA	Solid	7471B	704260
480-217909-13	BH-13 0.5-1	Total/NA	Solid	7471B	704260
480-217909-14	BH-14 0.5-1	Total/NA	Solid	7471B	704260
MB 480-704260/1-A	Method Blank	Total/NA	Solid	7471B	704260
LCSSRM 480-704260/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	704260
480-217909-2 MS	BH-2 1-2	Total/NA	Solid	7471B	704260
480-217909-2 MSD	BH-2 1-2	Total/NA	Solid	7471B	704260

Analysis Batch: 704890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-1	BH-1 0.5-1	Total/NA	Solid	6010C	704199
480-217909-2	BH-2 1-2	Total/NA	Solid	6010C	704199
480-217909-3	BH-3 0.2-2	Total/NA	Solid	6010C	704199
480-217909-7	BH-7 0-0.5	Total/NA	Solid	6010C	704199
480-217909-8	BH-8 1-2	Total/NA	Solid	6010C	704199
480-217909-9	BH-9 1-2	Total/NA	Solid	6010C	704199
480-217909-10	BH-10 0.5-1.5	Total/NA	Solid	6010C	704199
480-217909-14	BH-14 0.5-1	Total/NA	Solid	6010C	704199
MB 480-704199/1-A	Method Blank	Total/NA	Solid	6010C	704199
LCSSRM 480-704199/2-A	Lab Control Sample	Total/NA	Solid	6010C	704199

Analysis Batch: 705042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-1	BH-1 0.5-1	Total/NA	Solid	6010C	704199
480-217909-2	BH-2 1-2	Total/NA	Solid	6010C	704199
480-217909-7	BH-7 0-0.5	Total/NA	Solid	6010C	704199
480-217909-8	BH-8 1-2	Total/NA	Solid	6010C	704199
480-217909-9	BH-9 1-2	Total/NA	Solid	6010C	704199
480-217909-10	BH-10 0.5-1.5	Total/NA	Solid	6010C	704199
480-217909-14	BH-14 0.5-1	Total/NA	Solid	6010C	704199
MB 480-704199/1-A	Method Blank	Total/NA	Solid	6010C	704199

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Metals (Continued)

Analysis Batch: 705042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 480-704199/2-A	Lab Control Sample	Total/NA	Solid	6010C	704199

Analysis Batch: 705101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-3	BH-3 0.2-2	Total/NA	Solid	6010C	704199

Analysis Batch: 705182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-3	BH-3 0.2-2	Total/NA	Solid	6010C	704199

Analysis Batch: 705281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-12	BH-12 0.5-1	Total/NA	Solid	6010C	704199
480-217909-13	BH-13 0.5-1	Total/NA	Solid	6010C	704199

General Chemistry

Analysis Batch: 704090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217909-1	BH-1 0.5-1	Total/NA	Solid	Moisture	
480-217909-2	BH-2 1-2	Total/NA	Solid	Moisture	
480-217909-3	BH-3 0.2-2	Total/NA	Solid	Moisture	
480-217909-7	BH-7 0-0.5	Total/NA	Solid	Moisture	
480-217909-8	BH-8 1-2	Total/NA	Solid	Moisture	
480-217909-9	BH-9 1-2	Total/NA	Solid	Moisture	
480-217909-10	BH-10 0.5-1.5	Total/NA	Solid	Moisture	
480-217909-12	BH-12 0.5-1	Total/NA	Solid	Moisture	
480-217909-13	BH-13 0.5-1	Total/NA	Solid	Moisture	
480-217909-14	BH-14 0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-1 0.5-1

Date Collected: 03/15/24 08:40

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Client Sample ID: BH-1 0.5-1

Date Collected: 03/15/24 08:40

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-1

Matrix: Solid

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		10	704112	JMM	EET BUF	03/18/24 12:33
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	704890	BMB	EET BUF	03/22/24 14:28
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705042	NZG	EET BUF	03/25/24 18:24
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:25

Client Sample ID: BH-2 1-2

Date Collected: 03/15/24 08:55

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Client Sample ID: BH-2 1-2

Date Collected: 03/15/24 08:55

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-2

Matrix: Solid

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		10	704112	JMM	EET BUF	03/18/24 12:57
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	704890	BMB	EET BUF	03/22/24 14:32
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705042	NZG	EET BUF	03/25/24 18:28
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:26

Client Sample ID: BH-3 0.2-2

Date Collected: 03/15/24 09:05

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-3 0.2-2

Lab Sample ID: 480-217909-3

Date Collected: 03/15/24 09:05

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		1	704112	JMM	EET BUF	03/18/24 13:22
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	704890	BMB	EET BUF	03/22/24 14:35
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705101	BMB	EET BUF	03/26/24 13:10
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705182	BMB	EET BUF	03/26/24 17:32
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:31

Client Sample ID: BH-7 0-0.5

Lab Sample ID: 480-217909-7

Date Collected: 03/15/24 10:05

Matrix: Solid

Date Received: 03/15/24 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Client Sample ID: BH-7 0-0.5

Lab Sample ID: 480-217909-7

Date Collected: 03/15/24 10:05

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		10	704112	JMM	EET BUF	03/18/24 13:47
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	704890	BMB	EET BUF	03/22/24 14:39
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705042	NZG	EET BUF	03/25/24 18:35
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:33

Client Sample ID: BH-8 1-2

Lab Sample ID: 480-217909-8

Date Collected: 03/15/24 10:15

Matrix: Solid

Date Received: 03/15/24 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Client Sample ID: BH-8 1-2

Lab Sample ID: 480-217909-8

Date Collected: 03/15/24 10:15

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 68.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		1	704112	JMM	EET BUF	03/18/24 14:12

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-8 1-2

Date Collected: 03/15/24 10:15

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-8

Matrix: Solid

Percent Solids: 68.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	704890	BMB	EET BUF	03/22/24 14:42
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705042	NZG	EET BUF	03/25/24 18:38
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:34

Client Sample ID: BH-9 1-2

Date Collected: 03/15/24 10:30

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Client Sample ID: BH-9 1-2

Date Collected: 03/15/24 10:30

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-9

Matrix: Solid

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		10	704112	JMM	EET BUF	03/18/24 14:36
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	704890	BMB	EET BUF	03/22/24 14:46
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705042	NZG	EET BUF	03/25/24 18:42
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:38

Client Sample ID: BH-10 0.5-1.5

Date Collected: 03/15/24 10:45

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Client Sample ID: BH-10 0.5-1.5

Date Collected: 03/15/24 10:45

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-10

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		10	704112	JMM	EET BUF	03/18/24 15:02
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	704890	BMB	EET BUF	03/22/24 14:50
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705042	NZG	EET BUF	03/25/24 18:55

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-10 0.5-1.5

Lab Sample ID: 480-217909-10

Date Collected: 03/15/24 10:45

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:39

Client Sample ID: BH-12 0.5-1

Lab Sample ID: 480-217909-12

Date Collected: 03/15/24 11:15

Matrix: Solid

Date Received: 03/15/24 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Client Sample ID: BH-12 0.5-1

Lab Sample ID: 480-217909-12

Date Collected: 03/15/24 11:15

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		5	704112	JMM	EET BUF	03/18/24 15:27
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705281	BMB	EET BUF	03/27/24 15:01
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:40

Client Sample ID: BH-13 0.5-1

Lab Sample ID: 480-217909-13

Date Collected: 03/15/24 11:20

Matrix: Solid

Date Received: 03/15/24 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Client Sample ID: BH-13 0.5-1

Lab Sample ID: 480-217909-13

Date Collected: 03/15/24 11:20

Matrix: Solid

Date Received: 03/15/24 14:30

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		5	704112	JMM	EET BUF	03/18/24 15:53
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705281	BMB	EET BUF	03/27/24 15:05
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:42

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-217909-1

Client Sample ID: BH-14 0.5-1

Date Collected: 03/15/24 11:40

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	704090	DSC	EET BUF	03/17/24 14:22

Client Sample ID: BH-14 0.5-1

Date Collected: 03/15/24 11:40

Date Received: 03/15/24 14:30

Lab Sample ID: 480-217909-14

Matrix: Solid

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			704027	SJM	EET BUF	03/15/24 16:43
Total/NA	Analysis	8270D		20	704112	JMM	EET BUF	03/18/24 16:19
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	704890	BMB	EET BUF	03/22/24 15:11
Total/NA	Prep	3050B			704199	ESB	EET BUF	03/18/24 16:52
Total/NA	Analysis	6010C		1	705042	NZG	EET BUF	03/25/24 18:59
Total/NA	Prep	7471B			704260	NVK	EET BUF	03/19/24 11:25
Total/NA	Analysis	7471B		1	704336	NVK	EET BUF	03/19/24 14:43

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: 375 Michigan Avenue

Job ID: 480-217909-1

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	03-31-24

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: 375 Michigan Avenue

Job ID: 480-217909-1

Method	Method Description	Protocol	Laboratory
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
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: 375 Michigan Avenue

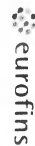
Job ID: 480-217909-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-217909-1	BH-1 0.5-1	Solid	03/15/24 08:40	03/15/24 14:30
480-217909-2	BH-2 1-2	Solid	03/15/24 08:55	03/15/24 14:30
480-217909-3	BH-3 0.2-2	Solid	03/15/24 09:05	03/15/24 14:30
480-217909-7	BH-7 0-0.5	Solid	03/15/24 10:05	03/15/24 14:30
480-217909-8	BH-8 1-2	Solid	03/15/24 10:15	03/15/24 14:30
480-217909-9	BH-9 1-2	Solid	03/15/24 10:30	03/15/24 14:30
480-217909-10	BH-10 0.5-1.5	Solid	03/15/24 10:45	03/15/24 14:30
480-217909-12	BH-12 0.5-1	Solid	03/15/24 11:15	03/15/24 14:30
480-217909-13	BH-13 0.5-1	Solid	03/15/24 11:20	03/15/24 14:30
480-217909-14	BH-14 0.5-1	Solid	03/15/24 11:40	03/15/24 14:30

