SUBSURFACE PHASE II ENVIRONMENTAL SITE ASSESSMENT

OLD FALLS STREET SITE
NIAGARA FALLS, ERIE COUNTY, NEW YORK

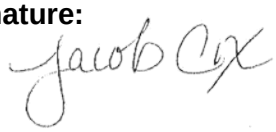
Prepared for:

Edgemere Development, Inc.
277 Alexander Street, Suite 400
Rochester, NY 14607

Prepared by:

Brydges Engineering in Environment and Energy
960 Busti Ave Suite B-150
Buffalo, New York, 14213
716-249-6880

AMD Environmental Consultants, Inc.
Canalside Commons 72 E. Niagara Street, Suite 100
Tonawanda, NY 14150
716-833-0043

Prepared By: Jacob Cox, E.I.T.	**Signature:** 	**Date:** 04/2023	**Title:** BE3– Environmental Engineer
Reviewed By: Peter J. Gorton	**Signature:** 	**Date:** 04/2023	**Title:** BE3- Senior Scientist

April 2023

TABLE OF CONTENTS

1.0 INTRODUCTION

Brydges Engineering in Environment and Energy (BE3) and AMD Environmental Consultants, Inc. (AMD) completed a Phase II Environmental Site Assessment (ESA) for the property located at the corner of Old Falls Street and 1st Street, Erie County, New York (refer to **Figure 1**). The Subsurface Assessment/Phase II ESA was completed in accordance with ASTM E1903-19 - Standard Guide for Environmental Site Assessments: - Phase II Environmental Site Assessment Process 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 included an investigation across the property (refer to **Figure 2**). The purpose of the assessment was to obtain information and data for assessing potential eligibility for the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

1.1 BACKGROUND

1.1.1 General Site Setting

The property contains a vacant two-story commercial building known as the Smokin' Joe's Native Center and was formerly used as a retail store and graphics center. The property is bound by 1st Street to the west, Old Falls Street to the south, a commercial building to the east, and a large parking lot to the north. The surrounding area is mixed use residential/commercial.

1.1.2 Physical Setting

While the property is on a larger 2-acre parcel, the subject project focus is on the northern smaller portion of the property. The subject property includes less than an acre of the larger parcel in the northern half of the larger parcel. Future plans include demolition of the current structure and construction of a seventy-six-unit six story building on this northern section. The property is at an elevation of 575 feet, and located at 43º 5' 12.88" N; Longitude 79º 3' 39.82" W. The area has been historically mixed commercial with some residential. The property to the north is a large parking lot. The Sheraton Inn is adjacent to the subject property to the east and the Rainbow Bridge parking garage to the west. To the south is a vacant commercial building. The subject property surrounds a church and parking area and is immediately adjacent.

1.1.3 Historical Use

Historical records including street directories and Sanborn Maps suggest that the site was mixed use residential and commercial. Some of these uses include hotels, storefronts, a furniture store, a department store, auto parking, and leather good manufacturing. Two gas tanks were located on the northwest corner of the subject property from 1950-1970.

1.1.4 Contaminants of Concern

The history and use of the subject property suggests there were potential environmental impacts associated with fill material and its historical use as well as adjacent properties past industrial use. Potential contaminants include metals, polycyclic aromatic hydrocarbons (PAHs), petroleum and solvents.

1.2 SCOPE

The objective of this environmental assessment was to assess the potential for environmental impacts indicated by historical use at/adjacent to the subject property and to determine if it is eligible for the BCP. This was completed by performing a field assessment of near surface and subsurface soil. Overburden groundwater was not assessed due to lack of water present at boring depths.

1.3 PREVIOUS INVESTIGATIONS

A previous Phase I environmental site assessment was performed on the subject property by LiRo Engineers Inc. in October 2018 to identify the presence or likely presence of recognized environmental conditions (RECs). Two gasoline tanks were located on-site in the northwest corner from 1950 to 1970. This was identified as a REC.

A subsequent Phase II was performed in February 2019 to investigate potential impacts in soil and soil gas on the subject property. No environmental impacts were found to be present due to the REC identified in the Phase I, however, urban fill was observed. Analytical results indicate elevated levels of metals and SVOCs above restricted residential and commercial SCOs. Therefore, this scope was a follow-up to the previous Phase I/II ESAs and directed at the urban fill conditions.

2.0 FIELD INVESTIGATIONS

The subsurface assessment field work for the subject property was completed on March 8 and9, 2023, and April 3, 2023. Prior to conducting the Phase II ESA, the utility locate center was notified to mark underground utilities on the property. The following is a summary of the Phase II tasks.

2.1 Geotechnical Investigation

A geotechnical investigation was performed by Foundation Design, P.C. A total of four borings were advanced on the property to assess the subsurface for geotechnical purposes. BE3 was on-site for environmental oversight. All borings were backfilled with soil from each boring. There were no overt indications of environmental concerns from the past petroleum use observed during the geotechnical task. Urban fill conditions were confirmed.

2.2 SOIL SAMPLING

BE3/AMD completed an assessment of near-surface soils across the property by advancing a total of ten soil borings at specific locations across the property. Borings BH1 through BH9 were

completed inside the northern portion of the structure. BH10 was completed outside of the structure just north of the church parking lot. (See **Figure 2**). A total of 10 grab soil samples were collected for submission for laboratory analysis.

Soil borings were field located to assess the subsurface specific to previous property use and to ensure coverage across the parcel. Boring depths ranged from 2 to 9.5 feet below ground surface (bgs). The borings were completed using a Geoprobe® unit which employs direct push technology. Continuous soil sampling was performed using Macro Core soil samplers measuring approximately 44 inches in length and 1½ inches in diameter with acetate liners resulting in approximately 4-foot length distinct sample cores (i.e., 0 to 4 feet, 4 to 8 feet, 8 to 12 feet). Each of the samplers was fitted with a new acetate liner prior to use. A photolog of field activities is included in **Appendix A.** Stratification of material observed in each boring are noted on boring logs, which are included in **Appendix B**.

Soil from each soil core was visually described and field screened for volatile organic compounds (VOCs) using a MiniRae 3000+ photoionization detector (PID) with a 10.6 eV Lamp and by visual and olfactory observations. Soil cores from borings were transported to a staging area adjacent to each borehole. The soil core was opened, and the length of the core was examined visually and with PID. Odors, PID results, and observations were noted on the boring logs. A total of twelve (12) grab subsurface soil samples were collected at specific locations and depths from fill material as follows:

- BH1 at 3-6 and 7-8 feet below ground surface (bgs). Total depth of boring was 8 feet bgs;
- BH2 at 3-6 and 3-4 feet bgs. Total depth of boring was 8 feet bgs;
- BH3 at 3-7 feet bgs. Total depth of boring was 8 feet bgs;
- BH4 at 1-2 feet bgs. Total depth of boring was 2 feet bgs;
- BH5 at 3-6 feet bgs. Total depth of boring was 9.5 feet bgs;
- BH6 at 2-4 feet bgs. Total depth of boring was 6.5 feet bgs;
- BH7 at 1-4 feet bgs. Total depth of boring was 6 feet bgs;
- BH8 at 2-4 feet bgs. Total depth of boring was 4.5 feet bgs;
- BH9 at 2-4 feet bgs. Total depth of boring was 8 feet bgs;
- BH10 at 2-4 feet. Total depth of the boring was 4.5 feet bgs;

All soil borings were backfilled with the soil from the boring. All soil samples were taken below asphalt and asphalt subbase or the structures floor/subbase which ended approximately one-half foot bgs. The soil samples were submitted to Eurofins Buffalo Laboratory, a NYSDEC approved laboratory, for analysis.

2.2 Groundwater Sampling

Groundwater was not observed in the borings and therefore no groundwater samples were collected.

2.3 Subsurface Conditions

The borings indicate that shallow subsurface conditions generally consisted of fill with brown to black silty clayey sand with some debris such as brick and concrete. Fill depths ranged from 0 to 8 bgs. Below the fill in most locations was stiff red-brown silty clay or clayey silt. Bedrock was encountered at 8 feet in one location; however, refusal of the drill rig was observed due to debris in the fill. The boreholes were completed to a range of 2 to 9.5 feet below ground surface. (Refer to borehole logs in **Appendix B.** The geotechnical borings indicate bedrock at depth of approximately 11 feet bgs consisting of weathered dolomite.

3.0 RESULTS

The results of the Phase II assessment indicated the following:

- Fill exists across the property to about 8 feet in most locations.
- The fill contains elevated levels of metals primarily lead and barium and semi volatile organic compounds primarily PAHs.

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

3.1 SOIL

A total of twelve (12) soil samples were collected for analysis. Ten (10) soil samples were analyzed for NYSDEC Part 375 metals by EPA Method 6010C and NYSDEC Part 375 SVOCs by EPA Method 8270D. Four (4) of the samples were analyzed for NYSDEC Part 375 VOCs by EPA Method 8260 C.

Metals

Metal compounds were observed in all soil samples analyzed. A summary of metals above NYSDEC SCOs is provided in **Table 1** and **Figure 2**. The following results were above NYSDEC SCOs:

- Barium was above commercial SCOs in BH4 (885 ppm), BH5 (827 ppm), and BH6 (4,950).
- Lead exceeded restricted residential SCOs in BH4 (490 ppm) and BH6 (904 ppm)
- Mercury exceeded the restricted residential SCO in BH1 (0.43 ppm), BH6 (0.58), BH8 (0.46), BH9 (0.53), and BH10 (0.76).

Other metals were above unrestricted SCOs in various samples across the property – refer to **Table 1** and **Figure 2**.

Semi-Volatile Organic Compounds (SVOCs)

SVOC compounds were observed in all soil samples analyzed. A summary of SVOCs above NYSDEC SCOs is provided in **Table 1** and **Figure 2**. The following results were above NYSDEC SCOs:

- Benzo(a)anthracene was above restricted residential SCOs in BH4 (3.0 ppm), BH6 (9.8 ppm), BH7 (1.9 ppm) and BH9 (1.8 ppm).
- Benzo(a)pyrene was above commercial SCOs in BH6 (8.2 ppm) and above restricted residential in BH4 (2.8), BH7 (2.0), and BH9 (1.7).
- Benzo(g,h,i)perylene was above restricted residential SCOs in BH6 (5.4 ppm) and above residential SCOs in BH4 (2.0 ppm) and BH7 (1.3 ppm).
- Chrysene was above restricted residential SCOs in BH6 (10.0 ppm) and BH9 (1.6 ppm).
- Dibenz(a,h)anthracene was above restricted residential SCOs in BH4 (0.47 ppm), BH6 (2.1 ppm), and BH7 (0.38 ppm).
- Indeno(1,2,3 c-d)pyrene was above restricted residential SCOs in BH4 (1.8 ppm) and BH6 (5.3 ppm).
- Phenanthrene was above restricted residential SCOs in BH6 (13.0 ppm).

Volatile Organic Compounds (VOCs)

Petroleum-like Odors and elevated PID readings were observed in boreholes BH2, BH8, and BH9. For due diligence, four of the soil samples in boreholes and at depths that indicated the highest PID readings were collected for VOC analysis at the laboratory. While some VOCs were detected, no exceedances were found in the soil samples analyzed for volatile organic compounds and tentatively identified compounds (TICS).

3.2 GROUNDWATER

As stated, groundwater was not encountered in the boreholes and therefore no samples were collected.

4.0 CONCLUSIONS

The purpose of this assessment was to identify potential environmental impacts at Old falls Street Site in Niagara Falls, New York. The property was previously commercial and had a history of two gasoline tanks located on-site in the northwest corner. Adjacent properties also have a history of commercial use, and a railroad was present in the northeast corner.

The laboratory results indicate that there are urban fill conditions existing at the property to at least 0-8 feet bgs resulting in target compounds (metals and SVOCs) above NYSDEC restricted residential and industrial SCOs. Historical use, previous environmental investigations, and this assessment indicate environmental impacts exist on the property in soils above NYSDEC SCOs.

5.0 WARRANTS AND LIMITATIONS

This report is based on information from limited soil sampling and visual observations of the soils as well as a review of a previous Phase I ESA 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 Edgemere Development. 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 been evaluated.