Eurofins Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record



Environment Testing

Client Information		Sampler:		Lab PM:		COC No:									
Client Contact:		Phone:		Beninati, John		480-193752-40451.1									
Company:		E-Mail:		John.Beninati@eurofins.com		Page 1 of 2									
Brydges Engineering in Environment & Energy DPC		PWSID:		State of Origin:		Page 1 of 2									
Address:		Due Date Requested:		Analysis Requested											
960 Busti Ave Suite B-150		TAT Requested (days):		Preservation Codes:											
City:		Standard		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchoir H - Ascorbic Acid I - Ice J - DI Water K - EDTA DA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)											
State Zip:		Compliance Project: ☐ Yes ☐ No													
Phone:		PO #:													
716-362-6533(Tel)		Purchase Order not required													
Email:		WO #:													
jgambino@be3corp.com		Project #:													
375 Michigan Avenue		48027451													
Site:		SSOW#:													
375 Michigan Ave															
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab, B=Issue, A=At)		Matrix (W=water, S=solid, O=on-site, B=issue, A=at)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
BH-1 0.5-1'		3/15		8:40		G		Solid		N		N		HOLD	
BH-2 1-2'		3/15		8:55		G		Solid		X		X		HOLD	
BH-3 0.2-2'		3/15		9:05		G		Solid		X		X		HOLD	
BH-4 1-2'		3/15		9:15		G		Solid		X		X		HOLD	
BH-5 0.2-0.5'		3/15		9:30		G		Solid		X		X		HOLD	
BH-6 0.2-1'		3/15		9:50		G		Solid		X		X		HOLD	
BH-7 0-0.5'		3/15		10:05		G		Solid		X		X		HOLD	
BH-8 1-2'		3/15		10:15		G		Solid		X		X		HOLD	
BH-9 1-2'		3/15		10:30		G		Solid		X		X		HOLD	
BH-10 0.5-1.5'		3/15		10:45		G		Solid		X		X		HOLD	
BH-11 0.5-1'		3/15		11:00		G		Solid		X		X		HOLD	
Relinquishable Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client ☒ Disposal By Lab ☐ Archive For		Months							
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:											
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:					
Custody Seals Intact:		Custody Seal No.:				Received by:		Date/Time:		Company:					
☐ Yes ☐ No						Cooler Temperature(s) °C and Other Remarks:		3/15/27 1430		Company					
						477 & CC									

- 1
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Chain of Custody Record



3/28/2024

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-217909-1

Login Number: 217909

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	BRYDGES
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	

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/16/2024 10:57:26 AM

JOB DESCRIPTION

375 Michigan Avenue

JOB NUMBER

480-218856-1

Eurofins Buffalo

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
5/16/2024 10:57:26 AM

Authorized for release by
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Qualifiers

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.

Metals

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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
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: 375 Michigan Avenue

Job ID: 480-218856-1

Job ID: 480-218856-1

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Job Narrative 480-218856-1

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 4/15/2024 3:40 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 time was 5.4°C.

GC/MS Semi VOA

Method 8270D: Due to the matrix, the following samples could not be concentrated to the final method required volume: NS-1 0.5-1 FEET (480-218856-1), NS-5 0.5-1 FEET (480-218856-5) and NS-8 0.5-1 FEET (480-218856-8). The reporting limits (RLs) are elevated proportionately.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: NS-1 0.5-1 FEET (480-218856-1), NS-5 0.5-1 FEET (480-218856-5), NS-10 0.5-1 FEET (480-218856-10) and NS-11 0.5-1 FEET (480-218856-11). Elevated reporting limits (RL) are provided.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: NS-10 0.5-1 FEET (480-218856-10) and NS-11 0.5-1 FEET (480-218856-11). These results have been reported and qualified.

Method 8270D: The following sample was diluted due to color, appearance, and viscosity: NS-8 0.5-1 FEET (480-218856-8). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: NS-8 0.5-1 FEET (480-218856-8). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: NS-1 0.5-1 FEET (480-218856-1) and NS-5 0.5-1 FEET (480-218856-5). Elevated reporting limits (RLs) are provided.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: NS-1 0.5-1 FEET (480-218856-1) and NS-5 0.5-1 FEET (480-218856-5). These results have been reported and qualified.

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

Metals

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

General Chemistry

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: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-1 0.5-1 FEET

Lab Sample ID: 480-218856-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1400	J	10000	1100	ug/Kg	5	✱	8270D	Total/NA
Arsenic	1.8	J	3.1	0.66	mg/Kg	2	✱	6010D	Total/NA
Barium	60.7		41.9	1.6	mg/Kg	2	✱	6010D	Total/NA
Cadmium	1.3		0.84	0.16	mg/Kg	2	✱	6010D	Total/NA
Chromium	7.7		2.1	0.22	mg/Kg	2	✱	6010D	Total/NA
Copper	87.3		5.2	0.84	mg/Kg	2	✱	6010D	Total/NA
Lead	19.9		2.1	0.55	mg/Kg	2	✱	6010D	Total/NA
Manganese	65.2		3.1	0.25	mg/Kg	2	✱	6010D	Total/NA
Nickel	6.1	J	8.4	0.29	mg/Kg	2	✱	6010D	Total/NA
Selenium	1.4	J	4.2	1.3	mg/Kg	2	✱	6010D	Total/NA
Silver	0.64	J	2.1	0.17	mg/Kg	2	✱	6010D	Total/NA
Zinc	163		6.3	0.36	mg/Kg	2	✱	6010D	Total/NA
Mercury	0.19		0.025	0.0057	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: NS-5 0.5-1 FEET

Lab Sample ID: 480-218856-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1400	J	9100	960	ug/Kg	5	✱	8270D	Total/NA
Arsenic	3.7		3.0	0.62	mg/Kg	2	✱	6010D	Total/NA
Barium	56.5		39.7	1.5	mg/Kg	2	✱	6010D	Total/NA
Beryllium	0.31	J	0.40	0.044	mg/Kg	2	✱	6010D	Total/NA
Cadmium	0.27	J	0.79	0.15	mg/Kg	2	✱	6010D	Total/NA
Chromium	10.5		2.0	0.21	mg/Kg	2	✱	6010D	Total/NA
Copper	16.0		5.0	0.79	mg/Kg	2	✱	6010D	Total/NA
Lead	114		2.0	0.52	mg/Kg	2	✱	6010D	Total/NA
Manganese	192		3.0	0.24	mg/Kg	2	✱	6010D	Total/NA
Nickel	11.6		7.9	0.28	mg/Kg	2	✱	6010D	Total/NA
Zinc	96.6		6.0	0.34	mg/Kg	2	✱	6010D	Total/NA
Mercury	0.11		0.022	0.0050	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: NS-8 0.5-1 FEET

Lab Sample ID: 480-218856-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	1600	J	11000	1600	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	2300	J	11000	1700	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1300	J	11000	1200	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	2400	J	11000	1200	ug/Kg	5	✱	8270D	Total/NA
Pyrene	2000	J	11000	1300	ug/Kg	5	✱	8270D	Total/NA
Arsenic	4.7		3.1	0.65	mg/Kg	2	✱	6010D	Total/NA
Barium	59.2		41.4	1.6	mg/Kg	2	✱	6010D	Total/NA
Beryllium	0.39	J	0.41	0.046	mg/Kg	2	✱	6010D	Total/NA
Cadmium	0.33	J	0.83	0.16	mg/Kg	2	✱	6010D	Total/NA
Chromium	12.4		2.1	0.22	mg/Kg	2	✱	6010D	Total/NA
Copper	18.3		5.2	0.83	mg/Kg	2	✱	6010D	Total/NA
Lead	90.2		2.1	0.55	mg/Kg	2	✱	6010D	Total/NA
Manganese	280		3.1	0.25	mg/Kg	2	✱	6010D	Total/NA
Nickel	13.1		8.3	0.29	mg/Kg	2	✱	6010D	Total/NA
Zinc	95.3		6.2	0.36	mg/Kg	2	✱	6010D	Total/NA
Mercury	0.11		0.023	0.0053	mg/Kg	1	✱	7471B	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: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-10 0.5-1 FEET

Lab Sample ID: 480-218856-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoranthene	410	J	2100	220	ug/Kg	10	✱		8270D	Total/NA
Pyrene	250	J	2100	250	ug/Kg	10	✱		8270D	Total/NA
Arsenic	5.4		2.7	0.56	mg/Kg	2	✱		6010D	Total/NA
Barium	82.6		35.8	1.4	mg/Kg	2	✱		6010D	Total/NA
Beryllium	0.57		0.36	0.039	mg/Kg	2	✱		6010D	Total/NA
Cadmium	0.36	J	0.72	0.14	mg/Kg	2	✱		6010D	Total/NA
Chromium	11.1		1.8	0.19	mg/Kg	2	✱		6010D	Total/NA
Copper	38.5		4.5	0.72	mg/Kg	2	✱		6010D	Total/NA
Lead	2080		1.8	0.47	mg/Kg	2	✱		6010D	Total/NA
Manganese	314		2.7	0.21	mg/Kg	2	✱		6010D	Total/NA
Nickel	11.3		7.2	0.25	mg/Kg	2	✱		6010D	Total/NA
Zinc	103		5.4	0.31	mg/Kg	2	✱		6010D	Total/NA
Mercury	0.17		0.025	0.0057	mg/Kg	1	✱		7471B	Total/NA

Client Sample ID: NS-11 0.5-1 FEET

Lab Sample ID: 480-218856-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	810	J	2000	200	ug/Kg	10	✱		8270D	Total/NA
Benzo[a]pyrene	840	J	2000	290	ug/Kg	10	✱		8270D	Total/NA
Benzo[b]fluoranthene	1100	J	2000	310	ug/Kg	10	✱		8270D	Total/NA
Benzo[g,h,i]perylene	460	J	2000	210	ug/Kg	10	✱		8270D	Total/NA
Benzo[k]fluoranthene	550	J	2000	250	ug/Kg	10	✱		8270D	Total/NA
Chrysene	800	J	2000	440	ug/Kg	10	✱		8270D	Total/NA
Fluoranthene	1800	J	2000	210	ug/Kg	10	✱		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	390	J	2000	240	ug/Kg	10	✱		8270D	Total/NA
Phenanthrene	700	J	2000	290	ug/Kg	10	✱		8270D	Total/NA
Pyrene	1100	J	2000	230	ug/Kg	10	✱		8270D	Total/NA
Arsenic	6.8		3.2	0.68	mg/Kg	2	✱		6010D	Total/NA
Barium	110		43.3	1.6	mg/Kg	2	✱		6010D	Total/NA
Beryllium	0.57		0.43	0.048	mg/Kg	2	✱		6010D	Total/NA
Cadmium	0.37	J	0.87	0.17	mg/Kg	2	✱		6010D	Total/NA
Chromium	7.7		2.2	0.23	mg/Kg	2	✱		6010D	Total/NA
Copper	16.4		5.4	0.87	mg/Kg	2	✱		6010D	Total/NA
Lead	208		2.2	0.57	mg/Kg	2	✱		6010D	Total/NA
Manganese	171		3.2	0.26	mg/Kg	2	✱		6010D	Total/NA
Nickel	8.5	J	8.7	0.30	mg/Kg	2	✱		6010D	Total/NA
Zinc	71.7		6.5	0.37	mg/Kg	2	✱		6010D	Total/NA
Mercury	0.12		0.023	0.0054	mg/Kg	1	✱		7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-1 0.5-1 FEET

Lab Sample ID: 480-218856-1

Date Collected: 04/15/24 08:30

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		6100	3400	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
2-Methylphenol	ND		10000	1200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
3-Methylphenol	ND		20000	1600	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
4-Methylphenol	ND		20000	1200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Acenaphthene	ND		10000	1500	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Acenaphthylene	ND		10000	1300	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Anthracene	ND		10000	2600	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Benzo[a]anthracene	ND		10000	1000	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Benzo[a]pyrene	ND		10000	1500	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Benzo[b]fluoranthene	ND		10000	1600	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Benzo[g,h,i]perylene	ND		10000	1100	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Benzo[k]fluoranthene	ND		10000	1300	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Chrysene	ND		10000	2300	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Dibenz(a,h)anthracene	ND		10000	1800	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Dibenzofuran	ND		10000	1200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Fluoranthene	1400	J	10000	1100	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Fluorene	ND		10000	1200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Hexachlorobenzene	ND		10000	1400	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Indeno[1,2,3-cd]pyrene	ND		10000	1300	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Naphthalene	ND		10000	1300	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Pentachlorophenol	ND		20000	10000	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Phenanthrene	ND		10000	1500	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Phenol	ND		10000	1600	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5
Pyrene	ND		10000	1200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	146	S1+	54 - 120	04/17/24 16:33	05/07/24 12:08	5
2-Fluorobiphenyl (Surr)	86		60 - 120	04/17/24 16:33	05/07/24 12:08	5
2-Fluorophenol (Surr)	62		52 - 120	04/17/24 16:33	05/07/24 12:08	5
Nitrobenzene-d5 (Surr)	70		53 - 120	04/17/24 16:33	05/07/24 12:08	5
Phenol-d5 (Surr)	56		54 - 120	04/17/24 16:33	05/07/24 12:08	5
p-Terphenyl-d14 (Surr)	76	S1-	79 - 130	04/17/24 16:33	05/07/24 12:08	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8	J	3.1	0.66	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Barium	60.7		41.9	1.6	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Beryllium	ND		0.42	0.046	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Cadmium	1.3		0.84	0.16	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Chromium	7.7		2.1	0.22	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Copper	87.3		5.2	0.84	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Lead	19.9		2.1	0.55	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Manganese	65.2		3.1	0.25	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Nickel	6.1	J	8.4	0.29	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Selenium	1.4	J	4.2	1.3	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Silver	0.64	J	2.1	0.17	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2
Zinc	163		6.3	0.36	mg/Kg	☆	05/08/24 11:00	05/13/24 16:32	2

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-1 0.5-1 FEET

Lab Sample ID: 480-218856-1

Date Collected: 04/15/24 08:30

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 81.0

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.025	0.0057	mg/Kg	☆	04/22/24 09:51	04/22/24 14:17	1

Client Sample ID: NS-5 0.5-1 FEET

Lab Sample ID: 480-218856-5

Date Collected: 04/15/24 09:05

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		5400	2900	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
2-Methylphenol	ND		9100	1100	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
3-Methylphenol	ND		18000	1400	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
4-Methylphenol	ND		18000	1100	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Acenaphthene	ND		9100	1300	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Acenaphthylene	ND		9100	1200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Anthracene	ND		9100	2200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Benzo[a]anthracene	ND		9100	910	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Benzo[a]pyrene	ND		9100	1300	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Benzo[b]fluoranthene	ND		9100	1400	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Benzo[g,h,i]perylene	ND		9100	960	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Benzo[k]fluoranthene	ND		9100	1200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Chrysene	ND		9100	2000	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Dibenz(a,h)anthracene	ND		9100	1600	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Dibenzofuran	ND		9100	1100	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Fluoranthene	1400	J	9100	960	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Fluorene	ND		9100	1100	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Hexachlorobenzene	ND		9100	1200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Indeno[1,2,3-cd]pyrene	ND		9100	1100	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Naphthalene	ND		9100	1200	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Pentachlorophenol	ND		18000	9100	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Phenanthrene	ND		9100	1300	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Phenol	ND		9100	1400	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5
Pyrene	ND		9100	1100	ug/Kg	☆	04/17/24 16:33	05/07/24 12:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	139	S1+	54 - 120	04/17/24 16:33	05/07/24 12:33	5
2-Fluorobiphenyl (Surr)	85		60 - 120	04/17/24 16:33	05/07/24 12:33	5
2-Fluorophenol (Surr)	56		52 - 120	04/17/24 16:33	05/07/24 12:33	5
Nitrobenzene-d5 (Surr)	60		53 - 120	04/17/24 16:33	05/07/24 12:33	5
Phenol-d5 (Surr)	72		54 - 120	04/17/24 16:33	05/07/24 12:33	5
p-Terphenyl-d14 (Surr)	70	S1-	79 - 130	04/17/24 16:33	05/07/24 12:33	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		3.0	0.62	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Barium	56.5		39.7	1.5	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Beryllium	0.31	J	0.40	0.044	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Cadmium	0.27	J	0.79	0.15	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Chromium	10.5		2.0	0.21	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Copper	16.0		5.0	0.79	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Lead	114		2.0	0.52	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-5 0.5-1 FEET

Lab Sample ID: 480-218856-5

Date Collected: 04/15/24 09:05

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	192		3.0	0.24	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Nickel	11.6		7.9	0.28	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Selenium	ND		4.0	1.2	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Silver	ND		2.0	0.16	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2
Zinc	96.6		6.0	0.34	mg/Kg	☆	05/08/24 11:00	05/13/24 16:36	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.022	0.0050	mg/Kg	☆	04/22/24 09:51	04/22/24 14:18	1

Client Sample ID: NS-8 0.5-1 FEET

Lab Sample ID: 480-218856-8

Date Collected: 04/15/24 09:30

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		6400	3500	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
2-Methylphenol	ND		11000	1300	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
3-Methylphenol	ND		21000	1700	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
4-Methylphenol	ND		21000	1300	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Acenaphthene	ND		11000	1600	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Acenaphthylene	ND		11000	1400	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Anthracene	ND		11000	2700	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Benzo[a]anthracene	ND		11000	1100	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Benzo[a]pyrene	1600	J	11000	1600	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Benzo[b]fluoranthene	2300	J	11000	1700	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Benzo[g,h,i]perylene	1300	J	11000	1200	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Benzo[k]fluoranthene	ND		11000	1400	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Chrysene	ND		11000	2400	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Dibenz(a,h)anthracene	ND		11000	1900	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Dibenzofuran	ND		11000	1300	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Fluoranthene	2400	J	11000	1200	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Fluorene	ND		11000	1300	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Hexachlorobenzene	ND		11000	1500	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Indeno[1,2,3-cd]pyrene	ND		11000	1300	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Naphthalene	ND		11000	1400	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Pentachlorophenol	ND		21000	11000	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Phenanthrene	ND		11000	1600	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Phenol	ND		11000	1700	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5
Pyrene	2000	J	11000	1300	ug/Kg	☆	04/17/24 16:33	04/19/24 15:38	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	54 - 120	04/17/24 16:33	04/19/24 15:38	5
2-Fluorobiphenyl (Surr)	79		60 - 120	04/17/24 16:33	04/19/24 15:38	5
2-Fluorophenol (Surr)	0	S1-	52 - 120	04/17/24 16:33	04/19/24 15:38	5
Nitrobenzene-d5 (Surr)	93		53 - 120	04/17/24 16:33	04/19/24 15:38	5
Phenol-d5 (Surr)	0	S1-	54 - 120	04/17/24 16:33	04/19/24 15:38	5
p-Terphenyl-d14 (Surr)	81		79 - 130	04/17/24 16:33	04/19/24 15:38	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-8 0.5-1 FEET