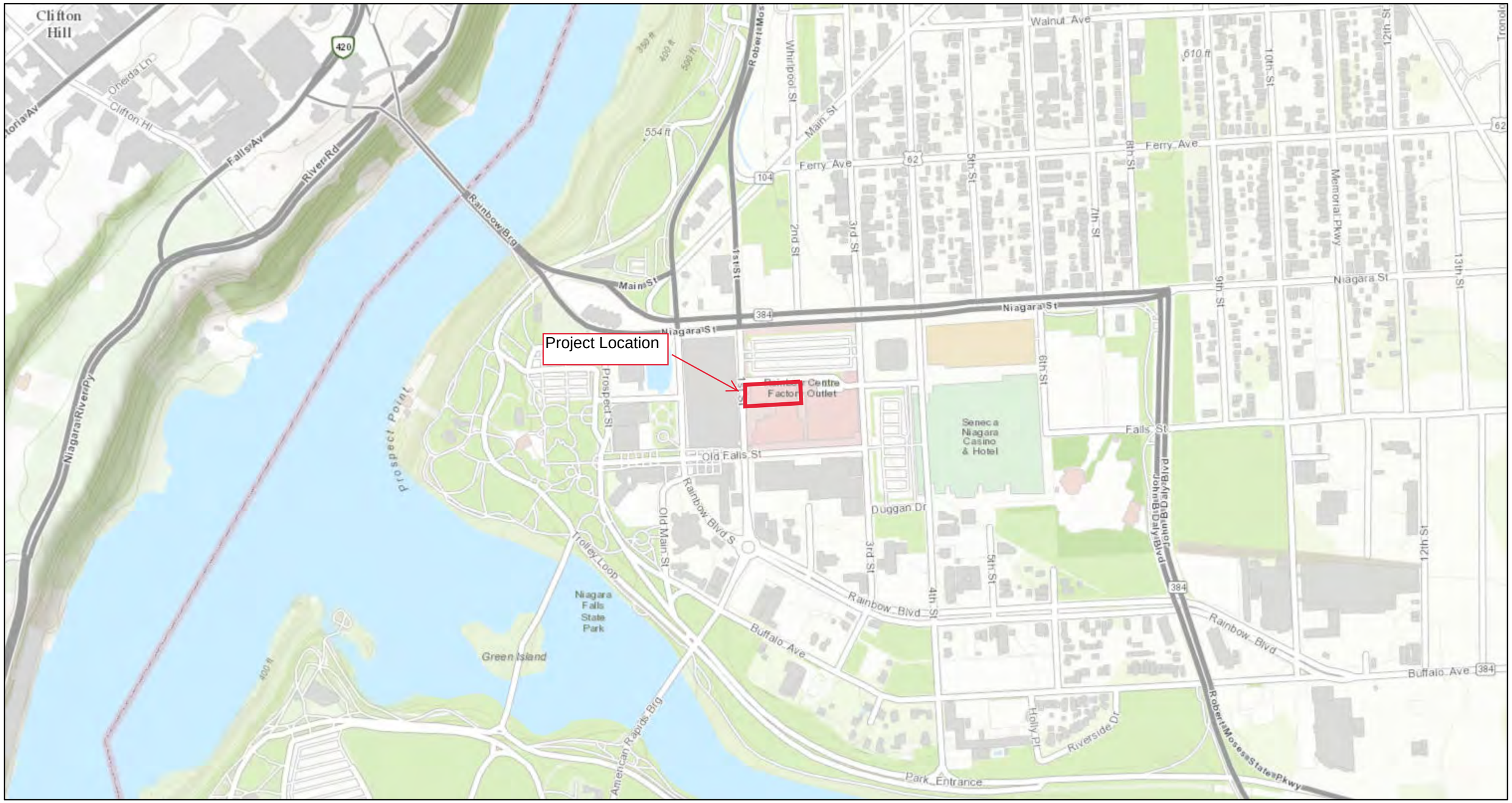
6.0 PROFESSIONAL STATEMENT/SIGNATURE

This subsurface assessment at Old Falls Street Site, Niagara Falls, New York was performed in conformance with the scope and limitations of ASTM Practice E 1903-11 for the specific objectives specified in the report and was completed based on the scope of work provided by the banks' consultant. I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in 312.10 of 40CFR312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquires in conformance with the standards and practices set forth in 40 CFR 312.

Peter J Gorton, MPH; CHCM — 4/18/2023 Date

FIGURES & TABLES

ArcGIS Web Map



4/17/2023, 11:59:16 AM

☐ Municipal Boundaries

Figure 1: Project Location

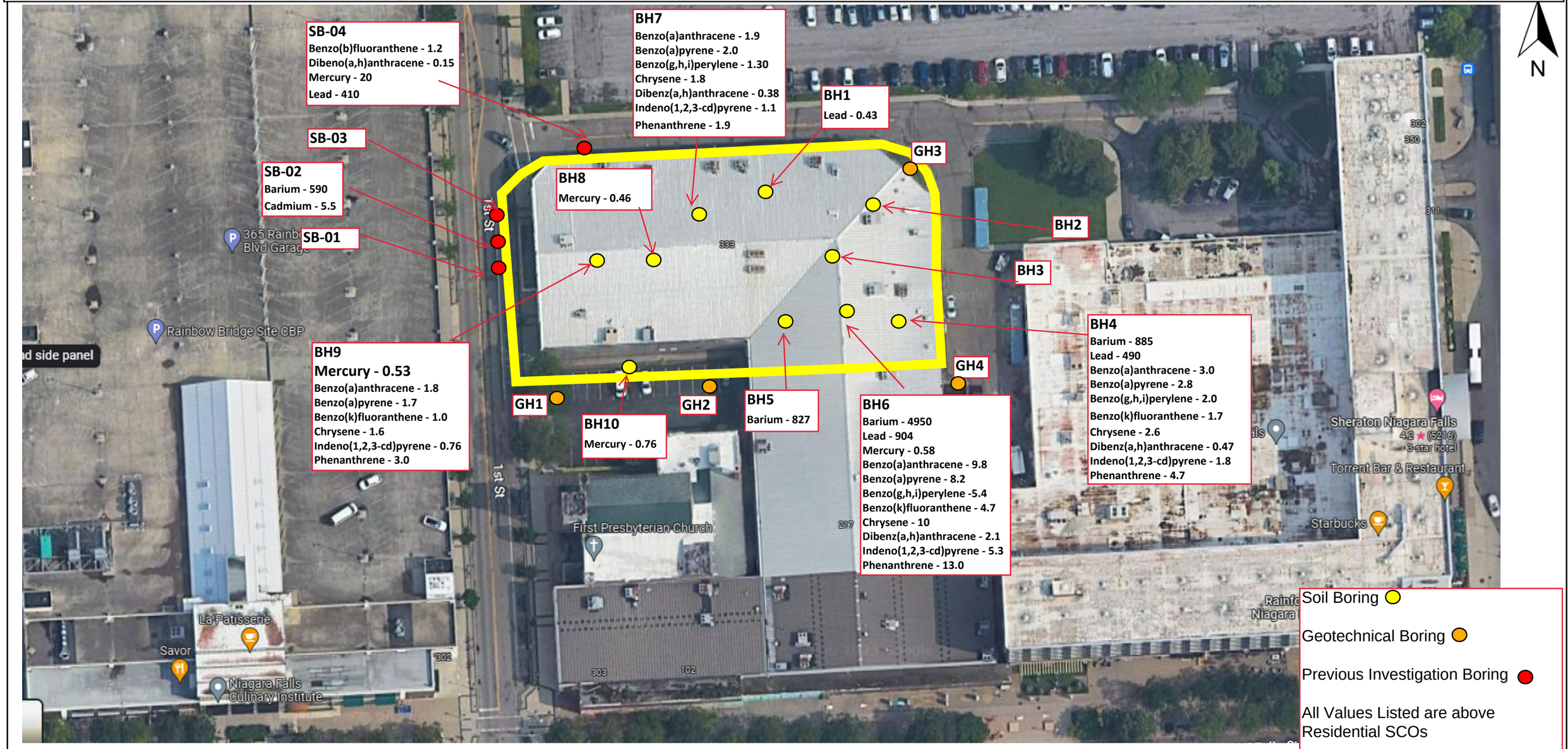
1:9,028

0 0.07 0.15 0.3 mi

0 0.13 0.25 0.5 km

City of Niagara Falls, City of Welland, Niagara Region, Regional Municipality of Niagara, Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA,

Figure 2: Old Falls Street Boring Locations



BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC	Figure 2: Old Falls Street Boring Locations	
	Old Falls Street	4/3/2023
	Niagara Falls, New York	Edgemere

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Phase II Report April 2023 - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date								NYSDEC Soil Cleanup Objectives (SCOs)				
	BH1 3-6	BH4 1-2	BH5 3-6	BH6 2-4	BH7 1-4	BH8 2-4	BH9 2-4	BH10 2-4	Unrestricted	Residential	Restricted Residential	Commerical	Industrial
	3/9/2023	4/3/2023											
METALS/INORGANICS													
Arsenic	1.8	5.1	4.5	4.9	4.0	4.7	6.0	3.6	13	16	16	16	16
Barium	20.9	**885**	**827**	**4950**	63	87.7	73	128	410	410	410	410	10,000
Beryllium	0.5	0.40	0.17 J	0.43	0.31	0.45	0.45	0.24	4.4	8.8	43	670	750
Cadmium	1.1	0.66	0.58	0.98	0.56	0.87	1.40	0.67	2.5	2.5	2.5	3.7	4.4
Chromium	4.9	13.7	14.6	18.4	9.8	16.0	13.2	15.8	30	30	110	1,700	2,000
Copper	8.9	18.7	16.1	25.6	16.8	22.8	19.0	17.7	50	280	280	280	10,000
Lead	**65**	**490**	**100**	**904**	**115**	**154**	**134**	**185**	63	400	400	1,000	3,900
Manganese	647	495 B	464 B	585 B	425 B	556 B	589 B	505 B	1,600	2,000	2,000	10,000	10,000
Mercury	**0.43**	0.13	0.33	**0.58**	0.24	**0.46**	**0.53**	**0.76**	0.18	0.26	0.26	1.1	1.1
Nickel	3.6 J	10.0	7.7	9.5	8.7	12.8	13.5	7.3	30	44	210	320	3,400
Selenium	1.2 J	ND	ND	ND	ND	ND	0.61 J	ND	4	22	110	1,700	2,000
Silver	ND	ND	0.27 J	0.34	ND	0.35 J	0.42 J	ND	2	22	110	1,700	2,000
Zinc	**324**	**394**	**476**	**638**	**241**	**331**	**441**	**241**	109	1,300	6,600	10,000	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)													
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	20	100	100	500	1,000
Acenaphthylene	ND	0.42 J	ND	2.7 J	0.27 J	ND	ND	ND	100	100	100	500	1,000
Anthracene	ND	1.1 J	ND	2.8 J	0.57 J	ND	0.93 J	ND	100	100	100	500	1,000
Benzo(a)anthracene	ND	**3**	ND	**9.8**	**1.9**	0.89 J	**1.8 J**	ND	1	1	1.4	37	37
Benzo(a)pyrene	ND	**2.8**	ND	**8.2**	**2.0**	0.79 J	**1.7 J**	0.41 J	1	1	1	3.7	3.7
Benzo(b)fluoranthene	ND	2.8	ND	11.0	2.3	0.9 J	**1.7 J**	0.46 J	1	1	1.4	37	37
Benzo(g,h,i)perylene	ND	**2**	ND	**5.40**	**1.30**	0.53 J	**0.82 J**	0.23 J	0.64	1.2	4.9	47	78
Benzo(k)fluoranthene	ND	**1.7 J**	ND	**4.70**	**0.88**	0.5 J	**1.0 J**	0.28 J	0.8	1.2	4.9	47	78
Chrysene	ND	**2.6**	ND	**10**	**1.8**	0.81 J	**1.6 J**	0.44 J	1	1.2	4.9	47	78
Dibenz(a,h)anthracene	ND	**0.47 J**	ND	**2.1 J**	**0.38 J**	ND	ND	ND	0.33	0.33	0.33	3.7	3.7
Dibenzofuran	ND	0.24 J	ND	0.48 J	ND	ND	ND	ND	2.1	4.2	18	180	290
Fluoranthene	0.31 J	7.1	ND	22.0	4.0	1.8 J	4.1	1.1 J	85	100	100	500	1,000
Fluorene	ND	0.3 J	ND	ND	ND	ND	0.29 J	ND	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	ND	**1.8**	ND	**5.3**	**1.1 J**	0.45 J	**0.76 J**	ND	0.5	0.5	1.4	37	37
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	12	84	100	500	1,000
Phenanthrene	ND	**4.7**	ND	**13.0**	**1.9**	0.77 J	**3.0**	0.56 J	1.1	1.2	4.9	47	78
Pyrene	0.26 J	4.6	ND	14.0	2.7	1.3 J	2.9	0.7 J	64	100	100	500	1,000
VOLATILE ORGANIC COMPOUNDS (VOCs)													
1,2,4-Trimethylbenzene	-	-	-	-	-	ND	ND	-	0.51	0.51	0.52	2.2	2.2
1,3,5-Trimethylbenzene	-	-	-	-	-	ND	ND	-	0.51	0.51	0.52	2.2	2.2
2-Butanone (MEK)	-	-	-	-	-	ND	0.0059 J	-	0.1	100	100	500	1,000
Acetone	-	-	-	-	-	0.009 J	0.052	-	0.03	100	100	500	1,000
Benzene	-	-	-	-	-	ND	0.00027 J	-	0.06	1.2	3.7	20	20
Chloroform	-	-	-	-	-	0.00051	0.00049 J	-	0.37	4.8	24	180	180
Ethylbenzene	-	-	-	-	-	ND	ND	-	1	32	76	390	390
Toluene	-	-	-	-	-	ND	ND	-	0.7	100	100	500	1,000
Xylenes, Total	-	-	-	-	-	ND	ND	-	0.26	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

APPENDICES

APPENDIX A

Field Activity Photolog

960 Busti Ave.
Buffalo, New York 14213

DAILY FIELD REPORT

Date:	Wednesday, March 8, 2023
Site Name:	River Road
Location:	Old Falls St.
Contractor/Sub-Contractor:	AMD Edgemere
Weather Conditions:	Sunny 30 ˚F N 12mph

Description of Work Performed:

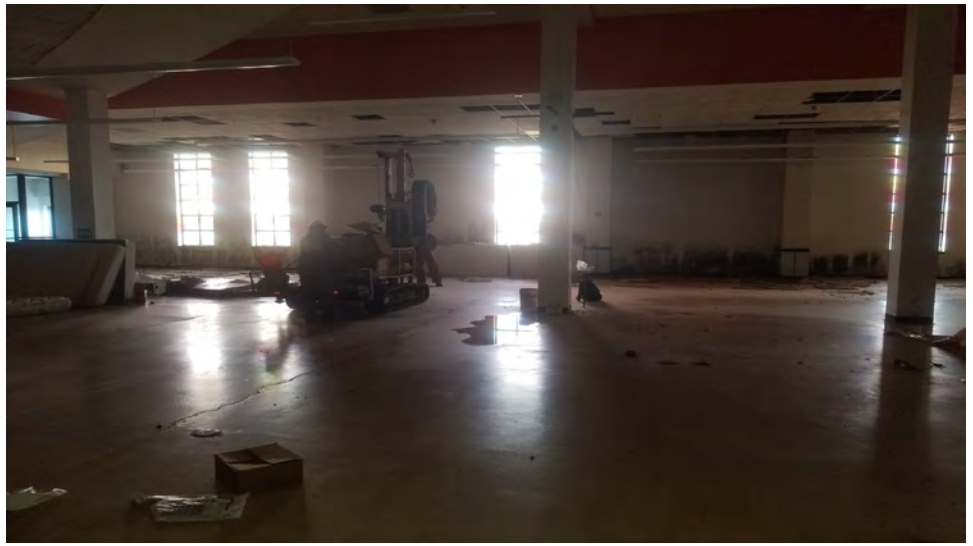
Contractor is boring 4 locations to bedrock. Used handheld PID meter to check for VOC's.