Lab Sample ID: 480-218856-8

Date Collected: 04/15/24 09:30

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 84.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		3.1	0.65	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Barium	59.2		41.4	1.6	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Beryllium	0.39	J	0.41	0.046	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Cadmium	0.33	J	0.83	0.16	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Chromium	12.4		2.1	0.22	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Copper	18.3		5.2	0.83	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Lead	90.2		2.1	0.55	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Manganese	280		3.1	0.25	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Nickel	13.1		8.3	0.29	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Selenium	ND		4.1	1.3	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Silver	ND		2.1	0.17	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2
Zinc	95.3		6.2	0.36	mg/Kg	☆	05/08/24 11:00	05/13/24 16:40	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.023	0.0053	mg/Kg	☆	04/22/24 09:51	04/22/24 14:19	1

Client Sample ID: NS-10 0.5-1 FEET

Lab Sample ID: 480-218856-10

Date Collected: 04/15/24 09:50

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1200	680	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
2-Methylphenol	ND		2100	250	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
3-Methylphenol	ND		4100	320	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
4-Methylphenol	ND		4100	250	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Acenaphthene	ND		2100	310	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Acenaphthylene	ND		2100	270	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Anthracene	ND		2100	520	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Benzo[a]anthracene	ND		2100	210	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Benzo[a]pyrene	ND		2100	310	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Benzo[b]fluoranthene	ND		2100	330	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Benzo[g,h,i]perylene	ND		2100	220	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Benzo[k]fluoranthene	ND		2100	270	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Chrysene	ND		2100	470	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Dibenz(a,h)anthracene	ND		2100	370	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Dibenzofuran	ND		2100	250	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Fluoranthene	410	J	2100	220	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Fluorene	ND		2100	250	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Hexachlorobenzene	ND		2100	280	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Indeno[1,2,3-cd]pyrene	ND		2100	260	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Naphthalene	ND		2100	270	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Pentachlorophenol	ND		4100	2100	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Phenanthrene	ND		2100	310	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Phenol	ND		2100	320	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10
Pyrene	250	J	2100	250	ug/Kg	☆	04/17/24 16:33	04/19/24 04:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		54 - 120	04/17/24 16:33	04/19/24 04:22	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-10 0.5-1 FEET

Lab Sample ID: 480-218856-10

Date Collected: 04/15/24 09:50

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 80.3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73		60 - 120	04/17/24 16:33	04/19/24 04:22	10
2-Fluorophenol (Surr)	66		52 - 120	04/17/24 16:33	04/19/24 04:22	10
Nitrobenzene-d5 (Surr)	70		53 - 120	04/17/24 16:33	04/19/24 04:22	10
Phenol-d5 (Surr)	61		54 - 120	04/17/24 16:33	04/19/24 04:22	10
p-Terphenyl-d14 (Surr)	56	S1-	79 - 130	04/17/24 16:33	04/19/24 04:22	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		2.7	0.56	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Barium	82.6		35.8	1.4	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Beryllium	0.57		0.36	0.039	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Cadmium	0.36	J	0.72	0.14	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Chromium	11.1		1.8	0.19	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Copper	38.5		4.5	0.72	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Lead	2080		1.8	0.47	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Manganese	314		2.7	0.21	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Nickel	11.3		7.2	0.25	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Selenium	ND		3.6	1.1	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Silver	ND		1.8	0.15	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2
Zinc	103		5.4	0.31	mg/Kg	☆	05/08/24 11:00	05/13/24 16:44	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.025	0.0057	mg/Kg	☆	04/22/24 09:51	04/22/24 14:23	1

Client Sample ID: NS-11 0.5-1 FEET

Lab Sample ID: 480-218856-11

Date Collected: 04/15/24 10:00

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1100	630	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
2-Methylphenol	ND		2000	230	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
3-Methylphenol	ND		3800	300	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
4-Methylphenol	ND		3800	230	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Acenaphthene	ND		2000	290	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Acenaphthylene	ND		2000	250	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Anthracene	ND		2000	480	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Benzo[a]anthracene	810	J	2000	200	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Benzo[a]pyrene	840	J	2000	290	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Benzo[b]fluoranthene	1100	J	2000	310	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Benzo[g,h,i]perylene	460	J	2000	210	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Benzo[k]fluoranthene	550	J	2000	250	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Chrysene	800	J	2000	440	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Dibenz(a,h)anthracene	ND		2000	340	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Dibenzofuran	ND		2000	230	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Fluoranthene	1800	J	2000	210	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Fluorene	ND		2000	230	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Hexachlorobenzene	ND		2000	260	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Indeno[1,2,3-cd]pyrene	390	J	2000	240	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-11 0.5-1 FEET

Lab Sample ID: 480-218856-11

Date Collected: 04/15/24 10:00

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2000	250	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Pentachlorophenol	ND		3800	2000	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Phenanthrene	700	J	2000	290	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Phenol	ND		2000	300	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10
Pyrene	1100	J	2000	230	ug/Kg	☆	04/17/24 16:33	04/19/24 04:46	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		54 - 120	04/17/24 16:33	04/19/24 04:46	10
2-Fluorobiphenyl (Surr)	72		60 - 120	04/17/24 16:33	04/19/24 04:46	10
2-Fluorophenol (Surr)	62		52 - 120	04/17/24 16:33	04/19/24 04:46	10
Nitrobenzene-d5 (Surr)	72		53 - 120	04/17/24 16:33	04/19/24 04:46	10
Phenol-d5 (Surr)	62		54 - 120	04/17/24 16:33	04/19/24 04:46	10
p-Terphenyl-d14 (Surr)	58	S1-	79 - 130	04/17/24 16:33	04/19/24 04:46	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		3.2	0.68	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Barium	110		43.3	1.6	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Beryllium	0.57		0.43	0.048	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Cadmium	0.37	J	0.87	0.17	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Chromium	7.7		2.2	0.23	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Copper	16.4		5.4	0.87	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Lead	208		2.2	0.57	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Manganese	171		3.2	0.26	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Nickel	8.5	J	8.7	0.30	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Selenium	ND		4.3	1.3	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Silver	ND		2.2	0.18	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2
Zinc	71.7		6.5	0.37	mg/Kg	☆	05/08/24 11:00	05/13/24 16:47	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.023	0.0054	mg/Kg	☆	04/22/24 09:51	04/22/24 14:25	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP	FBP	2FP	NBZ	PHL	TPHd14
		(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-218856-1	NS-1 0.5-1 FEET	146 S1+	86	62	70	56	76 S1-
480-218856-5	NS-5 0.5-1 FEET	139 S1+	85	56	60	72	70 S1-
480-218856-8	NS-8 0.5-1 FEET	0 S1-	79	0 S1-	93	0 S1-	81
480-218856-10	NS-10 0.5-1 FEET	76	73	66	70	61	56 S1-
480-218856-11	NS-11 0.5-1 FEET	84	72	62	72	62	58 S1-
LCS 480-708176/2-A	Lab Control Sample	93	79	67	70	74	86
MB 480-708176/1-A	Method Blank	91	82	75	76	82	96

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)

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

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

Lab Sample ID: MB 480-708176/1-A

Matrix: Solid

Analysis Batch: 708284

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 708176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		97	54	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
2-Methylphenol	ND		170	19	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
3-Methylphenol	ND		320	25	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
4-Methylphenol	ND		320	19	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Acenaphthene	ND		170	24	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Acenaphthylene	ND		170	21	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Anthracene	ND		170	41	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Benzo[a]anthracene	ND		170	17	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Benzo[a]pyrene	ND		170	24	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Benzo[k]fluoranthene	ND		170	21	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Chrysene	ND		170	37	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Dibenzofuran	ND		170	19	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Fluoranthene	ND		170	18	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Fluorene	ND		170	19	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Hexachlorobenzene	ND		170	22	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Indeno[1,2,3-cd]pyrene	ND		170	20	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Naphthalene	ND		170	21	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Pentachlorophenol	ND		320	170	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Phenanthrene	ND		170	24	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Phenol	ND		170	25	ug/Kg		04/17/24 16:33	04/18/24 15:13	1
Pyrene	ND		170	19	ug/Kg		04/17/24 16:33	04/18/24 15:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		54 - 120	04/17/24 16:33	04/18/24 15:13	1
2-Fluorobiphenyl (Surr)	82		60 - 120	04/17/24 16:33	04/18/24 15:13	1
2-Fluorophenol (Surr)	75		52 - 120	04/17/24 16:33	04/18/24 15:13	1
Nitrobenzene-d5 (Surr)	76		53 - 120	04/17/24 16:33	04/18/24 15:13	1
Phenol-d5 (Surr)	82		54 - 120	04/17/24 16:33	04/18/24 15:13	1
p-Terphenyl-d14 (Surr)	96		79 - 130	04/17/24 16:33	04/18/24 15:13	1

Lab Sample ID: LCS 480-708176/2-A

Matrix: Solid

Analysis Batch: 708284

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 708176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1630	625		ug/Kg		38	23 - 120
2-Methylphenol	1630	1110		ug/Kg		68	54 - 120
3-Methylphenol	1630	1180		ug/Kg		73	55 - 120
4-Methylphenol	1630	1180		ug/Kg		73	55 - 120
Acenaphthene	1630	1240		ug/Kg		76	62 - 120
Acenaphthylene	1630	1110		ug/Kg		68	58 - 121
Anthracene	1630	1280		ug/Kg		78	62 - 120
Benzo[a]anthracene	1630	1310		ug/Kg		80	65 - 120
Benzo[a]pyrene	1630	1390		ug/Kg		86	64 - 120
Benzo[b]fluoranthene	1630	1310		ug/Kg		81	64 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

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

Lab Sample ID: LCS 480-708176/2-A

Matrix: Solid

Analysis Batch: 708284

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 708176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	1630	1380		ug/Kg		85	45 - 145
Benzo[k]fluoranthene	1630	1350		ug/Kg		83	65 - 120
Chrysene	1630	1330		ug/Kg		82	64 - 120
Dibenz(a,h)anthracene	1630	1380		ug/Kg		85	54 - 132
Dibenzofuran	1630	1230		ug/Kg		75	63 - 120
Fluoranthene	1630	1310		ug/Kg		80	62 - 120
Fluorene	1630	1230		ug/Kg		76	63 - 120
Hexachlorobenzene	1630	1310		ug/Kg		81	60 - 120
Indeno[1,2,3-cd]pyrene	1630	1510		ug/Kg		93	56 - 134
Naphthalene	1630	1160		ug/Kg		72	55 - 120
Pentachlorophenol	3250	2590		ug/Kg		80	10 - 120
Phenanthrene	1630	1290		ug/Kg		79	60 - 120
Phenol	1630	1090		ug/Kg		67	53 - 120
Pyrene	1630	1380		ug/Kg		85	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		54 - 120
2-Fluorobiphenyl (Surr)	79		60 - 120
2-Fluorophenol (Surr)	67		52 - 120
Nitrobenzene-d5 (Surr)	70		53 - 120
Phenol-d5 (Surr)	74		54 - 120
p-Terphenyl-d14 (Surr)	86		79 - 130

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 460-973623/1-A

Matrix: Solid

Analysis Batch: 974530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 973623

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.5	0.31	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Barium	ND		20.0	0.76	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Beryllium	ND		0.20	0.022	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Cadmium	ND		0.40	0.078	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Chromium	ND		1.0	0.11	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Copper	ND		2.5	0.40	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Lead	ND		1.0	0.26	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Manganese	ND		1.5	0.12	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Nickel	ND		4.0	0.14	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Selenium	ND		2.0	0.62	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Silver	ND		1.0	0.082	mg/Kg		05/08/24 11:00	05/13/24 15:36	1
Zinc	ND		3.0	0.17	mg/Kg		05/08/24 11:00	05/13/24 15:36	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

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

Lab Sample ID: LCSSRM 460-973623/2-A
Matrix: Solid
Analysis Batch: 974530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 973623

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	311	273.0		mg/Kg		87.8	81.7 - 118.3
Barium	304	270.0		mg/Kg		88.8	81.9 - 118.1
Beryllium	169	148.3		mg/Kg		87.8	82.8 - 117.2
Cadmium	212	190.7		mg/Kg		90.0	82.5 - 117.9
Chromium	180	162.8		mg/Kg		90.5	81.1 - 118.3
Copper	205	180.7		mg/Kg		88.1	82.9 - 117.1
Lead	92.8	85.38		mg/Kg		92.0	81.8 - 118.5
Manganese	531	474.6		mg/Kg		89.4	80.8 - 119.2
Nickel	313	287.2		mg/Kg		91.8	82.4 - 117.6
Selenium	165	143.4		mg/Kg		86.9	80.6 - 119.4
Silver	82.4	76.50		mg/Kg		92.8	79.5 - 120.4
Zinc	166	151.0		mg/Kg		91.0	80.1 - 120.5

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-708540/1-A
Matrix: Solid
Analysis Batch: 708896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 708540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0045	mg/Kg		04/22/24 09:51	04/22/24 14:00	1

Lab Sample ID: LCSSRM 480-708540/24-A ^10
Matrix: Solid
Analysis Batch: 708896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 708540

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	19.1	16.87		mg/Kg		88.3	59.7 - 139.8

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

GC/MS Semi VOA

Prep Batch: 708176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218856-1	NS-1 0.5-1 FEET	Total/NA	Solid	3550C	
480-218856-5	NS-5 0.5-1 FEET	Total/NA	Solid	3550C	
480-218856-8	NS-8 0.5-1 FEET	Total/NA	Solid	3550C	
480-218856-10	NS-10 0.5-1 FEET	Total/NA	Solid	3550C	
480-218856-11	NS-11 0.5-1 FEET	Total/NA	Solid	3550C	
MB 480-708176/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-708176/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 708274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218856-10	NS-10 0.5-1 FEET	Total/NA	Solid	8270D	708176
480-218856-11	NS-11 0.5-1 FEET	Total/NA	Solid	8270D	708176

Analysis Batch: 708284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-708176/1-A	Method Blank	Total/NA	Solid	8270D	708176
LCS 480-708176/2-A	Lab Control Sample	Total/NA	Solid	8270D	708176

Analysis Batch: 708476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218856-8	NS-8 0.5-1 FEET	Total/NA	Solid	8270D	708176

Analysis Batch: 710904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218856-1	NS-1 0.5-1 FEET	Total/NA	Solid	8270D	708176
480-218856-5	NS-5 0.5-1 FEET	Total/NA	Solid	8270D	708176

Metals

Prep Batch: 708540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218856-1	NS-1 0.5-1 FEET	Total/NA	Solid	7471B	
480-218856-5	NS-5 0.5-1 FEET	Total/NA	Solid	7471B	
480-218856-8	NS-8 0.5-1 FEET	Total/NA	Solid	7471B	
480-218856-10	NS-10 0.5-1 FEET	Total/NA	Solid	7471B	
480-218856-11	NS-11 0.5-1 FEET	Total/NA	Solid	7471B	
MB 480-708540/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-708540/24-A ^	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 708896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218856-1	NS-1 0.5-1 FEET	Total/NA	Solid	7471B	708540
480-218856-5	NS-5 0.5-1 FEET	Total/NA	Solid	7471B	708540
480-218856-8	NS-8 0.5-1 FEET	Total/NA	Solid	7471B	708540
480-218856-10	NS-10 0.5-1 FEET	Total/NA	Solid	7471B	708540
480-218856-11	NS-11 0.5-1 FEET	Total/NA	Solid	7471B	708540
MB 480-708540/1-A	Method Blank	Total/NA	Solid	7471B	708540
LCSSRM 480-708540/24-A ^	Lab Control Sample	Total/NA	Solid	7471B	708540

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Metals

Prep Batch: 973623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218856-1	NS-1 0.5-1 FEET	Total/NA	Solid	3050B	
480-218856-5	NS-5 0.5-1 FEET	Total/NA	Solid	3050B	
480-218856-8	NS-8 0.5-1 FEET	Total/NA	Solid	3050B	
480-218856-10	NS-10 0.5-1 FEET	Total/NA	Solid	3050B	
480-218856-11	NS-11 0.5-1 FEET	Total/NA	Solid	3050B	
MB 460-973623/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-973623/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 974530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218856-1	NS-1 0.5-1 FEET	Total/NA	Solid	6010D	973623
480-218856-5	NS-5 0.5-1 FEET	Total/NA	Solid	6010D	973623
480-218856-8	NS-8 0.5-1 FEET	Total/NA	Solid	6010D	973623
480-218856-10	NS-10 0.5-1 FEET	Total/NA	Solid	6010D	973623
480-218856-11	NS-11 0.5-1 FEET	Total/NA	Solid	6010D	973623
MB 460-973623/1-A	Method Blank	Total/NA	Solid	6010D	973623
LCSSRM 460-973623/2-A	Lab Control Sample	Total/NA	Solid	6010D	973623

General Chemistry

Analysis Batch: 707998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218856-1	NS-1 0.5-1 FEET	Total/NA	Solid	Moisture	
480-218856-5	NS-5 0.5-1 FEET	Total/NA	Solid	Moisture	
480-218856-8	NS-8 0.5-1 FEET	Total/NA	Solid	Moisture	
480-218856-10	NS-10 0.5-1 FEET	Total/NA	Solid	Moisture	
480-218856-11	NS-11 0.5-1 FEET	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-1 0.5-1 FEET

Date Collected: 04/15/24 08:30

Date Received: 04/15/24 15:40

Lab Sample ID: 480-218856-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	707998	JMM	EET BUF	04/16/24 15:29

Client Sample ID: NS-1 0.5-1 FEET

Date Collected: 04/15/24 08:30

Date Received: 04/15/24 15:40

Lab Sample ID: 480-218856-1

Matrix: Solid

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			708176	SJM	EET BUF	04/17/24 16:33
Total/NA	Analysis	8270D		5	710904	JMM	EET BUF	05/07/24 12:08
Total/NA	Prep	3050B			973623	NNW	EET EDI	05/08/24 11:00
Total/NA	Analysis	6010D		2	974530	MDC	EET EDI	05/13/24 16:32
Total/NA	Prep	7471B			708540	ESB	EET BUF	04/22/24 09:51
Total/NA	Analysis	7471B		1	708896	BMB	EET BUF	04/22/24 14:17

Client Sample ID: NS-5 0.5-1 FEET

Date Collected: 04/15/24 09:05

Date Received: 04/15/24 15:40

Lab Sample ID: 480-218856-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	707998	JMM	EET BUF	04/16/24 15:29

Client Sample ID: NS-5 0.5-1 FEET

Date Collected: 04/15/24 09:05

Date Received: 04/15/24 15:40

Lab Sample ID: 480-218856-5

Matrix: Solid

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			708176	SJM	EET BUF	04/17/24 16:33
Total/NA	Analysis	8270D		5	710904	JMM	EET BUF	05/07/24 12:33
Total/NA	Prep	3050B			973623	NNW	EET EDI	05/08/24 11:00
Total/NA	Analysis	6010D		2	974530	MDC	EET EDI	05/13/24 16:36
Total/NA	Prep	7471B			708540	ESB	EET BUF	04/22/24 09:51
Total/NA	Analysis	7471B		1	708896	BMB	EET BUF	04/22/24 14:18

Client Sample ID: NS-8 0.5-1 FEET

Date Collected: 04/15/24 09:30

Date Received: 04/15/24 15:40

Lab Sample ID: 480-218856-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	707998	JMM	EET BUF	04/16/24 15:29