Hamilton and Sterns and EBD on-site to inspect building in preperation for demolition.

Problems/Observations:	None.
Health and Saftey Concerns:	None.
Contractor Work Force:	
Contractor Equipment	
Attachments : Photo Log	
Inspectors Name	Libby Broderick/Pete Gorton

Date: 3/9/2023

1. BH1 Location. (Facing West)



2. BH1 Location. (Facing North)

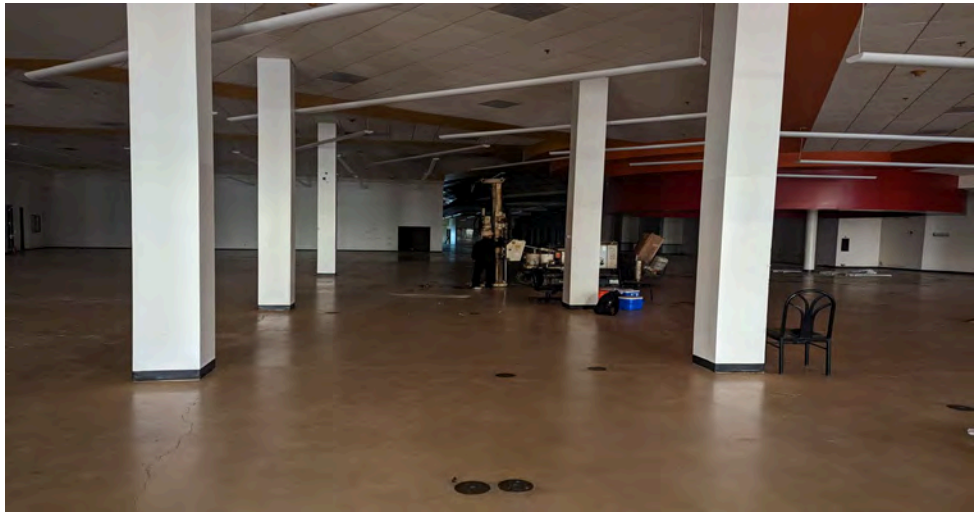
3. BH1 soil cores.

4. BH2 Location. (Facing North)

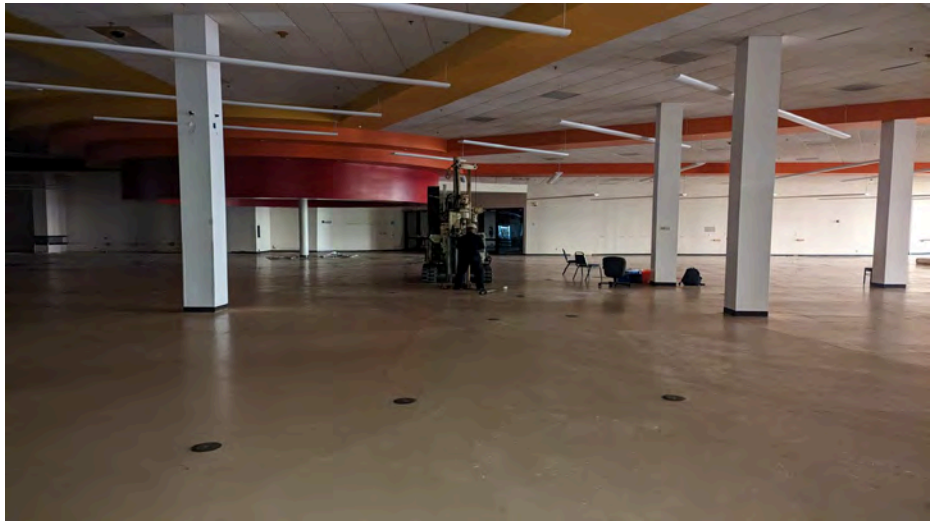
Date: 3/9/2023

5. BH2 Location (Facing East)

6. BH2 soil cores.



7. BH3 Location. (Facing South)



8. BH3Location. (Facing West)

Date: 4/3/2023

9. BH3 soil cores.

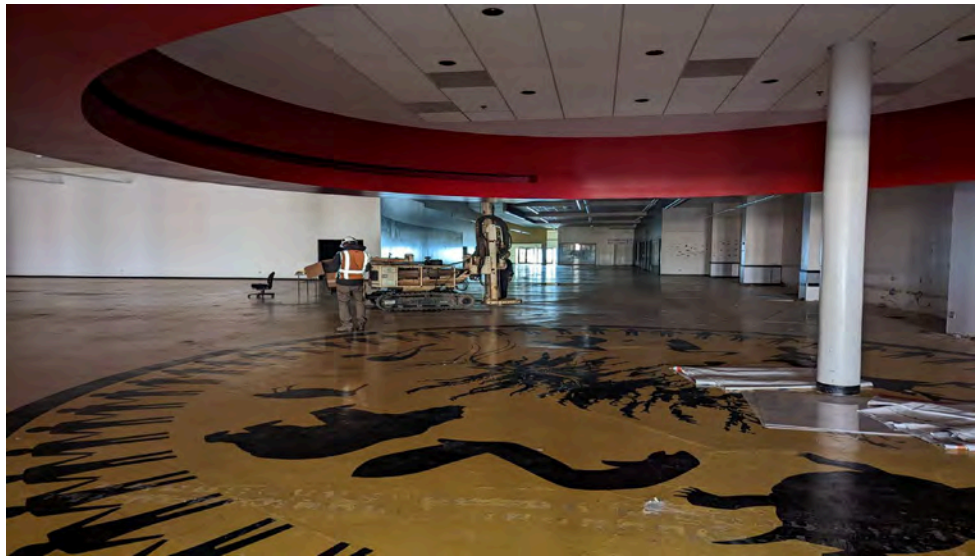
10. BH4 Location. (Facing north)

11. BH4 Location. (Facing East)

12. BH4 soil cores.

Date: 4/3/2023

13 BH5 Location. (Facing North)



14. BH5 Location. (Facing South)

15. BH5 soil cores.

16. BH6 Location. (Facing East)

Date: 4/3/2023

17. BH6 Location. (Facing South)

18. BH6 soil cores.

19. BH7 Location. (Looking Northeast)

20. BH7 Location. (Looking Northeast)

Date: 4/3/2023

21. BH7 soil cores.

22. BH8 Location. (Facing East)

23. BH8 Location. (Facing West)

24. BH9 Location. (Facing East)

Date: 4/3/2023

25. BH9 Location. (Facing East)

26. BH9 soil cores.

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

27. BH10 Location. (Facing East)

28. BH10 Location. (Facing Northwest)

Date: 4/3/2023

29. BH10 soil cores.

BE3
BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

APPENDIX B

Boring Logs

Foundation Design, P.C.

Boring Log

Project No.	5357.0	**Page** 1 **of** 1		**Test Boring No.**	B23-1
Project Name	Old Falls Street Development, Old Falls @ 1st Street, Niagara Falls, New York				
Client	Edgemere Development, Inc., 277 Alexander Street, Suite 400, Rochester, New York 14607				
Elevation	98.2	**Weather**	Sunny 30s	**Engineer**	B. Valentino
Date Started	3/8/2023	**Completed**	3/8/2023	**Driller**	Art
Drilling Company:	SJB Services			**Drilling Equipment:**	CME 550X

Ft.	Blows Per Six Inches 0"/6"	6"/12"	12"/18"	18"/24"	N Value	Sample No.	Depth	Rec	Visual Soil and Rock Classifications / Remarks
		8							ASPHALT 0'6"
			8	12	16	S-1	0'6"-2'	10"	FILL: Firm dark brown damp SAND, some silt, some gravel, trace organics
	14	10							
			8	18	18	S-2	2'-4'	5"	
5	6	4							S-3: Loose, trace brick
			4	4	8	S-3	4'-6'	3"	
	50/1"				50/1"	S-4	6'-6'1"	1"	S-4: Very dense, poor recovery Obstruction from 6'7" to 7'0"
	7	50/3"			50/3"	S-5	8'-8'9"	6"	S-5: Rock fragments in shoe
10									Hard augering below 8'9" 8'9"
	50/4"				50/4"	S-6	10'-10'4"	1"	Very dense tan-brown dry SAND and GRAVEL S-6: Trace rock fragment in shoe
									Hard below 10' (1000 psf down pressure) 11'7"
									Boring Terminated at 11'7" Auger Refusal
15									
20									
25									
30									

Notes:
1. Dry upon completion.
2. Advanced hole using hollow stem augers.
3. Bore hole backfilled using auger spoils.

N=No. of blows to Drive 2" Spoon 12" with 140 lb. Wt. 30" Ea. Blow Hammer: Auto Size Rod: 2"

Foundation Design, P.C.

Boring Log

Project No.	5357.0	**Page** 1 **of** 1		**Test Boring No.**	B23-2
Project Name	Old Falls Street Development, Old Falls @ 1st Street, Niagara Falls, New York				
Client	Edgemere Development, Inc., 277 Alexander Street, Suite 400, Rochester, New York 14607				
Elevation	99.3	**Weather**	Sunny 30s	**Engineer**	B. Valentino
Date Started	3/8/2023	**Completed**	3/8/2023	**Driller**	Art
Drilling Company:	SJB Services			**Drilling Equipment:**	CME 550X

Ft.	Blows Per Six Inches 0"/6"	6"/12"	12"/18"	18"/24"	N Value	Sample No.	Depth	Rec	Visual Soil and Rock Classifications / Remarks
		5							ASPHALT 0'5"
			11	14	16	S-1	0'6"-2'	12"	Brown-gray CRUSHER-RUN, some silt 1'0"
	10	10							FILL: Firm dark brown damp SILT, some clay, some gravel, little sand, trace organics
			12	12	22	S-2	2'-4'	12"	S-2: Trace brick
5	8	6							S-3: Trace brick, hard augering 6'-7'
			6	6	12	S-3	4'-6'	4"	6'0"
	14	12							FILL: Firm brown-tan dry SAND and GRAVEL, trace brick
			8	7	20	S-4	6'-8'	4"	8'0"
	4	5							FILL: Firm gray-brown damp SILT, some sand, little to some gravel, little to some clay, trace brick
10			9	9	14	S-5	8'-10'	12"	
	11	50/2"			50/2"	S-6	10'-10'8"	1"	S-6: Rock fragments in shoe
									Hard augering below 10'6" (750 psi down) 11'11"
									Boring Terminated at 11'11" Auger Refusal
15									
20									
25									
30									

Notes:
1. Dry upon completion.
2. Advanced hole using hollow stem augers.
3. Bore hole backfilled using auger spoils.

N=No. of blows to Drive 2" Spoon 12" with 140 lb. Wt. 30" Ea. Blow Hammer: Auto Size Rod: 2"

Foundation Design, P.C.

Boring Log

Project No.	5357.0	**Page** 1 **of** 1		**Test Boring No.**	B23-3
Project Name	Old Falls Street Development, Old Falls @ 1st Street, Niagara Falls, New York				
Client	Edgemere Development, Inc., 277 Alexander Street, Suite 400, Rochester, New York 14607				
Elevation	100.8	**Weather**	Sunny 30s	**Engineer**	B. Valentino
Date Started	3/8/2023	**Completed**	3/8/2023	**Driller**	Art
Drilling Company:	SJB Services			**Drilling Equipment:**	CME 550X

Ft.	Blows Per Six Inches 0"/6"	6"/12"	12"/18"	18"/24"	N Value	Sample No.	Depth	Rec	Visual Soil and Rock Classifications / Remarks
									ASPHALT 0'2"
			11	16	27	S-1	1'-2'	4"	Brown-gray CRUSHER-RUN 0'6"
	48	35							CONCRETE 0'11"
			20	9	55	S-2	2'-4'	4"	FILL: Compact brown-gray damp SAND, some silt, some gravel, trace brick
5	50/4"				50/4"	S-3	4'-4'4"	2"	S-2: Black 4'0"
									Very dense tan dry SAND and GRAVEL
	50/2"				50/2"	S-4	6'-6'2"	1"	Hard augering below 4' (750 psi)
									S-4: Rock fragments in shoe
	50/2"				50/2"	S-5	8'-8'2"	1"	S-5: Rock fragments in shoe 8'6"
10									Boring Terminated at 8'6" Auger Refusal
15									
20									
25									
30									

Notes:
1. Dry upon completion.
2. Advanced hole using hollow stem augers.
3. Bore hole backfilled using auger spoils.

N=No. of blows to Drive 2" Spoon 12" with 140 lb. Wt. 30" Ea. Blow Hammer: Auto Size Rod: 2"

Foundation Design, P.C.

Boring Log

Project No.	5357.0	**Page** 1 **of** 1		**Test Boring No.**	B23-4
Project Name	Old Falls Street Development, Old Falls @ 1st Street, Niagara Falls, New York				
Client	Edgemere Development, Inc., 277 Alexander Street, Suite 400, Rochester, New York 14607				
Elevation	98.4	**Weather**	Sunny 30s	**Engineer**	B. Valentino
Date Started	3/8/2023	**Completed**	3/8/2023	**Driller**	Art
Drilling Company:	SJB Services			**Drilling Equipment:**	CME 550X

Ft.	Blows Per Six Inches 0"/6"	6"/12"	12"/18"	18"/24"	N Value	Sample No.	Depth	Rec	Visual Soil and Rock Classifications / Remarks
									ASPHALT 0'3"
			8	13	21	S-1	1'-2'	4"	CONCRETE 0'11"
	13	14							Firm brown-gray damp CRUSHER-RUN, some silt 2'6"
			14	9	28	S-2	2'-4'	12"	FILL: Compact black damp SILT and SAND, some gravel (asphalt-like) 4'0"
5	7	4							
			11	4	15	S-3	4'-6'	8"	FILL: Firm brown wet SAND and GRAVEL, trace brick
	7	16							S-4: Red-brown below 7', clay ball noted
			7	16	23	S-4	6'-8'	8"	
	5	4							S-5: Very dense, trace asphalt, trace brick,
10			50/5"		54/11"	S-5	8'-9'5"	8"	trace clay, rock fragment in shoe
	50/0"				50/0"	S-6	10'		Very hard augering below 9' 11'0"
									Hard grey horizontally bedded DOLOMITE,
						Core	11'		numerous horizontal fractures,
						Run	To		numerous high-angle/vertical fractures,
15						#1	16'		few vugs, black shale partings noted, chert inclusions noted
									Rec: 60"/60" = 100% RQD: 0"/60" = 0% 16'0"
									Boring Terminated at 16'0"
20									
25									
30									

Notes:
1. Dry upon completion.
2. Advanced hole using hollow stem augers.
3. Bore hole backfilled using auger spoils.