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Client Sample ID: NS-8 0.5-1 FEET

Lab Sample ID: 480-218856-8

Date Collected: 04/15/24 09:30

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			708176	SJM	EET BUF	04/17/24 16:33
Total/NA	Analysis	8270D		5	708476	JMM	EET BUF	04/19/24 15:38
Total/NA	Prep	3050B			973623	NNW	EET EDI	05/08/24 11:00
Total/NA	Analysis	6010D		2	974530	MDC	EET EDI	05/13/24 16:40
Total/NA	Prep	7471B			708540	ESB	EET BUF	04/22/24 09:51
Total/NA	Analysis	7471B		1	708896	BMB	EET BUF	04/22/24 14:19

Client Sample ID: NS-10 0.5-1 FEET

Lab Sample ID: 480-218856-10

Date Collected: 04/15/24 09:50

Matrix: Solid

Date Received: 04/15/24 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	707998	JMM	EET BUF	04/16/24 15:29

Client Sample ID: NS-10 0.5-1 FEET

Lab Sample ID: 480-218856-10

Date Collected: 04/15/24 09:50

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			708176	SJM	EET BUF	04/17/24 16:33
Total/NA	Analysis	8270D		10	708274	JMM	EET BUF	04/19/24 04:22
Total/NA	Prep	3050B			973623	NNW	EET EDI	05/08/24 11:00
Total/NA	Analysis	6010D		2	974530	MDC	EET EDI	05/13/24 16:44
Total/NA	Prep	7471B			708540	ESB	EET BUF	04/22/24 09:51
Total/NA	Analysis	7471B		1	708896	BMB	EET BUF	04/22/24 14:23

Client Sample ID: NS-11 0.5-1 FEET

Lab Sample ID: 480-218856-11

Date Collected: 04/15/24 10:00

Matrix: Solid

Date Received: 04/15/24 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	707998	JMM	EET BUF	04/16/24 15:29

Client Sample ID: NS-11 0.5-1 FEET

Lab Sample ID: 480-218856-11

Date Collected: 04/15/24 10:00

Matrix: Solid

Date Received: 04/15/24 15:40

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			708176	SJM	EET BUF	04/17/24 16:33
Total/NA	Analysis	8270D		10	708274	JMM	EET BUF	04/19/24 04:46
Total/NA	Prep	3050B			973623	NNW	EET EDI	05/08/24 11:00
Total/NA	Analysis	6010D		2	974530	MDC	EET EDI	05/13/24 16:47
Total/NA	Prep	7471B			708540	ESB	EET BUF	04/22/24 09:51
Total/NA	Analysis	7471B		1	708896	BMB	EET BUF	04/22/24 14:25

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

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

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	06-30-24
Massachusetts	State	M-NJ312	06-30-24
New Jersey	NELAP	12028	06-30-24
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	P330-20-00244	05-31-24

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010D	Metals (ICP)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
3050B	Preparation, Metals	SW846	EET EDI
3550C	Ultrasonic Extraction	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

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 375 Michigan Avenue

Job ID: 480-218856-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-218856-1	NS-1 0.5-1 FEET	Solid	04/15/24 08:30	04/15/24 15:40
480-218856-5	NS-5 0.5-1 FEET	Solid	04/15/24 09:05	04/15/24 15:40
480-218856-8	NS-8 0.5-1 FEET	Solid	04/15/24 09:30	04/15/24 15:40
480-218856-10	NS-10 0.5-1 FEET	Solid	04/15/24 09:50	04/15/24 15:40
480-218856-11	NS-11 0.5-1 FEET	Solid	04/15/24 10:00	04/15/24 15:40

Chain of Custody Record

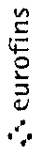
Client Information		Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Mr. Joseph Gambino Jacob Cox		P. Gorton		Beninati, John				480-195105-40451.1	
Company: Bridges Engineering in Environment & Energy DPC		Phone: 716-308-8220		E-Mail: John Beninati@et.eurofins.com		State of Origin:		Page 1 of 2	
Address: 960 Busti Ave Suite B-150		Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes:	
City: Buffalo		TAT Requested (days): 10 days						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 M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCA W - pH 4-5 Y - Trizma Z - other (specify)	
State, Zip: NY, 14213		Compliance Project: Δ Yes Δ No							
Phone: 716-362-6533(Tel)		Purchase Order not required							
Email: jgambino@be3corp.com		WO #							
Project Name: 375 Michigan Avenue		Project #							
Site: 375 Michigan Avenue		SSOW#							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weaker, Strong, Overweight)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:		
NS-1 0.5-1 Feet	4-15-24	830	G	Solid	X	6010C, 7471B, 8270D	ANALYZE		
NS-2 0.5-1 Feet		840		Solid			HOLD		
NS-3 0.5-1 Feet		850		Solid			HOLD		
NS-4 0.5-1 Feet		900		Solid			HOLD		
NS-5 0.5-1 Feet		905		Solid			ANALYZE		
NS-6 0.5-1 Feet		910		Solid			HOLD		
NS-7 0.5-1 Feet		920		Solid			HOLD		
NS-8 0.5-1 Feet		930		Solid			ANALYZE		
NS-9 0.5-1 Feet		940		Solid			HOLD		
NS-10 0.5-1 Feet		950		Solid			ANALYZE		
NS-11 0.5-1 Feet		1000		Solid			ANALYZE		
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: I, II, III, IV, Other (specify) NORMAL									
Empty Kit Relinquished by: [Signature]									
Relinquished by: [Signature]									
Relinquished by: [Signature]									
Relinquished by: [Signature]									
Custody Seal Intact: Δ Yes Δ No									
Custody Seal No.: [Signature]									
Cooler Temperature(s) °C and Other Remarks: 5.4 #1									
Received by: [Signature]									
Received by: [Signature]									
Received by: [Signature]									
Date/Time: 4/15/24 1540									
Date/Time: 4/15/24 1540									
Date/Time: 4/15/24 1540									
Company: EPA									
Company: EPA									
Company: EPA									

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

[illegible]

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-218856-1

Login Number: 218856

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	BRYDGES EEE
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	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-218856-1

Login Number: 218856

List Number: 2

Creator: Armbruster, Chris

List Source: Eurofins Edison

List Creation: 05/07/24 03:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.0/1.4, 0.8/1.2, 1.1/1.5, 1.2/1.6, 1.5/1.9°C IR9
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

April 22, 2024

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

Project Location: 375 Michigan
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 24D2090

Enclosed are results of analyses for samples as received by the laboratory on April 17, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

William A. Scott
Project Manager

Table of Contents

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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: 4/22/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24D2090

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

PROJECT LOCATION: 375 Michigan

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SV-1	24D2090-01	Soil Gas		EPA TO-15	

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

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:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Acetone

24D2090-01[SV-1], B372002-DUP1

Ethanol

24D2090-01[SV-1], B372002-DUP1

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Tetrahydrofuran

24D2090-01[SV-1], B372002-BLK1, B372002-BS1, B372002-DUP1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Tetrahydrofuran

24D2090-01[SV-1], B372002-BLK1, B372002-BS1, B372002-DUP1, S103392-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

1,1,2,2-Tetrachloroethane

B372002-BS1, S103392-CCV1

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.



Lisa A. Worthington
Technical Representative

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

ANALYTICAL RESULTS

Project Location: 375 Michigan
 Date Received: 4/17/2024
Field Sample #: SV-1
Sample ID: 24D2090-01
 Sample Matrix: Soil Gas
 Sampled: 4/16/2024 11:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2413
 Canister Size: 3 liter
 Flow Controller ID: 3627
 Sample Type: 24 hr

Work Order: 24D2090
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.5
 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	120	4.0	E	290	9.5	2	4/17/24 18:17	KMC	
Benzene	0.52	0.10		1.7	0.32	2	4/17/24 18:17	KMC	
Benzyl chloride	ND	0.10		ND	0.52	2	4/17/24 18:17	KMC	
Bromodichloromethane	ND	0.10		ND	0.67	2	4/17/24 18:17	KMC	
Bromoform	ND	0.10		ND	1.0	2	4/17/24 18:17	KMC	
Bromomethane	ND	0.10		ND	0.39	2	4/17/24 18:17	KMC	
1,3-Butadiene	ND	0.10		ND	0.22	2	4/17/24 18:17	KMC	
2-Butanone (MEK)	4.9	4.0		14	12	2	4/17/24 18:17	KMC	
Carbon Disulfide	ND	1.0		ND	3.1	2	4/17/24 18:17	KMC	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	4/17/24 18:17	KMC	
Chlorobenzene	ND	0.10		ND	0.46	2	4/17/24 18:17	KMC	
Chloroethane	0.15	0.10		0.41	0.26	2	4/17/24 18:17	KMC	
Chloroform	ND	0.10		ND	0.49	2	4/17/24 18:17	KMC	
Chloromethane	1.9	0.20		3.9	0.41	2	4/17/24 18:17	KMC	
Cyclohexane	ND	0.10		ND	0.34	2	4/17/24 18:17	KMC	
Dibromochloromethane	ND	0.10		ND	0.85	2	4/17/24 18:17	KMC	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	4/17/24 18:17	KMC	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	4/17/24 18:17	KMC	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	4/17/24 18:17	KMC	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	4/17/24 18:17	KMC	
Dichlorodifluoromethane (Freon 12)	0.39	0.10		1.9	0.49	2	4/17/24 18:17	KMC	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/17/24 18:17	KMC	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	4/17/24 18:17	KMC	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/17/24 18:17	KMC	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/17/24 18:17	KMC	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/17/24 18:17	KMC	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	4/17/24 18:17	KMC	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/17/24 18:17	KMC	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	4/17/24 18:17	KMC	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	4/17/24 18:17	KMC	
1,4-Dioxane	ND	1.0		ND	3.6	2	4/17/24 18:17	KMC	
Ethanol	160	4.0	E	300	7.5	2	4/17/24 18:17	KMC	
Ethyl Acetate	ND	1.0		ND	3.6	2	4/17/24 18:17	KMC	
Ethylbenzene	0.30	0.10		1.3	0.43	2	4/17/24 18:17	KMC	
4-Ethyltoluene	ND	0.10		ND	0.49	2	4/17/24 18:17	KMC	
Heptane	0.61	0.10		2.5	0.41	2	4/17/24 18:17	KMC	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	4/17/24 18:17	KMC	