N=No. of blows to Drive 2" Spoon 12" with 140 lb. Wt. 30" Ea. Blow Hammer: Auto Size Rod: 2"

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	3/9/2023	Equipment Model:	Geoprobe
Date Completed:	3/9/2023	Geologist/Technician:	Pete Gorton/Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH1**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
1					
2				0.0	0 - 2 feet - Brown sand and silt, some rock
3				0.0	2 - 3 feet - Brown sand and rock
4				0.0	3 - 4 feet - Brown clay, some rock. Odor present.
5					
6					
7					
8				0.0	4 - 8 feet - Brown sandy silty clay, some rock.
					Rock is covered in shiny/lustery specs. Mineral or metal.
9					Refusal at 8 feet.
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 3-6 feet, metals and SVOCs
Soil sample 7-8 feet, VOCs and TICs

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	3/9/2023	Equipment Model:	Geoprobe
Date Completed:	3/9/2023	Geologist/Technician:	Pete Gorton/Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH2**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
1				0.0	0 - 1 feet - Brown clay, black cinder, some rock. Rock has a shiny luster.
2					
3					
4				0.0	1 - 4 feet - Brown silty sand. Odor present.
5					
6					
7					4 - 7 feet - Brown sily sand, some rock with mineral or metallic luster.
					Odor present.
8					7 - 8 feet - Highly weathered rock.
					Refusal at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 3-6 feet, metals and SVOCs
Soil sample 3-4 feet, VOCs and TICs
Odor Present.

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	4/3/2023	Equipment Model:	Geoprobe
Date Completed:	4/3/2023	Geologist/Technician:	Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH3**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
				0.0	0 - 0.5 feet - Concrete
1					
2				0.0	0.5 - 2 feet - Brown sand, black and white cinder, fill
3					
				0.0	2 - 3.5 feet - Concrete, rock
4				0.0	3.5 - 4 feet - Brown sand, black cinder, fill
5				0.0	4 - 5 feet - concrete
6					
7				0.0	5 - 7 feet - Black/brown/orange/ sandy fill
8					7 - 8 feet - Brown-black silty clay, some rock
					Refusal at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 3-7 feet, metals and SVOCs
No odor present.

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	4/3/2023	Equipment Model:	Geoprobe
Date Completed:	4/3/2023	Geologist/Technician:	Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH4**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
				0.0	0 - 0.5 feet - Concrete
1					
2				0.0	0.5 - 2 feet - Black/brown/orange sandy fill
					Refusal at 2 feet
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 1-2 feet, metals and SVOCs
No odor present.

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	4/3/2023	Equipment Model:	Geoprobe
Date Completed:	4/3/2023	Geologist/Technician:	Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH5**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
				0.0	0 - 0.5 feet - Concrete
1					
2					
					Refusal at 2 feet
3					
4				0.0	0.5 - 4 feet - Black/brown/orange/gray cindery sandy fill, some rock
5				0.0	4 - 5 feet - Black/brown/orange/gray cindery sandy fill, some rock
					slightly wet. No odor
6					
7					
8				0.0	5 - 8 feet - Black/brown/orange/gray cindery sandy fill, some rock,
					concrete, mixed earth.
9					
				0.0	8 -9.5 feet - Black/brown/orange/gray cindery sandy fill, some rock,
10					Refusal at 9.5 feet
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 3-6 feet, metals and SVOCs
No odor present.

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	4/3/2023	Equipment Model:	Geoprobe
Date Completed:	4/3/2023	Geologist/Technician:	Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH6**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
				0.0	0 - 0.5 feet - Concrete
1					
				0.0	0.5 - 1 feet - Concrete, Rock
2					
3					
4				0.0	1 - 4 feet - Black/brown/orange/gray cindery sandy fill, some rock
5					
6					
				0.0	4 - 6.5 feet - Concrete, brown/orange silty urban fill
7					Refusal at 6.5 feet
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 2-4 feet, metals and SVOCs
No odor present.

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	4/3/2023	Equipment Model:	Geoprobe
Date Completed:	4/3/2023	Geologist/Technician:	Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH7**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
				0.0	0 - 0.5 feet - Concrete
1					
				0.0	0.5 - 1 feet - Concrete, Rock
2					
3					
4				0.0	0.5 - 4 feet - Black/brown/orange/white cindery sandy fill, some rock
5					
6					
				0.0	4 - 6 feet - Black/brown/orange/white cindery sandy fill, some rock
7					Refusal at 6 feet
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 1-4 feet, metals and SVOCs
No odor present.

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	4/3/2023	Equipment Model:	Geoprobe
Date Completed:	4/3/2023	Geologist/Technician:	Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH8**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
				0.0	0 - 0.5 feet - Concrete
1					
2				0.0	0.5 - 2 feet - Black cindery fill
3					
				8.4	2 - 3.5 feet - Black/brown/orange sandy fill, some rock
4					PID elevated readings
					3.5 - 4 feet - concrete
5				5.8	4 - 4.5 feet - Brown clay, semitight, orange debris brick, fill
					Refusal at 4.5 feet
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 2-4 feet, metals, SVOCs, and VOCs
No odor present.

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	4/3/2023	Equipment Model:	Geoprobe
Date Completed:	4/3/2023	Geologist/Technician:	Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH9**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
				0.0	0 - 0.5 feet - Concrete
1					
2				0.0	0.5 - 2 feet - Black/gray cindery fill
3				4.0	2 - 3 feet - Brown/Black silty clay, some rock
					PID elevated readings
4				4.0	3 - 4 feet - Brown/Black/orange silty fill, some rock
					PID elevated readings
5					
6					4 - 6 feet - concrete and rock
7					6 - 7 feet - brown silty sandy fill
					7 - 7.5 feet - rock
8					7.5 - 8 feet - brown silty sandy fill, some debris
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 2-4 feet, metals, SVOCs, and VOCs
No odor present.

Geoprobe
Bore Hole Log

BE3 BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		Old Falls Street - Phase II	
Client:	AMD-Edgemere	Location:	Old Falls Street and 1st Street, Niagara Falls, New York 14303
Contractor:	SJB	Lat/Long:	
Date Started:	4/3/2023	Equipment Model:	Geoprobe
Date Completed:	4/3/2023	Geologist/Technician:	Jacob Cox
Operator:	Art Koske (SJB)	Ground Water:	N/A
Bore Hole Number:	**BH10**	Depth to Bedrock:	N/A

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
				0.0	0 - 0.5 feet - Stone
1				0.0	0.5 - 1 feet - Sandy silty soil, some stone
2				0.0	1 - 2 feet - Slightly moist silty clay, some brick and rock
3					
4				0.0	2 - 4 feet - Silty sandy clay, black/gray cinder
5					Refusal at 4.5 feet
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments:
Soil sample 2-4 feet, metals and SVOCs
No odor present.

APPENDIX C

Laboratory Data

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/16/2023 3:07:40 PM

JOB DESCRIPTION

BE3 Corp - Old Falls Street

JOB NUMBER

480-206817-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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
3/16/2023 3:07:40 PM

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

Table of Contents

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

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.

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
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.
¤	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

Glossary (Continued)

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

Job ID: 480-206817-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-206817-1

Comments
No additional comments.

Receipt
The samples were received on 3/9/2023 4:30 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 was 3.4° C.

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

GC/MS Semi VOA
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 sample contained an allowable number of surrogate compounds outside limits: (LCS 480-661199/2-A). These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-661256 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

Metals
Methods 6010, 6010C: The continuing calibration blank (CCB 480-661551/28) contained Total Manganese above the reporting limit (RL). All reported samples BH1 3-6FT (480-206817-1), BH2 3-6FT (480-206817-3), (LCDSRM 480-661318/3-A), (LCSSRM 480-661318/2-A), (MB 480-661318/1-A), (480-206817-B-1-B MS), (480-206817-B-1-C MSD), (480-206817-B-1-A PDS) and (480-206817-B-1-A SD ^5) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010C: The following samples were diluted due to the presence of Total Calcium which interferes with Copper: BH1 3-6FT (480-206817-1), BH2 3-6FT (480-206817-3), (480-206817-B-1-B MS ^5), (480-206817-B-1-C MSD ^5), (480-206817-B-1-A PDS ^5) and (480-206817-B-1-A SD ^25). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Client Sample ID: BH1 3-6FT — Lab Sample ID: 480-206817-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	31	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Pyrene	26	J	190	22	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.8	J	2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	20.9	F1 F2	0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.48		0.23	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.1		0.23	0.035	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.9		0.58	0.23	mg/Kg	1	☼	6010C	Total/NA
Copper	8.9	F1	5.8	1.2	mg/Kg	5	☼	6010C	Total/NA
Lead	65.4	F1 F2	1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Manganese	647	^2	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	3.6	J	5.8	0.27	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.2	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Zinc	324		2.3	0.74	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.43		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH1 7-8FT — Lab Sample ID: 480-206817-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.0	J vs	5.6	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.65	J vs	5.6	0.36	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.36	J vs B	5.6	0.35	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.43	J vs	5.6	0.39	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.6	J vs	5.6	0.43	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.2	J vs	11	0.95	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: BH2 3-6FT — Lab Sample ID: 480-206817-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	6.2		0.53	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.054	J	0.21	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.77		0.21	0.032	mg/Kg	1	☼	6010C	Total/NA
Chromium	1.6		0.53	0.21	mg/Kg	1	☼	6010C	Total/NA
Copper	1.4	J	5.3	1.1	mg/Kg	5	☼	6010C	Total/NA
Lead	5.7		1.1	0.25	mg/Kg	1	☼	6010C	Total/NA
Manganese	613	^2	0.21	0.034	mg/Kg	1	☼	6010C	Total/NA
Nickel	1.2	J	5.3	0.24	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.76	J	4.2	0.42	mg/Kg	1	☼	6010C	Total/NA
Zinc	73.1		2.1	0.68	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.011	J	0.020	0.0047	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH2 3-4FT — Lab Sample ID: 480-206817-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.6	J vs	5.3	1.0	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.72	J vs	5.3	0.34	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.41	J vs B	5.3	0.33	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.93	J vs	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.2	J vs	11	0.90	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Client Sample ID: BH1 3-6FT
Date Collected: 03/09/23 09:00
Date Received: 03/09/23 16:30

Lab Sample ID: 480-206817-1
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	61	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
2-Methylphenol	190	U	190	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
3-Methylphenol	360	U	360	29	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
4-Methylphenol	360	U	360	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Acenaphthene	190	U	190	28	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Acenaphthylene	190	U	190	24	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Anthracene	190	U	190	46	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[a]anthracene	190	U	190	19	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[a]pyrene	190	U	190	28	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[b]fluoranthene	190	U	190	30	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[g,h,i]perylene	190	U	190	20	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Benzo[k]fluoranthene	190	U	190	24	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Chrysene	190	U	190	42	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Dibenz(a,h)anthracene	190	U	190	33	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Dibenzofuran	190	U	190	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Fluoranthene	**31**	**J**	190	20	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Fluorene	190	U	190	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Hexachlorobenzene	190	U	190	25	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Indeno[1,2,3-cd]pyrene	190	U	190	23	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Naphthalene	190	U	190	24	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Pentachlorophenol	360	U	360	190	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Phenanthrene	190	U	190	28	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Phenol	190	U	190	29	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1
Pyrene	**26**	**J**	190	22	ug/Kg	☼	03/10/23 15:59	03/13/23 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*54 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
2-Fluorobiphenyl (Surr)	*89*		*60 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
2-Fluorophenol (Surr)	*83*		*52 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
Nitrobenzene-d5 (Surr)	*84*		*53 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
Phenol-d5 (Surr)	*89*		*54 - 120*	*03/10/23 15:59*	*03/13/23 14:39*	*1*
p-Terphenyl-d14 (Surr)	*89*		*79 - 130*	*03/10/23 15:59*	*03/13/23 14:39*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.8**	**J**	2.3	0.46	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Barium	**20.9**	**F1 F2**	0.58	0.13	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Beryllium	**0.48**		0.23	0.033	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Cadmium	**1.1**		0.23	0.035	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Chromium	**4.9**		0.58	0.23	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Copper	**8.9**	**F1**	5.8	1.2	mg/Kg	☼	03/13/23 13:11	03/15/23 12:43	5
Lead	**65.4**	**F1 F2**	1.2	0.28	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Manganese	**647**	**^2**	0.23	0.037	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Nickel	**3.6**	**J**	5.8	0.27	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Selenium	**1.2**	**J**	4.6	0.46	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Silver	0.70	U	0.70	0.23	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1
Zinc	**324**		2.3	0.74	mg/Kg	☼	03/13/23 13:11	03/14/23 14:41	1

Client Sample ID: BH1 3-6FT
Lab Sample ID: 480-206817-1
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 89.2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.43**		0.022	0.0050	mg/Kg	☼	03/14/23 10:52	03/14/23 14:33	1

Client Sample ID: BH1 7-8FT
Lab Sample ID: 480-206817-2
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.6	U vs	5.6	0.41	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,1-Dichloroethane	5.6	U vs	5.6	0.69	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,1-Dichloroethene	5.6	U vs	5.6	0.69	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,2,4-Trimethylbenzene	**2.0**	**J vs**	5.6	1.1	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,2-Dichlorobenzene	5.6	U vs	5.6	0.44	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,2-Dichloroethane	5.6	U vs	5.6	0.28	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,3,5-Trimethylbenzene	**0.65**	**J vs**	5.6	0.36	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,3-Dichlorobenzene	5.6	U vs	5.6	0.29	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,4-Dichlorobenzene	5.6	U vs	5.6	0.79	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
1,4-Dioxane	110	U vs	110	25	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
2-Butanone (MEK)	28	U vs	28	2.1	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Acetone	28	U vs	28	4.7	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Benzene	5.6	U vs	5.6	0.28	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Carbon tetrachloride	5.6	U vs	5.6	0.55	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Chlorobenzene	5.6	U vs	5.6	0.74	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Chloroform	**0.36**	**J vs B**	5.6	0.35	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
cis-1,2-Dichloroethene	5.6	U vs	5.6	0.72	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Ethylbenzene	**0.43**	**J vs**	5.6	0.39	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Methyl tert-butyl ether	5.6	U vs	5.6	0.55	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Methylene Chloride	5.6	U vs	5.6	2.6	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
n-Butylbenzene	5.6	U vs	5.6	0.49	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
N-Propylbenzene	5.6	U vs	5.6	0.45	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
sec-Butylbenzene	5.6	U vs	5.6	0.49	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
tert-Butylbenzene	5.6	U vs	5.6	0.59	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Tetrachloroethene	5.6	U vs	5.6	0.76	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Toluene	**1.6**	**J vs**	5.6	0.43	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
trans-1,2-Dichloroethene	5.6	U vs	5.6	0.58	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Trichloroethene	5.6	U vs	5.6	1.2	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Vinyl chloride	5.6	U vs	5.6	0.69	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1
Xylenes, Total	**3.2**	**J vs**	11	0.95	ug/Kg	☼	03/13/23 11:30	03/14/23 00:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*2.4*	*J*	*ug/Kg*	☼	*8.78*	*179601-23-1*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
o-Xylene	*0.81*	*J*	*ug/Kg*	☼	*9.21*	*95-47-6*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*03/13/23 11:30*	*03/14/23 00:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
Dibromofluoromethane (Surr)	*95*		*60 - 140*	*03/13/23 11:30*	*03/14/23 00:05*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*03/13/23 11:30*	*03/14/23 00:05*	*1*

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	56	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
2-Methylphenol	170	U	170	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
3-Methylphenol	340	U	340	26	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
4-Methylphenol	340	U	340	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Acenaphthene	170	U	170	25	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Acenaphthylene	170	U	170	22	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Anthracene	170	U	170	43	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[a]anthracene	170	U	170	17	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[a]pyrene	170	U	170	25	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Chrysene	170	U	170	39	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Dibenzofuran	170	U	170	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Fluoranthene	170	U	170	18	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Fluorene	170	U	170	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Hexachlorobenzene	170	U	170	23	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Naphthalene	170	U	170	22	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Pentachlorophenol	340	U	340	170	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Phenanthrene	170	U	170	25	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Phenol	170	U	170	26	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1
Pyrene	170	U	170	20	ug/Kg	☼	03/10/23 15:59	03/13/23 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*54 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
2-Fluorobiphenyl (Surr)	*87*		*60 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
2-Fluorophenol (Surr)	*82*		*52 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
Nitrobenzene-d5 (Surr)	*87*		*53 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
Phenol-d5 (Surr)	*89*		*54 - 120*	*03/10/23 15:59*	*03/13/23 15:03*	*1*
p-Terphenyl-d14 (Surr)	*87*		*79 - 130*	*03/10/23 15:59*	*03/13/23 15:03*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1	U	2.1	0.42	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Barium	**6.2**		0.53	0.12	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Beryllium	**0.054**	**J**	0.21	0.030	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Cadmium	**0.77**		0.21	0.032	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Chromium	**1.6**		0.53	0.21	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Copper	**1.4**	**J**	5.3	1.1	mg/Kg	☼	03/13/23 13:11	03/15/23 13:02	5
Lead	**5.7**		1.1	0.25	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Manganese	**613**	**^2**	0.21	0.034	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Nickel	**1.2**	**J**	5.3	0.24	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Selenium	**0.76**	**J**	4.2	0.42	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Silver	0.64	U	0.64	0.21	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1
Zinc	**73.1**		2.1	0.68	mg/Kg	☼	03/13/23 13:11	03/14/23 15:13	1

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 96.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.020	0.0047	mg/Kg	☼	03/14/23 10:52	03/14/23 14:35	1

Client Sample ID: BH2 3-4FT
Lab Sample ID: 480-206817-4
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U vs	5.3	0.39	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,1-Dichloroethane	5.3	U vs	5.3	0.65	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,1-Dichloroethene	5.3	U vs	5.3	0.65	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,2,4-Trimethylbenzene	**2.6**	**J vs**	5.3	1.0	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,2-Dichlorobenzene	5.3	U vs	5.3	0.42	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,2-Dichloroethane	5.3	U vs	5.3	0.27	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,3,5-Trimethylbenzene	**0.72**	**J vs**	5.3	0.34	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,4-Dichlorobenzene	5.3	U vs	5.3	0.75	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
1,4-Dioxane	110	U vs	110	23	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
2-Butanone (MEK)	27	U vs	27	2.0	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Acetone	27	U vs	27	4.5	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Benzene	5.3	U vs	5.3	0.26	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Carbon tetrachloride	5.3	U vs	5.3	0.52	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Chlorobenzene	5.3	U vs	5.3	0.71	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Chloroform	**0.41**	**J vs B**	5.3	0.33	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Ethylbenzene	5.3	U vs	5.3	0.37	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Methyl tert-butyl ether	5.3	U vs	5.3	0.53	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Methylene Chloride	5.3	U vs	5.3	2.5	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
n-Butylbenzene	5.3	U vs	5.3	0.47	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
N-Propylbenzene	5.3	U vs	5.3	0.43	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
sec-Butylbenzene	5.3	U vs	5.3	0.47	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
tert-Butylbenzene	5.3	U vs	5.3	0.56	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Tetrachloroethene	5.3	U vs	5.3	0.72	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Toluene	**0.93**	**J vs**	5.3	0.40	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Trichloroethene	5.3	U vs	5.3	1.2	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Vinyl chloride	5.3	U vs	5.3	0.65	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1
Xylenes, Total	**2.2**	**J vs**	11	0.90	ug/Kg	☼	03/13/23 11:30	03/14/23 00:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*2.2*	*J*	*ug/Kg*	☼	*8.78*	*179601-23-1*	*03/13/23 11:30*	*03/14/23 00:29*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*03/13/23 11:30*	*03/14/23 00:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*03/13/23 11:30*	*03/14/23 00:29*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*03/13/23 11:30*	*03/14/23 00:29*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*03/13/23 11:30*	*03/14/23 00:29*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*03/13/23 11:30*	*03/14/23 00:29*	*1*

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-206817-2	BH1 7-8FT	97	95	95	98
480-206817-4	BH2 3-4FT	100	96	99	99
LCS 480-661313/1-A	Lab Control Sample	96	97	102	100
LCSD 480-661313/2-A	Lab Control Sample Dup	98	98	103	100
MB 480-661313/3-A	Method Blank	95	102	101	98

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-206817-1	BH1 3-6FT	77	89	83	84	89	89
480-206817-3	BH2 3-6FT	72	87	82	87	89	87
LCS 480-661199/2-A	Lab Control Sample	75	73	68	71	73	77 S1-
MB 480-661199/1-A	Method Blank	59	75	70	72	76	82

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)

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

Lab Sample ID: MB 480-661313/3-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.96	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.32	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
1,4-Dioxane	100	U	100	22	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Acetone	25	U	25	4.2	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Benzene	5.0	U	5.0	0.25	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Chloroform	0.477	J	5.0	0.31	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
n-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
N-Propylbenzene	5.0	U	5.0	0.40	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
sec-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
tert-Butylbenzene	5.0	U	5.0	0.52	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Toluene	5.0	U	5.0	0.38	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		03/13/23 11:30	03/13/23 15:18	1
Xylenes, Total	10	U	10	0.84	ug/Kg		03/13/23 11:30	03/13/23 15:18	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*03/13/23 11:30*	*03/13/23 15:18*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 126*	*03/13/23 11:30*	*03/13/23 15:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/13/23 11:30*	*03/13/23 15:18*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*03/13/23 11:30*	*03/13/23 15:18*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*03/13/23 11:30*	*03/13/23 15:18*	*1*

Lab Sample ID: LCS 480-661313/1-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	77 - 121
1,1-Dichloroethane	50.0	51.7		ug/Kg		103	73 - 126
1,1-Dichloroethene	50.0	49.8		ug/Kg		100	59 - 125

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

Lab Sample ID: LCS 480-661313/1-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	50.0	51.2		ug/Kg		102	74 - 120
1,2-Dichlorobenzene	50.0	48.5		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	48.1		ug/Kg		96	77 - 122
1,3,5-Trimethylbenzene	50.0	53.3		ug/Kg		107	74 - 120
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	48.2		ug/Kg		96	73 - 120
1,4-Dioxane	1000	682		ug/Kg		68	64 - 124
2-Butanone (MEK)	250	204		ug/Kg		81	70 - 134
Acetone	250	157		ug/Kg		63	61 - 137
Benzene	50.0	50.0		ug/Kg		100	79 - 127
Carbon tetrachloride	50.0	50.5		ug/Kg		101	75 - 135
Chlorobenzene	50.0	48.6		ug/Kg		97	76 - 124
Chloroform	50.0	51.6		ug/Kg		103	80 - 120
cis-1,2-Dichloroethene	50.0	51.2		ug/Kg		102	81 - 120
Ethylbenzene	50.0	49.6		ug/Kg		99	80 - 120
Methyl tert-butyl ether	50.0	50.3		ug/Kg		101	63 - 125
Methylene Chloride	50.0	56.7		ug/Kg		113	61 - 127
n-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 120
N-Propylbenzene	50.0	52.4		ug/Kg		105	70 - 130
sec-Butylbenzene	50.0	51.8		ug/Kg		104	74 - 120
tert-Butylbenzene	50.0	52.7		ug/Kg		105	73 - 120
Tetrachloroethene	50.0	48.3		ug/Kg		97	74 - 122
Toluene	50.0	49.6		ug/Kg		99	74 - 128
trans-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	78 - 126
Trichloroethene	50.0	49.1		ug/Kg		98	77 - 129
Vinyl chloride	50.0	53.6		ug/Kg		107	61 - 133
Xylenes, Total	100	102		ug/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*100*		*71 - 125*

Lab Sample ID: LCSD 480-661313/2-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.2		ug/Kg		98	77 - 121	3	20
1,1-Dichloroethane	50.0	50.5		ug/Kg		101	73 - 126	2	20
1,1-Dichloroethene	50.0	50.3		ug/Kg		101	59 - 125	1	20
1,2,4-Trimethylbenzene	50.0	50.1		ug/Kg		100	74 - 120	2	20
1,2-Dichlorobenzene	50.0	48.1		ug/Kg		96	75 - 120	1	20
1,2-Dichloroethane	50.0	49.6		ug/Kg		99	77 - 122	3	20
1,3,5-Trimethylbenzene	50.0	51.7		ug/Kg		103	74 - 120	3	20
1,3-Dichlorobenzene	50.0	48.1		ug/Kg		96	74 - 120	2	20
1,4-Dichlorobenzene	50.0	47.4		ug/Kg		95	73 - 120	2	20

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

Lab Sample ID: LCSD 480-661313/2-A
Matrix: Solid
Analysis Batch: 661315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661313

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			1000	741		ug/Kg		74	64 - 124	8	20
2-Butanone (MEK)			250	218		ug/Kg		87	70 - 134	7	20
Acetone			250	171		ug/Kg		68	61 - 137	9	20
Benzene			50.0	49.4		ug/Kg		99	79 - 127	1	20
Carbon tetrachloride			50.0	48.7		ug/Kg		97	75 - 135	4	20
Chlorobenzene			50.0	47.9		ug/Kg		96	76 - 124	2	20
Chloroform			50.0	51.2		ug/Kg		102	80 - 120	1	20
cis-1,2-Dichloroethene			50.0	50.1		ug/Kg		100	81 - 120	2	20
Ethylbenzene			50.0	48.5		ug/Kg		97	80 - 120	2	20
Methyl tert-butyl ether			50.0	50.4		ug/Kg		101	63 - 125	0	20
Methylene Chloride			50.0	58.2		ug/Kg		116	61 - 127	3	20
n-Butylbenzene			50.0	47.4		ug/Kg		95	70 - 120	3	20
N-Propylbenzene			50.0	50.5		ug/Kg		101	70 - 130	4	20
sec-Butylbenzene			50.0	50.4		ug/Kg		101	74 - 120	3	20
tert-Butylbenzene			50.0	50.0		ug/Kg		100	73 - 120	5	20
Tetrachloroethene			50.0	46.3		ug/Kg		93	74 - 122	4	20
Toluene			50.0	47.9		ug/Kg		96	74 - 128	3	20
trans-1,2-Dichloroethene			50.0	51.3		ug/Kg		103	78 - 126	4	20
Trichloroethene			50.0	48.0		ug/Kg		96	77 - 129	2	20
Vinyl chloride			50.0	52.3		ug/Kg		105	61 - 133	2	20
Xylenes, Total			100	98.7		ug/Kg		99	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*100*		*71 - 125*

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

Lab Sample ID: MB 480-661199/1-A
Matrix: Solid
Analysis Batch: 661256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	99	U	99	55	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
2-Methylphenol	170	U	170	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
3-Methylphenol	330	U	330	26	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
4-Methylphenol	330	U	330	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Acenaphthene	170	U	170	25	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Acenaphthylene	170	U	170	22	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Anthracene	170	U	170	42	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Chrysene	170	U	170	38	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		03/10/23 15:59	03/13/23 11:23	1