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

ANALYTICAL RESULTS

Project Location: 375 Michigan
 Date Received: 4/17/2024
Field Sample #: SV-1
Sample ID: 24D2090-01
 Sample Matrix: Soil Gas
 Sampled: 4/16/2024 11:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2413
 Canister Size: 3 liter
 Flow Controller ID: 3627
 Sample Type: 24 hr

Work Order: 24D2090
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.5
 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		
Hexane	ND	4.0		ND	14	2	4/17/24 18:17	KMC	
2-Hexanone (MBK)	0.30	0.10		1.2	0.41	2	4/17/24 18:17	KMC	
Isopropanol	ND	4.0		ND	9.8	2	4/17/24 18:17	KMC	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	4/17/24 18:17	KMC	
Methylene Chloride	ND	1.0		ND	3.5	2	4/17/24 18:17	KMC	
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	4/17/24 18:17	KMC	
Naphthalene	ND	0.10		ND	0.52	2	4/17/24 18:17	KMC	
Propene	25	4.0		43	6.9	2	4/17/24 18:17	KMC	
Styrene	ND	0.10		ND	0.43	2	4/17/24 18:17	KMC	
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/17/24 18:17	KMC	
Tetrachloroethylene	ND	0.10		ND	0.68	2	4/17/24 18:17	KMC	
Tetrahydrofuran	ND	1.0	L-03, V-05	ND	2.9	2	4/17/24 18:17	KMC	
Toluene	0.92	0.10		3.5	0.38	2	4/17/24 18:17	KMC	
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	4/17/24 18:17	KMC	
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/17/24 18:17	KMC	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/17/24 18:17	KMC	
Trichloroethylene	ND	0.10		ND	0.54	2	4/17/24 18:17	KMC	
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	4/17/24 18:17	KMC	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	4/17/24 18:17	KMC	
1,2,4-Trimethylbenzene	0.60	0.10		3.0	0.49	2	4/17/24 18:17	KMC	
1,3,5-Trimethylbenzene	0.15	0.10		0.74	0.49	2	4/17/24 18:17	KMC	
Vinyl Acetate	ND	2.0		ND	7.0	2	4/17/24 18:17	KMC	
Vinyl Chloride	ND	0.10		ND	0.26	2	4/17/24 18:17	KMC	
m&p-Xylene	1.3	0.20		5.8	0.87	2	4/17/24 18:17	KMC	
o-Xylene	0.49	0.10		2.1	0.43	2	4/17/24 18:17	KMC	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.5	70-130	4/17/24 18:17

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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
24D2090-01 [SV-1]	B372002	1.5	1	N/A	1000	200	150	04/17/24

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	%REC	Limits	RPD	

Batch B372002 - TO-15 Prep

Blank (B372002-BLK1)					Prepared & Analyzed: 04/17/24					
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								

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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 B372002 - TO-15 Prep
Blank (B372002-BLK1)

Prepared & Analyzed: 04/17/24

1,1,2,2-Tetrachloroethane	ND	0.034								
Tetrachloroethylene	ND	0.034								
Tetrahydrofuran	ND	0.34								L-03, V-05
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>6.61</i>				<i>8.00</i>		<i>82.6</i>	<i>70-130</i>		
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LCS (B372002-BS1)

Prepared & Analyzed: 04/17/24

Acetone	3.84				5.00		76.7	70-130		
Benzene	5.01				5.00		100	70-130		
Benzyl chloride	4.68				5.00		93.7	70-130		
Bromodichloromethane	4.72				5.00		94.4	70-130		
Bromoform	4.96				5.00		99.2	70-130		
Bromomethane	4.95				5.00		99.0	70-130		
1,3-Butadiene	4.76				5.00		95.1	70-130		
2-Butanone (MEK)	4.24				5.00		84.8	70-130		
Carbon Disulfide	5.06				5.00		101	70-130		
Carbon Tetrachloride	4.47				5.00		89.4	70-130		
Chlorobenzene	5.20				5.00		104	70-130		
Chloroethane	4.56				5.00		91.2	70-130		
Chloroform	4.92				5.00		98.4	70-130		
Chloromethane	4.67				5.00		93.4	70-130		
Cyclohexane	4.58				5.00		91.5	70-130		
Dibromochloromethane	5.23				5.00		105	70-130		
1,2-Dibromoethane (EDB)	5.26				5.00		105	70-130		
1,2-Dichlorobenzene	4.96				5.00		99.1	70-130		
1,3-Dichlorobenzene	5.43				5.00		109	70-130		
1,4-Dichlorobenzene	5.53				5.00		111	70-130		
Dichlorodifluoromethane (Freon 12)	4.95				5.00		98.9	70-130		
1,1-Dichloroethane	4.44				5.00		88.8	70-130		
1,2-Dichloroethane	4.16				5.00		83.1	70-130		
1,1-Dichloroethylene	4.68				5.00		93.5	70-130		
cis-1,2-Dichloroethylene	4.77				5.00		95.3	70-130		
trans-1,2-Dichloroethylene	4.32				5.00		86.3	70-130		
1,2-Dichloropropane	5.53				5.00		111	70-130		

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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	%REC	Limits	RPD	Limit	
Batch B372002 - TO-15 Prep											
LCS (B372002-BS1)						Prepared & Analyzed: 04/17/24					
cis-1,3-Dichloropropene	5.07				5.00		101	70-130			
trans-1,3-Dichloropropene	4.82				5.00		96.4	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.67				5.00		93.4	70-130			
1,4-Dioxane	6.04				5.00		121	70-130			
Ethanol	5.29				5.00		106	70-130			
Ethyl Acetate	3.80				5.00		75.9	70-130			
Ethylbenzene	4.93				5.00		98.6	70-130			
4-Ethyltoluene	4.82				5.00		96.4	70-130			
Heptane	4.85				5.00		97.0	70-130			
Hexachlorobutadiene	4.19				5.00		83.8	70-130			
Hexane	3.80				5.00		76.1	70-130			
2-Hexanone (MBK)	5.64				5.00		113	70-130			
Isopropanol	4.36				5.00		87.3	70-130			
Methyl tert-Butyl Ether (MTBE)	4.20				5.00		83.9	70-130			
Methylene Chloride	4.18				5.00		83.6	70-130			
4-Methyl-2-pentanone (MIBK)	5.38				5.00		108	70-130			
Naphthalene	5.20				5.00		104	70-130			
Propene	5.12				5.00		102	70-130			
Styrene	5.07				5.00		101	70-130			
1,1,2,2-Tetrachloroethane	5.97				5.00		119	70-130			V-06
Tetrachloroethylene	4.83				5.00		96.6	70-130			
Tetrahydrofuran	3.23				5.00		64.6	* 70-130			L-03, V-05
Toluene	5.02				5.00		100	70-130			
1,2,4-Trichlorobenzene	4.23				5.00		84.6	70-130			
1,1,1-Trichloroethane	4.38				5.00		87.5	70-130			
1,1,2-Trichloroethane	5.78				5.00		116	70-130			
Trichloroethylene	4.77				5.00		95.3	70-130			
Trichlorofluoromethane (Freon 11)	4.56				5.00		91.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.73				5.00		94.6	70-130			
1,2,4-Trimethylbenzene	4.79				5.00		95.8	70-130			
1,3,5-Trimethylbenzene	5.00				5.00		99.9	70-130			
Vinyl Acetate	5.45				5.00		109	70-130			
Vinyl Chloride	5.01				5.00		100	70-130			
m&p-Xylene	10.4				10.0		104	70-130			
o-Xylene	5.14				5.00		103	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.26				8.00		90.7	70-130			

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B372002 - TO-15 Prep											
Duplicate (B372002-DUP1)	Source: 24D2090-01				Prepared & Analyzed: 04/17/24						
Acetone	120	4.0	280	9.5		120			1.89	25	E
Benzene	0.50	0.10	1.6	0.32		0.52			4.34	25	
Benzyl chloride	ND	0.10	ND	0.52		0.058				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)	4.7	4.0	14	12		4.9			3.15	25	
Carbon Disulfide	0.94	1.0	2.9	3.1		0.91			3.89	25	
Carbon Tetrachloride	ND	0.10	ND	0.63		ND				25	
Chlorobenzene	ND	0.10	ND	0.46		ND				25	
Chloroethane	0.19	0.10	0.50	0.26		0.15			20.9	25	
Chloroform	ND	0.10	ND	0.49		ND				25	
Chloromethane	1.8	0.20	3.7	0.41		1.9			3.78	25	
Cyclohexane	0.080	0.10	0.28	0.34		0.082			2.47	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)	0.44	0.10	2.2	0.49		0.39			12.2	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	150	4.0	290	7.5		160			2.86	25	E
Ethyl Acetate	ND	1.0	ND	3.6		ND				25	
Ethylbenzene	0.31	0.10	1.3	0.43		0.30			2.65	25	
4-Ethyltoluene	0.096	0.10	0.47	0.49		0.098			2.06	25	
Heptane	0.70	0.10	2.9	0.41		0.61			14.0	25	
Hexachlorobutadiene	ND	0.10	ND	1.1		ND				25	
Hexane	ND	4.0	ND	14		ND				25	
2-Hexanone (MBK)	0.31	0.10	1.3	0.41		0.30			0.656	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	0.37	1.0	1.3	3.5		0.40			5.71	25	
4-Methyl-2-pentanone (MIBK)	ND	0.10	ND	0.41		ND				25	
Naphthalene	ND	0.10	ND	0.52		ND				25	
Propene	24	4.0	42	6.9		25			1.76	25	
Styrene	ND	0.10	ND	0.43		ND				25	