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

Lab Sample ID: MB 480-661199/1-A
Matrix: Solid
Analysis Batch: 661256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	170	U	170	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Fluoranthene	170	U	170	18	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Fluorene	170	U	170	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Hexachlorobenzene	170	U	170	23	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Naphthalene	170	U	170	22	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Pentachlorophenol	330	U	330	170	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Phenanthrene	170	U	170	25	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Phenol	170	U	170	26	ug/Kg		03/10/23 15:59	03/13/23 11:23	1
Pyrene	170	U	170	20	ug/Kg		03/10/23 15:59	03/13/23 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*59*		*54 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
2-Fluorobiphenyl (Surr)	*75*		*60 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
2-Fluorophenol (Surr)	*70*		*52 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
Nitrobenzene-d5 (Surr)	*72*		*53 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
Phenol-d5 (Surr)	*76*		*54 - 120*	*03/10/23 15:59*	*03/13/23 11:23*	*1*
p-Terphenyl-d14 (Surr)	*82*		*79 - 130*	*03/10/23 15:59*	*03/13/23 11:23*	*1*

Lab Sample ID: LCS 480-661199/2-A
Matrix: Solid
Analysis Batch: 661256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1650	680		ug/Kg		41	23 - 120
2-Methylphenol	1650	1270		ug/Kg		77	54 - 120
3-Methylphenol	1650	1330		ug/Kg		80	55 - 120
4-Methylphenol	1650	1330		ug/Kg		80	55 - 120
Acenaphthene	1650	1300		ug/Kg		79	62 - 120
Acenaphthylene	1650	1290		ug/Kg		78	58 - 121
Anthracene	1650	1420		ug/Kg		86	62 - 120
Benzo[a]anthracene	1650	1300		ug/Kg		79	65 - 120
Benzo[a]pyrene	1650	1480		ug/Kg		89	64 - 120
Benzo[b]fluoranthene	1650	1510		ug/Kg		92	64 - 120
Benzo[g,h,i]perylene	1650	1580		ug/Kg		95	45 - 145
Benzo[k]fluoranthene	1650	1460		ug/Kg		88	65 - 120
Chrysene	1650	1300		ug/Kg		79	64 - 120
Dibenz(a,h)anthracene	1650	1510		ug/Kg		92	54 - 132
Dibenzofuran	1650	1310		ug/Kg		79	63 - 120
Fluoranthene	1650	1500		ug/Kg		91	62 - 120
Fluorene	1650	1340		ug/Kg		81	63 - 120
Hexachlorobenzene	1650	1370		ug/Kg		83	60 - 120
Indeno[1,2,3-cd]pyrene	1650	1610		ug/Kg		97	56 - 134
Naphthalene	1650	1200		ug/Kg		73	55 - 120
Pentachlorophenol	3310	1970		ug/Kg		59	51 - 120
Phenanthrene	1650	1460		ug/Kg		88	60 - 120
Phenol	1650	1290		ug/Kg		78	53 - 120
Pyrene	1650	1360		ug/Kg		82	61 - 133

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

Lab Sample ID: LCS 480-661199/2-A
Matrix: Solid
Analysis Batch: 661256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661199

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*54 - 120*
2-Fluorobiphenyl (Surr)	*73*		*60 - 120*
2-Fluorophenol (Surr)	*68*		*52 - 120*
Nitrobenzene-d5 (Surr)	*71*		*53 - 120*
Phenol-d5 (Surr)	*73*		*54 - 120*
p-Terphenyl-d14 (Surr)	*77*	*S1-*	*79 - 130*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-661318/1-A
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	U	1.9	0.39	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Barium	0.49	U	0.49	0.11	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Beryllium	0.19	U	0.19	0.027	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Cadmium	0.19	U	0.19	0.029	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Chromium	0.49	U	0.49	0.19	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Copper	0.97	U	0.97	0.20	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Lead	0.97	U	0.97	0.23	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Manganese	0.19	U	0.19	0.031	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Nickel	4.9	U	4.9	0.22	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Selenium	3.9	U	3.9	0.39	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Silver	0.58	U	0.58	0.19	mg/Kg		03/13/23 13:11	03/14/23 14:30	1
Zinc	1.9	U	1.9	0.62	mg/Kg		03/13/23 13:11	03/14/23 14:30	1

Lab Sample ID: LCDSRM 480-661318/3-A
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661318

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			129	103.7		mg/Kg		80.4	60.9 - 113.2	4	20
Barium			169	157.3		mg/Kg		93.1	68.6 - 114.2	3	20
Beryllium			137	107.7		mg/Kg		78.6	66.3 - 110.2	5	20
Cadmium			227	172.5		mg/Kg		76.0	64.8 - 110.1	4	20
Chromium			115	93.60		mg/Kg		81.4	62.4 - 115.7	5	20
Copper			76.0	63.27		mg/Kg		83.3	69.5 - 115.8	5	20
Lead			74.8	82.74		mg/Kg		110.6	67.0 - 128.9	2	20
Manganese			400	348.1		mg/Kg		87.0	70.5 - 115.8	4	20
Nickel			282	255.6		mg/Kg		90.6	62.1 - 114.9	4	20

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

Lab Sample ID: LCDSRM 480-661318/3-A
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	246	187.6		mg/Kg		76.2	60.2 - 114.6	5	20
Silver	87.5	72.22		mg/Kg		82.5	63.7 - 115.4	4	20
Zinc	401	311.4		mg/Kg		77.7	62.8 - 116.7	4	20

Lab Sample ID: LCSSRM 480-661318/2-A
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	108.0		mg/Kg		83.7	60.9 - 113.2
Barium	169	153.0		mg/Kg		90.5	68.6 - 114.2
Beryllium	137	113.4		mg/Kg		82.8	66.3 - 110.2
Cadmium	227	180.2		mg/Kg		79.4	64.8 - 110.1
Chromium	115	97.95		mg/Kg		85.2	62.4 - 115.7
Copper	76.0	66.44		mg/Kg		87.4	69.5 - 115.8
Lead	74.8	84.56		mg/Kg		113.1	67.0 - 128.9
Manganese	400	362.6		mg/Kg		90.7	70.5 - 115.8
Nickel	282	265.4		mg/Kg		94.1	62.1 - 114.9
Selenium	246	197.2		mg/Kg		80.2	60.2 - 114.6
Silver	87.5	75.36		mg/Kg		86.1	63.7 - 115.4
Zinc	401	324.1		mg/Kg		80.8	62.8 - 116.7

Lab Sample ID: 480-206817-1 MS
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: BH1 3-6FT
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.8	J	45.0	49.65		mg/Kg	☼	106	75 - 125
Barium	20.9	F1 F2	45.0	80.10	F1	mg/Kg	☼	132	75 - 125
Beryllium	0.48		45.0	42.59		mg/Kg	☼	94	75 - 125
Cadmium	1.1		45.0	47.77		mg/Kg	☼	104	75 - 125
Chromium	4.9		45.0	50.58		mg/Kg	☼	102	75 - 125
Lead	65.4	F1 F2	45.0	114.3		mg/Kg	☼	109	75 - 125
Manganese	647	^2	45.0	692.9	4	mg/Kg	☼	101	75 - 125
Nickel	3.6	J	45.0	51.86		mg/Kg	☼	107	75 - 125
Selenium	1.2	J	45.0	45.74		mg/Kg	☼	99	75 - 125
Silver	0.70	U	11.2	12.31		mg/Kg	☼	110	75 - 125
Zinc	324		45.0	537.1	4	mg/Kg	☼	474	75 - 125

Method: 6010C - Metals (ICP)

Lab Sample ID: 480-206817-1 MS
Matrix: Solid
Analysis Batch: 661726

Client Sample ID: BH1 3-6FT
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Copper	8.9	F1	45.0	58.93		mg/Kg	☼	111	75 - 125		

Lab Sample ID: 480-206817-1 MSD
Matrix: Solid
Analysis Batch: 661551

Client Sample ID: BH1 3-6FT
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.8	J	45.3	49.54		mg/Kg	☼	105	75 - 125	0	20
Barium	20.9	F1 F2	45.3	103.3	F1 F2	mg/Kg	☼	182	75 - 125	25	20
Beryllium	0.48		45.3	43.07		mg/Kg	☼	94	75 - 125	1	20
Cadmium	1.1		45.3	48.48		mg/Kg	☼	105	75 - 125	1	20
Chromium	4.9		45.3	50.96		mg/Kg	☼	102	75 - 125	1	20
Lead	65.4	F1 F2	45.3	575.0	F1 F2	mg/Kg	☼	1125	75 - 125	134	20
Manganese	647	^2	45.3	634.7	4	mg/Kg	☼	-28	75 - 125	9	20
Nickel	3.6	J	45.3	52.29		mg/Kg	☼	108	75 - 125	1	20
Selenium	1.2	J	45.3	45.85		mg/Kg	☼	99	75 - 125	0	20
Silver	0.70	U	11.3	12.30		mg/Kg	☼	109	75 - 125	0	20
Zinc	324		45.3	595.3	4	mg/Kg	☼	600	75 - 125	10	20

Lab Sample ID: 480-206817-1 MSD
Matrix: Solid
Analysis Batch: 661726

Client Sample ID: BH1 3-6FT
Prep Type: Total/NA
Prep Batch: 661318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	8.9	F1	45.3	65.82	F1	mg/Kg	☼	126	75 - 125	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-661341/1-A
Matrix: Solid
Analysis Batch: 661467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0045	mg/Kg		03/14/23 10:52	03/14/23 14:09	1

Lab Sample ID: LCSSRM 480-661341/2-A ^10
Matrix: Solid
Analysis Batch: 661467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661341

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			20.7	9.94		mg/Kg		48.0	38.3 - 110.1		

GC/MS VOA

Prep Batch: 661313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-2	BH1 7-8FT	Total/NA	Solid	5035A_L	
480-206817-4	BH2 3-4FT	Total/NA	Solid	5035A_L	
MB 480-661313/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-661313/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-661313/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 661315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-2	BH1 7-8FT	Total/NA	Solid	8260C	661313
480-206817-4	BH2 3-4FT	Total/NA	Solid	8260C	661313
MB 480-661313/3-A	Method Blank	Total/NA	Solid	8260C	661313
LCS 480-661313/1-A	Lab Control Sample	Total/NA	Solid	8260C	661313
LCSD 480-661313/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	661313

GC/MS Semi VOA

Prep Batch: 661199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	3550C	
480-206817-3	BH2 3-6FT	Total/NA	Solid	3550C	
MB 480-661199/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-661199/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 661256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	8270D	661199
480-206817-3	BH2 3-6FT	Total/NA	Solid	8270D	661199
MB 480-661199/1-A	Method Blank	Total/NA	Solid	8270D	661199
LCS 480-661199/2-A	Lab Control Sample	Total/NA	Solid	8270D	661199

Metals

Prep Batch: 661318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	3050B	
480-206817-3	BH2 3-6FT	Total/NA	Solid	3050B	
MB 480-661318/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-661318/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-661318/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-206817-1 MS	BH1 3-6FT	Total/NA	Solid	3050B	
480-206817-1 MSD	BH1 3-6FT	Total/NA	Solid	3050B	

Prep Batch: 661341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	7471B	
480-206817-3	BH2 3-6FT	Total/NA	Solid	7471B	
MB 480-661341/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-661341/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 661467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	7471B	661341

Metals (Continued)

Analysis Batch: 661467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-3	BH2 3-6FT	Total/NA	Solid	7471B	661341
MB 480-661341/1-A	Method Blank	Total/NA	Solid	7471B	661341
LCSSRM 480-661341/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	661341

Analysis Batch: 661551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	6010C	661318
480-206817-3	BH2 3-6FT	Total/NA	Solid	6010C	661318
MB 480-661318/1-A	Method Blank	Total/NA	Solid	6010C	661318
LCDSRM 480-661318/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	661318
LCSSRM 480-661318/2-A	Lab Control Sample	Total/NA	Solid	6010C	661318
480-206817-1 MS	BH1 3-6FT	Total/NA	Solid	6010C	661318
480-206817-1 MSD	BH1 3-6FT	Total/NA	Solid	6010C	661318

Analysis Batch: 661726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	6010C	661318
480-206817-3	BH2 3-6FT	Total/NA	Solid	6010C	661318
480-206817-1 MS	BH1 3-6FT	Total/NA	Solid	6010C	661318
480-206817-1 MSD	BH1 3-6FT	Total/NA	Solid	6010C	661318

General Chemistry

Analysis Batch: 661200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206817-1	BH1 3-6FT	Total/NA	Solid	Moisture	
480-206817-2	BH1 7-8FT	Total/NA	Solid	Moisture	
480-206817-3	BH2 3-6FT	Total/NA	Solid	Moisture	
480-206817-4	BH2 3-4FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Client Sample ID: BH1 3-6FT
Lab Sample ID: 480-206817-1
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	661200	KER	EET BUF	03/10/23 16:07

Client Sample ID: BH1 3-6FT
Lab Sample ID: 480-206817-1
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			661199	SJM	EET BUF	03/10/23 15:59
Total/NA	Analysis	8270D		1	661256	JMM	EET BUF	03/13/23 14:39
Total/NA	Prep	3050B			661318	NVK	EET BUF	03/13/23 13:11
Total/NA	Analysis	6010C		1	661551	LMH	EET BUF	03/14/23 14:41
Total/NA	Prep	3050B			661318	NVK	EET BUF	03/13/23 13:11
Total/NA	Analysis	6010C		5	661726	LMH	EET BUF	03/15/23 12:43
Total/NA	Prep	7471B			661341	NVK	EET BUF	03/14/23 10:52
Total/NA	Analysis	7471B		1	661467	NVK	EET BUF	03/14/23 14:33

Client Sample ID: BH1 7-8FT
Lab Sample ID: 480-206817-2
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	661200	KER	EET BUF	03/10/23 16:07

Client Sample ID: BH1 7-8FT
Lab Sample ID: 480-206817-2
Date Collected: 03/09/23 09:00
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			661313	LCH	EET BUF	03/13/23 11:30
Total/NA	Analysis	8260C		1	661315	CDC	EET BUF	03/14/23 00:05

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	661200	KER	EET BUF	03/10/23 16:07

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			661199	SJM	EET BUF	03/10/23 15:59
Total/NA	Analysis	8270D		1	661256	JMM	EET BUF	03/13/23 15:03

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Client Sample ID: BH2 3-6FT
Lab Sample ID: 480-206817-3
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			661318	NVK	EET BUF	03/13/23 13:11
Total/NA	Analysis	6010C		1	661551	LMH	EET BUF	03/14/23 15:13
Total/NA	Prep	3050B			661318	NVK	EET BUF	03/13/23 13:11
Total/NA	Analysis	6010C		5	661726	LMH	EET BUF	03/15/23 13:02
Total/NA	Prep	7471B			661341	NVK	EET BUF	03/14/23 10:52
Total/NA	Analysis	7471B		1	661467	NVK	EET BUF	03/14/23 14:35

Client Sample ID: BH2 3-4FT
Lab Sample ID: 480-206817-4
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	661200	KER	EET BUF	03/10/23 16:07

Client Sample ID: BH2 3-4FT
Lab Sample ID: 480-206817-4
Date Collected: 03/09/23 09:30
Matrix: Solid
Date Received: 03/09/23 16:30
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			661313	LCH	EET BUF	03/13/23 11:30
Total/NA	Analysis	8260C		1	661315	CDC	EET BUF	03/14/23 00:29

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
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

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	03-31-23

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
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-206817-1
Project/Site: BE3 Corp - Old Falls Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-206817-1	BH1 3-6FT	Solid	03/09/23 09:00	03/09/23 16:30
480-206817-2	BH1 7-8FT	Solid	03/09/23 09:00	03/09/23 16:30
480-206817-3	BH2 3-6FT	Solid	03/09/23 09:30	03/09/23 16:30
480-206817-4	BH2 3-4FT	Solid	03/09/23 09:30	03/09/23 16:30

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Cox	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-182773-38809.2
Client Contact: Jason Brydges	Phone: 716 418 0192	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Brydges Engineering in Environment & Energy DPC	PWSID:			Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			
City: Buffalo	TAT Requested (days): 10 day			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone: 716-362-6533(Tel)	PO #: Purchase Order not required			
Email: jbrydges@be3corp.com	WO #: AMD - Edgemere			
Project Name: AMD Edgemere Old Falls Street	Project #: 48024347			
Site: Old Falls Street	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, 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)

480-206817 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B	8270D - Part 375 SVOCs	8260C - Part 375 VOCs (LL BULK) + TICs	8260C - Part 375 VOCs	Tot	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
BH1 3-6 FT	3/9	9:00	G	Solid			X	X				
BH1 7-8 FT	3/9	9:00	G	Solid					X			
				Water								
BH2 3-6 FT	3/9	9:30	G	Solid			X	X				
BH2 ~~7-8 FT~~ 3-4 FT	3/9	9:30	G	Solid					X			

Possible 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: NONE

Empty Kit Relinquished by: Jacob Cox	Date:	Time:	Method of Shipment:		
Relinquished by: Jacob Cox	Date/Time: 3/9 4:30 pm	Company: BE3	Received by: [signature]	Date/Time: 3/9/23 1630	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-206817-1
SDG Number:

Login Number: 206817
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	BE3
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/14/2023 8:15:54 AM

JOB DESCRIPTION

Old Falls Street

JOB NUMBER

480-207459-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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
4/14/2023 8:15:54 AM

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

Table of Contents

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Qualifiers

GC/MS VOA

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.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.
¤	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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Job ID: 480-207459-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-207459-1

Comments
No additional comments.

Receipt
The samples were received on 4/3/2023 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 9.2º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-663911 recovered above the upper control limit for 1,1,1-Trichloroethane, 1,1-Dichloroethene, Carbon tetrachloride, trans-1,2-Dichloroethene and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH8 2-4 FT (480-207459-6) and BH9 2-4 FT (480-207459-7).

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

GC/MS Semi VOA
Method 8270D: 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: BH4 1-2 FT (480-207459-2), BH7 1-4 FT (480-207459-5), BH8 2-4 FT (480-207459-6), BH9 2-4 FT (480-207459-7) and BH10 2-4 FT (480-207459-8). These results have been reported and qualified.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH4 1-2 FT (480-207459-2), BH6 2-4 FT (480-207459-4), BH7 1-4 FT (480-207459-5), BH8 2-4 FT (480-207459-6), BH9 2-4 FT (480-207459-7) and BH10 2-4 FT (480-207459-8). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: BH6 2-4 FT (480-207459-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following sample was diluted due to color, appearance, and viscosity: BH5 3-6 FT (480-207459-3). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: BH5 3-6 FT (480-207459-3). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

Metals
Method 6010C: The following samples were diluted due to the presence of Total Calcium which interferes with Copper: BH5 3-6 FT (480-207459-3), BH10 2-4 FT (480-207459-8), (480-207459-B-8-B MS ^5), (480-207459-B-8-C MSD ^5), (480-207459-B-8-A PDS ^5) and (480-207459-B-8-A SD ^25). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	26	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	74	J	190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	81	J	190	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	110	J	190	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	93	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	62	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Chrysene	100	J	190	41	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	180	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	76	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	140	J	190	27	ug/Kg	1	☼	8270D	Total/NA
Pyrene	150	J	190	22	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.5		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	70.8		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.39		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.2		0.22	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.9		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Copper	40.0	F1	1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Lead	73.7		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Manganese	350	B	0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	10.0		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Zinc	279		2.2	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.019	J	0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	420	J	1800	230	ug/Kg	10	☼	8270D	Total/NA
Anthracene	1100	J	1800	450	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	3000		1800	180	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	2800		1800	270	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	2800		1800	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2000		1800	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	1700	J	1800	230	ug/Kg	10	☼	8270D	Total/NA
Chrysene	2600		1800	400	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	470	J	1800	320	ug/Kg	10	☼	8270D	Total/NA
Dibenzofuran	240	J	1800	210	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	7100		1800	190	ug/Kg	10	☼	8270D	Total/NA
Fluorene	300	J	1800	210	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1800		1800	220	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	4700		1800	270	ug/Kg	10	☼	8270D	Total/NA
Pyrene	4600		1800	210	ug/Kg	10	☼	8270D	Total/NA
Arsenic	5.1		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	885		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.40		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.66		0.22	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.7		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Copper	18.7		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	490		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Manganese	495	B	0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	10		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Zinc	394		2.2	0.72	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: BH4 1-2 FT (Continued)
Lab Sample ID: 480-207459-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.13		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		2.0	0.40	mg/Kg	1	☼	6010C	Total/NA
Barium	827		0.50	0.11	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.17	J	0.20	0.028	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.58		0.20	0.030	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.6		0.50	0.20	mg/Kg	1	☼	6010C	Total/NA
Copper	16.1		5.0	1.1	mg/Kg	5	☼	6010C	Total/NA
Lead	100		1.0	0.24	mg/Kg	1	☼	6010C	Total/NA
Manganese	464	B	0.20	0.032	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.7		5.0	0.23	mg/Kg	1	☼	6010C	Total/NA
Silver	0.28	J	0.61	0.20	mg/Kg	1	☼	6010C	Total/NA
Zinc	476		2.0	0.65	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.33		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	2700	J	3900	500	ug/Kg	20	☼	8270D	Total/NA
Anthracene	2800	J	3900	960	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	9800		3900	390	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	8200		3900	570	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	11000		3900	620	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5400		3900	410	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	4700		3900	500	ug/Kg	20	☼	8270D	Total/NA
Chrysene	10000		3900	870	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2100	J	3900	690	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	480	J	3900	460	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	22000		3900	410	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	5300		3900	480	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	13000		3900	570	ug/Kg	20	☼	8270D	Total/NA
Pyrene	14000		3900	460	ug/Kg	20	☼	8270D	Total/NA
Arsenic	4.9		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	4950		3.0	0.66	mg/Kg	5	☼	6010C	Total/NA
Beryllium	0.43		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.98		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	18.4		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Copper	25.6		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	904		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Manganese	583	B	0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.5		6.0	0.28	mg/Kg	1	☼	6010C	Total/NA
Silver	0.34	J	0.72	0.24	mg/Kg	1	☼	6010C	Total/NA
Zinc	638		2.4	0.77	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.58		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	270	J	1800	230	ug/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH7 1-4 FT (Continued)
Lab Sample ID: 480-207459-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	570	J	1800	450	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	1900		1800	180	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	2000		1800	270	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	2300		1800	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1300	J	1800	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	880	J	1800	230	ug/Kg	10	☼	8270D	Total/NA
Chrysene	1800		1800	410	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	380	J	1800	320	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	4000		1800	190	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1100	J	1800	220	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	1900		1800	270	ug/Kg	10	☼	8270D	Total/NA
Pyrene	2700		1800	210	ug/Kg	10	☼	8270D	Total/NA
Arsenic	4.0		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	62.6		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.31		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.56		0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.8		0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Copper	16.8		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Lead	115		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Manganese	425	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.7		5.5	0.25	mg/Kg	1	☼	6010C	Total/NA
Zinc	241		2.2	0.70	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.24		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.0	J vs	28	4.8	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.51	J vs B	5.7	0.35	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	890	J	1900	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	790	J	1900	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	900	J	1900	310	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	530	J	1900	210	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	500	J	1900	250	ug/Kg	10	☼	8270D	Total/NA
Chrysene	810	J	1900	440	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	1800	J	1900	210	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	450	J	1900	240	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	770	J	1900	290	ug/Kg	10	☼	8270D	Total/NA
Pyrene	1300	J	1900	230	ug/Kg	10	☼	8270D	Total/NA
Arsenic	4.7		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	87.7		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.45		0.24	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.87		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.0		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Copper	22.8		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	154		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Manganese	556	B	0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.8		6.0	0.27	mg/Kg	1	☼	6010C	Total/NA
Silver	0.35	J	0.71	0.24	mg/Kg	1	☼	6010C	Total/NA
Zinc	331		2.4	0.76	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.46		0.021	0.0048	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	5.9	J vs F1	28	2.0	ug/Kg	1	☼	8260C	Total/NA
Acetone	52	vs F1	28	4.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.27	J vs	5.6	0.27	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.49	J vs B	5.6	0.35	ug/Kg	1	☼	8260C	Total/NA
Anthracene	930	J	1900	470	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	1800	J	1900	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	1700	J	1900	280	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	1700	J	1900	300	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	820	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	1000	J	1900	250	ug/Kg	10	☼	8270D	Total/NA
Chrysene	1600	J	1900	430	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	4100		1900	200	ug/Kg	10	☼	8270D	Total/NA
Fluorene	290	J	1900	230	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	760	J	1900	240	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	3000		1900	280	ug/Kg	10	☼	8270D	Total/NA
Pyrene	2900		1900	230	ug/Kg	10	☼	8270D	Total/NA
Arsenic	6.0		2.1	0.42	mg/Kg	1	☼	6010C	Total/NA
Barium	73.3		0.52	0.11	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.45		0.21	0.029	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.4		0.21	0.031	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.2		0.52	0.21	mg/Kg	1	☼	6010C	Total/NA
Copper	19.0		1.0	0.22	mg/Kg	1	☼	6010C	Total/NA
Lead	134		1.0	0.25	mg/Kg	1	☼	6010C	Total/NA
Manganese	589	B	0.21	0.033	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.5		5.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.61	J	4.2	0.42	mg/Kg	1	☼	6010C	Total/NA
Silver	0.42	J	0.62	0.21	mg/Kg	1	☼	6010C	Total/NA
Zinc	441		2.1	0.66	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.53		0.020	0.0047	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	410	J	1900	280	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	460	J	1900	300	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	230	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	280	J	1900	240	ug/Kg	10	☼	8270D	Total/NA
Chrysene	440	J	1900	420	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	1100	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	560	J	1900	280	ug/Kg	10	☼	8270D	Total/NA
Pyrene	700	J	1900	220	ug/Kg	10	☼	8270D	Total/NA
Arsenic	3.6		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	128	F1	0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.24		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.67		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	15.8		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Copper	17.7		5.7	1.2	mg/Kg	5	☼	6010C	Total/NA
Lead	185	F1	1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Manganese	505	B F2	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.3		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Zinc	241	F2	2.3	0.73	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH10 2-4 FT (Continued)
Lab Sample ID: 480-207459-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.76		0.022	0.0050	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1

Date Collected: 04/03/23 08:30
Matrix: Solid

Date Received: 04/03/23 15:17
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	60	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
2-Methylphenol	190	U	190	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
3-Methylphenol	360	U	360	28	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
4-Methylphenol	360	U	360	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Acenaphthene	190	U	190	27	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Acenaphthylene	**26**	**J**	190	24	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Anthracene	190	U	190	46	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[a]anthracene	**74**	**J**	190	19	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[a]pyrene	**81**	**J**	190	27	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[b]fluoranthene	**110**	**J**	190	29	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[g,h,i]perylene	**93**	**J**	190	20	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Benzo[k]fluoranthene	**62**	**J**	190	24	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Chrysene	**100**	**J**	190	41	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Dibenz(a,h)anthracene	190	U	190	33	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Dibenzofuran	190	U	190	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Fluoranthene	**180**	**J**	190	20	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Fluorene	190	U	190	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Hexachlorobenzene	190	U	190	25	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Indeno[1,2,3-cd]pyrene	**76**	**J**	190	23	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Naphthalene	190	U	190	24	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Pentachlorophenol	360	U	360	190	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Phenanthrene	**140**	**J**	190	27	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Phenol	190	U	190	28	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1
Pyrene	**150**	**J**	190	22	ug/Kg	☼	04/05/23 15:45	04/06/23 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*54 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
2-Fluorobiphenyl (Surr)	*88*		*60 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
2-Fluorophenol (Surr)	*68*		*52 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
Nitrobenzene-d5 (Surr)	*72*		*53 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
Phenol-d5 (Surr)	*71*		*54 - 120*	*04/05/23 15:45*	*04/06/23 16:38*	*1*
p-Terphenyl-d14 (Surr)	*86*		*79 - 130*	*04/05/23 15:45*	*04/06/23 16:38*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.5**		2.2	0.45	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Barium	**70.8**		0.56	0.12	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Beryllium	**0.39**		0.22	0.031	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Cadmium	**1.2**		0.22	0.034	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Chromium	**8.9**		0.56	0.22	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Copper	**40.0**	**F1**	1.1	0.23	mg/Kg	☼	04/10/23 14:43	04/11/23 15:35	1
Lead	**73.7**		1.1	0.27	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Manganese	**350**	**B**	0.22	0.036	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Nickel	**10.0**		5.6	0.26	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Selenium	4.5	U	4.5	0.45	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1
Silver	0.65	U	0.65	0.22	mg/Kg	☼	04/10/23 14:43	04/11/23 15:35	1
Zinc	**279**		2.2	0.72	mg/Kg	☼	04/06/23 14:44	04/07/23 20:54	1