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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	%REC	Limits	RPD	Limit	
Batch B372002 - TO-15 Prep											
Duplicate (B372002-DUP1)	Source: 24D2090-01				Prepared & Analyzed: 04/17/24						
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	L-03, V-05
Tetrachloroethylene	ND	0.10	ND	0.68		ND				25	
Tetrahydrofuran	ND	1.0	ND	2.9		ND				25	
Toluene	0.95	0.10	3.6	0.38		0.92		3.64		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)	0.19	0.40	1.1	2.2		0.21			6.00	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.064	0.40	0.49	3.1		0.064			0.00	25	
1,2,4-Trimethylbenzene	0.58	0.10	2.9	0.49		0.60			3.04	25	
1,3,5-Trimethylbenzene	0.14	0.10	0.70	0.49		0.15			5.48	25	
Vinyl Acetate	1.1	2.0	3.7	7.0		1.1			0.758	25	
Vinyl Chloride	ND	0.10	ND	0.26		ND				25	
m&p-Xylene	1.3	0.20	5.5	0.87		1.3			5.26	25	
o-Xylene	0.47	0.10	2.0	0.43		0.49			4.20	25	
Surrogate: 4-Bromofluorobenzene (1)	7.12				8.00		89.0	70-130			

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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.
E	Reported result is estimated. Value reported over verified calibration range.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

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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 (S103392-CCV1)			Lab File ID: L24A108003.D			Analyzed: 04/17/24 10:54			
Bromochloromethane (1)	264488	2.864				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	742712	3.538				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	649819	5.196				60 - 140		+/-0.50	
LCS (B372002-BS1)			Lab File ID: L24A108004.D			Analyzed: 04/17/24 11:21			
Bromochloromethane (1)	270569	2.869	264488	2.864	102	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	768469	3.538	742712	3.538	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	672213	5.196	649819	5.196	103	60 - 140	0.0000	+/-0.50	
Blank (B372002-BLK1)			Lab File ID: L24A108007.D			Analyzed: 04/17/24 12:47			
Bromochloromethane (1)	262360	2.863	264488	2.864	99	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	659727	3.537	742712	3.538	89	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	599980	5.193	649819	5.196	92	60 - 140	-0.0030	+/-0.50	
SV-1 (24D2090-01)			Lab File ID: L24A108017.D			Analyzed: 04/17/24 18:17			
Bromochloromethane (1)	260746	2.875	264488	2.864	99	60 - 140	0.0110	+/-0.50	
1,4-Difluorobenzene (1)	688459	3.543	742712	3.538	93	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	625489	5.195	649819	5.196	96	60 - 140	-0.0010	+/-0.50	
Duplicate (B372002-DUP1)			Lab File ID: L24A108018.D			Analyzed: 04/17/24 18:45			
Bromochloromethane (1)	263308	2.869	264488	2.864	100	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	697586	3.543	742712	3.538	94	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	634268	5.195	649819	5.196	98	60 - 140	-0.0010	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S103392-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	3.93	1.122255	0.8826956		-21.3	30
Benzene	A	5.00	5.49	0.7254293	0.79609		9.7	30
Benzyl chloride	A	5.00	5.11	0.65192	0.666753		2.3	30
Bromodichloromethane	A	5.00	5.42	0.5567047	0.6035955		8.4	30
Bromoform	A	5.00	5.79	0.4926101	0.5707041		15.9	30
Bromomethane	A	5.00	5.35	0.6308676	0.6747951		7.0	30
1,3-Butadiene	A	5.00	5.06	0.551149	0.5579565		1.2	30
2-Butanone (MEK)	A	5.00	4.32	1.381604	1.195088		-13.5	30
Carbon Disulfide	A	5.00	5.31	2.063757	2.191749		6.2	30
Carbon Tetrachloride	A	5.00	5.11	0.5110368	0.5218604		2.1	30
Chlorobenzene	A	5.00	5.59	0.7219812	0.8070383		11.8	30
Chloroethane	A	5.00	4.79	0.411751	0.3943498		-4.2	30
Chloroform	A	5.00	5.46	1.439332	1.572886		9.3	30
Chloromethane	A	5.00	5.04	0.6101459	0.6153897		0.9	30
Cyclohexane	A	5.00	4.97	0.3030286	0.3013475		-0.6	30
Dibromochloromethane	A	5.00	5.68	0.5644122	0.6414069		13.6	30
1,2-Dibromoethane (EDB)	A	5.00	5.58	0.5076449	0.5665922		11.6	30
1,2-Dichlorobenzene	A	5.00	5.28	0.6234765	0.6579506		5.5	30
1,3-Dichlorobenzene	A	5.00	5.96	0.6267236	0.7473195		19.2	30
1,4-Dichlorobenzene	A	5.00	5.93	0.5801365	0.6879405		18.6	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.34	1.768079	1.886664		6.7	30
1,1-Dichloroethane	A	5.00	4.68	1.392824	1.302768		-6.5	30
1,2-Dichloroethane	A	5.00	4.54	0.9772927	0.8883458		-9.1	30
1,1-Dichloroethylene	A	5.00	4.83	1.127187	1.088902		-3.4	30
cis-1,2-Dichloroethylene	A	5.00	5.17	0.908952	0.9406249		3.5	30
trans-1,2-Dichloroethylene	A	5.00	4.60	1.128232	1.037295		-8.1	30
1,2-Dichloropropane	A	5.00	5.90	0.2601948	0.3072006		18.1	30
cis-1,3-Dichloropropene	A	5.00	5.74	0.3962271	0.4544556		14.7	30
trans-1,3-Dichloropropene	A	5.00	4.88	0.3522842	0.343933		-2.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.40	1.784687	1.929276		8.1	30
1,4-Dioxane	A	5.00	5.18	0.1742852	0.1805039		3.6	30
Ethanol	A	5.00	4.68	0.1732414	0.1620157		-6.5	30
Ethyl Acetate	A	5.00	4.15	0.2390169	0.1985481		-16.9	30
Ethylbenzene	A	5.00	5.61	1.176902	1.319784		12.1	30
4-Ethyltoluene	A	5.00	5.12	1.247069	1.276033		2.3	30
Heptane	A	5.00	5.40	0.2286847	0.2471677		8.1	30
Hexachlorobutadiene	A	5.00	4.36	0.4755616	0.4145844		-12.8	30
Hexane	A	5.00	4.04	0.7442178	0.6011131		-19.2	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S103392-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.15	0.5993899	0.616893		2.9	30
Isopropanol	A	5.00	4.56	1.180699	1.076749		-8.8	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.44	2.130891	1.89036		-11.3	30
Methylene Chloride	A	5.00	4.55	0.8716214	0.7924564		-9.1	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.43	0.2414371	0.2623014		8.6	30
Naphthalene	A	5.00	4.27	0.954618	0.8158875		-14.5	30
Propene	A	5.00	5.52	0.4075236	0.4496839		10.3	30
Styrene	A	5.00	5.57	0.6680173	0.7446283		11.5	30
1,1,2,2-Tetrachloroethane	A	5.00	6.63	0.6838293	0.9071277		32.7	30 *
Tetrachloroethylene	A	5.00	5.37	0.4174566	0.4482553		7.4	30
Tetrahydrofuran	A	5.00	3.08	0.9111963	0.560836		-38.5	30 *
Toluene	A	5.00	5.48	0.9385805	1.028412		9.6	30
1,2,4-Trichlorobenzene	A	5.00	4.07	0.3693275	0.3007705		-18.6	30
1,1,1-Trichloroethane	A	5.00	5.10	0.5075792	0.5174786		2.0	30
1,1,2-Trichloroethane	A	5.00	6.36	0.309655	0.3936235		27.1	30
Trichloroethylene	A	5.00	5.17	0.3356598	0.3469038		3.3	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.93	1.816743	1.790569		-1.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.18	1.436582	1.488249		3.6	30
1,2,4-Trimethylbenzene	A	5.00	5.44	1.021302	1.110985		8.8	30
1,3,5-Trimethylbenzene	A	5.00	5.51	1.055296	1.163652		10.3	30
Vinyl Acetate	A	5.00	6.14	1.463541	1.797967		22.9	30
Vinyl Chloride	A	5.00	5.42	0.7105757	0.7702429		8.4	30
m&p-Xylene	A	10.0	11.4	0.9711506	1.104918		13.8	30
o-Xylene	A	5.00	5.62	0.9550518	1.072929		12.3	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

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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

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

Log In Back-Sheet

Client BE3
 Project 375 michigan
 MCP/RCP Required —
 Deliverable Package Requirement —
 Location michigan
 PWSID# (When Applicable) —
 Arrival Method caner
 Received By / Date / Time KMC 4/17/24 1002
 Back-Sheet By / Date / Time RLT 4/17/24 1051
 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:

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	1	3L	1	24hr	Nut/Ferrule	1	IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s	5		10		15		Regs #'s	5		10		15	
1 <u>213</u>	6		11		16		1 <u>3027</u>	6		11		16	
2	7		12		17		2	7		12		17	
3	8		13		18		3	8		13		18	
4	9		14		19		4	9		14		19	
Unused Media	4		9		14		Pufs/TO-17's	5		10		15	
1	5		10		15		1	6		11		16	
2	6		11		16		2	7		12		17	
3	7		12		17		3	8		13		18	
4	8		13		18		4	9		14		19	

APPENDICES