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1
Date Collected: 04/03/23 08:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**	**J**	0.022	0.0051	mg/Kg	☼	04/13/23 10:54	04/13/23 13:07	1

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2
Date Collected: 04/03/23 09:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 93.4

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	580	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
2-Methylphenol	1800	U	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
3-Methylphenol	3500	U	3500	280	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
4-Methylphenol	3500	U	3500	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Acenaphthene	1800	U	1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Acenaphthylene	**420**	**J**	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Anthracene	**1100**	**J**	1800	450	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[a]anthracene	**3000**		1800	180	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[a]pyrene	**2800**		1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[b]fluoranthene	**2800**		1800	290	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[g,h,i]perylene	**2000**		1800	190	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Benzo[k]fluoranthene	**1700**	**J**	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Chrysene	**2600**		1800	400	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Dibenz(a,h)anthracene	**470**	**J**	1800	320	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Dibenzofuran	**240**	**J**	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Fluoranthene	**7100**		1800	190	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Fluorene	**300**	**J**	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Hexachlorobenzene	1800	U	1800	240	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Indeno[1,2,3-cd]pyrene	**1800**		1800	220	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Naphthalene	1800	U	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Pentachlorophenol	3500	U	3500	1800	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Phenanthrene	**4700**		1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Phenol	1800	U	1800	280	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10
Pyrene	**4600**		1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 17:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*54 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
2-Fluorobiphenyl (Surr)	*76*		*60 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
2-Fluorophenol (Surr)	*66*		*52 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
Nitrobenzene-d5 (Surr)	*71*		*53 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
Phenol-d5 (Surr)	*63*		*54 - 120*	*04/05/23 15:45*	*04/06/23 17:03*	*10*
p-Terphenyl-d14 (Surr)	*78*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 17:03*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.1**		2.2	0.45	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Barium	**885**		0.56	0.12	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Beryllium	**0.40**		0.22	0.031	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Cadmium	**0.66**		0.22	0.034	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Chromium	**13.7**		0.56	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Copper	**18.7**		1.1	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Lead	**490**		1.1	0.27	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2
Date Collected: 04/03/23 09:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**495**	**B**	0.22	0.036	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Nickel	**10**		5.6	0.26	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Selenium	4.5	U	4.5	0.45	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Silver	0.67	U	0.67	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1
Zinc	**394**		2.2	0.72	mg/Kg	☼	04/07/23 14:36	04/10/23 14:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.022	0.0051	mg/Kg	☼	04/13/23 10:54	04/13/23 13:08	1

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3
Date Collected: 04/03/23 09:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.1

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	☼	04/05/23 15:45	04/07/23 11:53	20
2-Methylphenol	3700	U	3700	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
3-Methylphenol	7200	U	7200	570	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
4-Methylphenol	7200	U	7200	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Acenaphthene	3700	U	3700	550	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Acenaphthylene	3700	U	3700	480	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Anthracene	3700	U	3700	920	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[a]anthracene	3700	U	3700	370	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[a]pyrene	3700	U	3700	550	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[b]fluoranthene	3700	U	3700	590	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[g,h,i]perylene	3700	U	3700	390	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Benzo[k]fluoranthene	3700	U	3700	480	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Chrysene	3700	U	3700	830	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Dibenz(a,h)anthracene	3700	U	3700	650	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Dibenzofuran	3700	U	3700	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Fluoranthene	3700	U	3700	390	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Fluorene	3700	U	3700	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Hexachlorobenzene	3700	U	3700	500	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Indeno[1,2,3-cd]pyrene	3700	U	3700	460	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Naphthalene	3700	U	3700	480	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Pentachlorophenol	7200	U	7200	3700	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Phenanthrene	3700	U	3700	550	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Phenol	3700	U	3700	570	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20
Pyrene	3700	U	3700	440	ug/Kg	☼	04/05/23 15:45	04/07/23 11:53	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
2-Fluorobiphenyl (Surr)	*63*		*60 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
2-Fluorophenol (Surr)	*64*		*52 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
Nitrobenzene-d5 (Surr)	*63*		*53 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
Phenol-d5 (Surr)	*45*	*S1-*	*54 - 120*	*04/05/23 15:45*	*04/07/23 11:53*	*20*
p-Terphenyl-d14 (Surr)	*67*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/07/23 11:53*	*20*

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3

Date Collected: 04/03/23 09:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.5**		2.0	0.40	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Barium	**827**		0.50	0.11	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Beryllium	**0.17**	**J**	0.20	0.028	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Cadmium	**0.58**		0.20	0.030	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Chromium	**14.6**		0.50	0.20	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Copper	**16.1**		5.0	1.1	mg/Kg	☼	04/07/23 14:36	04/11/23 13:08	5
Lead	**100**		1.0	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Manganese	**464**	**B**	0.20	0.032	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Nickel	**7.7**		5.0	0.23	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Selenium	4.0	U	4.0	0.40	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Silver	**0.28**	**J**	0.61	0.20	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1
Zinc	**476**		2.0	0.65	mg/Kg	☼	04/07/23 14:36	04/10/23 14:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.023	0.0053	mg/Kg	☼	04/13/23 10:54	04/13/23 13:09	1

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4

Date Collected: 04/03/23 10:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2300	U	2300	1300	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
2-Methylphenol	3900	U	3900	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
3-Methylphenol	7600	U	7600	600	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
4-Methylphenol	7600	U	7600	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Acenaphthene	3900	U	3900	570	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Acenaphthylene	**2700**	**J**	3900	500	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Anthracene	**2800**	**J**	3900	960	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[a]anthracene	**9800**		3900	390	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[a]pyrene	**8200**		3900	570	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[b]fluoranthene	**11000**		3900	620	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[g,h,i]perylene	**5400**		3900	410	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Benzo[k]fluoranthene	**4700**		3900	500	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Chrysene	**10000**		3900	870	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Dibenz(a,h)anthracene	**2100**	**J**	3900	690	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Dibenzofuran	**480**	**J**	3900	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Fluoranthene	**22000**		3900	410	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Fluorene	3900	U	3900	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Hexachlorobenzene	3900	U	3900	530	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Indeno[1,2,3-cd]pyrene	**5300**		3900	480	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Naphthalene	3900	U	3900	500	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Pentachlorophenol	7600	U	7600	3900	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Phenanthrene	**13000**		3900	570	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Phenol	3900	U	3900	600	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20
Pyrene	**14000**		3900	460	ug/Kg	☼	04/05/23 15:45	04/06/23 17:54	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*54 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4

Date Collected: 04/03/23 10:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 86.2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*60 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*
2-Fluorophenol (Surr)	*65*		*52 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*
Nitrobenzene-d5 (Surr)	*70*		*53 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*
Phenol-d5 (Surr)	*46*	*S1-*	*54 - 120*	*04/05/23 15:45*	*04/06/23 17:54*	*20*
p-Terphenyl-d14 (Surr)	*67*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 17:54*	*20*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.9**		2.4	0.48	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Barium	**4950**		3.0	0.66	mg/Kg	☼	04/07/23 14:36	04/11/23 13:12	5
Beryllium	**0.43**		0.24	0.034	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Cadmium	**0.98**		0.24	0.036	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Chromium	**18.4**		0.60	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Copper	**25.6**		1.2	0.25	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Lead	**904**		1.2	0.29	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Manganese	**583**	**B**	0.24	0.038	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Nickel	**9.5**		6.0	0.28	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Selenium	4.8	U	4.8	0.48	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Silver	**0.34**	**J**	0.72	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1
Zinc	**638**		2.4	0.77	mg/Kg	☼	04/07/23 14:36	04/10/23 14:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.58**		0.022	0.0050	mg/Kg	☼	04/13/23 10:54	04/13/23 13:10	1

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5

Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 91.4

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	☼	04/05/23 15:45	04/06/23 18:19	10
2-Methylphenol	1800	U	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
3-Methylphenol	3500	U	3500	280	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
4-Methylphenol	3500	U	3500	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Acenaphthene	1800	U	1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Acenaphthylene	**270**	**J**	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Anthracene	**570**	**J**	1800	450	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[a]anthracene	**1900**		1800	180	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[a]pyrene	**2000**		1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[b]fluoranthene	**2300**		1800	290	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[g,h,i]perylene	**1300**	**J**	1800	190	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Benzo[k]fluoranthene	**880**	**J**	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Chrysene	**1800**		1800	410	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Dibenz(a,h)anthracene	**380**	**J**	1800	320	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Dibenzofuran	1800	U	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Fluoranthene	**4000**		1800	190	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Fluorene	1800	U	1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Hexachlorobenzene	1800	U	1800	250	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Indeno[1,2,3-cd]pyrene	**1100**	**J**	1800	220	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5
Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1800	U	1800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Pentachlorophenol	3500	U	3500	1800	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Phenanthrene	**1900**		1800	270	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Phenol	1800	U	1800	280	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10
Pyrene	**2700**		1800	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*54 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
2-Fluorobiphenyl (Surr)	*75*		*60 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
2-Fluorophenol (Surr)	*71*		*52 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
Nitrobenzene-d5 (Surr)	*72*		*53 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
Phenol-d5 (Surr)	*64*		*54 - 120*	*04/05/23 15:45*	*04/06/23 18:19*	*10*
p-Terphenyl-d14 (Surr)	*62*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 18:19*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**		2.2	0.44	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Barium	**62.6**		0.55	0.12	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Beryllium	**0.31**		0.22	0.031	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Cadmium	**0.56**		0.22	0.033	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Chromium	**9.8**		0.55	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Copper	**16.8**		1.1	0.23	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Lead	**115**		1.1	0.26	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Manganese	**425**	**B**	0.22	0.035	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Nickel	**8.7**		5.5	0.25	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Selenium	4.4	U	4.4	0.44	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Silver	0.66	U	0.66	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1
Zinc	**241**		2.2	0.70	mg/Kg	☼	04/07/23 14:36	04/10/23 15:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**		0.022	0.0051	mg/Kg	☼	04/13/23 10:54	04/13/23 13:12	1

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6
Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.7	U vs	5.7	0.41	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,1-Dichloroethane	5.7	U vs	5.7	0.69	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,1-Dichloroethene	5.7	U vs	5.7	0.69	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,2,4-Trimethylbenzene	5.7	U vs	5.7	1.1	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,2-Dichlorobenzene	5.7	U vs	5.7	0.44	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,2-Dichloroethane	5.7	U vs	5.7	0.28	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,3,5-Trimethylbenzene	5.7	U vs	5.7	0.37	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,3-Dichlorobenzene	5.7	U vs	5.7	0.29	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,4-Dichlorobenzene	5.7	U vs	5.7	0.79	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
1,4-Dioxane	110	U vs	110	25	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
2-Butanone (MEK)	28	U vs	28	2.1	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Acetone	**9.0**	**J vs**	28	4.8	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6
Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.7	U vs	5.7	0.28	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Carbon tetrachloride	5.7	U vs	5.7	0.55	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Chlorobenzene	5.7	U vs	5.7	0.75	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Chloroform	**0.51**	**J vs B**	5.7	0.35	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
cis-1,2-Dichloroethene	5.7	U vs	5.7	0.73	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Ethylbenzene	5.7	U vs	5.7	0.39	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Methyl tert-butyl ether	5.7	U vs	5.7	0.56	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Methylene Chloride	5.7	U vs	5.7	2.6	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
n-Butylbenzene	5.7	U vs	5.7	0.49	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
N-Propylbenzene	5.7	U vs	5.7	0.45	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
sec-Butylbenzene	5.7	U vs	5.7	0.49	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
tert-Butylbenzene	5.7	U vs	5.7	0.59	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Tetrachloroethene	5.7	U vs	5.7	0.76	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Toluene	5.7	U vs	5.7	0.43	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
trans-1,2-Dichloroethene	5.7	U vs	5.7	0.59	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Trichloroethene	5.7	U vs	5.7	1.2	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Vinyl chloride	5.7	U vs	5.7	0.69	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1
Xylenes, Total	11	U vs	11	0.95	ug/Kg	☼	04/04/23 17:33	04/04/23 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*04/04/23 17:33*	*04/04/23 23:16*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*	*04/04/23 17:33*	*04/04/23 23:16*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*04/04/23 17:33*	*04/04/23 23:16*	*1*
Toluene-d8 (Surr)	*92*		*71 - 125*	*04/04/23 17:33*	*04/04/23 23:16*	*1*

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	☼	04/05/23 15:45	04/06/23 18:45	10
2-Methylphenol	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
3-Methylphenol	3800	U	3800	300	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
4-Methylphenol	3800	U	3800	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Acenaphthene	1900	U	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Acenaphthylene	1900	U	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Anthracene	1900	U	1900	480	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[a]anthracene	**890**	**J**	1900	190	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[a]pyrene	**790**	**J**	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[b]fluoranthene	**900**	**J**	1900	310	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[g,h,i]perylene	**530**	**J**	1900	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Benzo[k]fluoranthene	**500**	**J**	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Chrysene	**810**	**J**	1900	440	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Dibenz(a,h)anthracene	1900	U	1900	340	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Dibenzofuran	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Fluoranthene	**1800**	**J**	1900	210	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Fluorene	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Indeno[1,2,3-cd]pyrene	**450**	**J**	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Naphthalene	1900	U	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Pentachlorophenol	3800	U	3800	1900	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Phenanthrene	**770**	**J**	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10
Phenol	1900	U	1900	300	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6

Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**1300**	**J**	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 18:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*54 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
2-Fluorobiphenyl (Surr)	*65*		*60 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
2-Fluorophenol (Surr)	*64*		*52 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
Nitrobenzene-d5 (Surr)	*59*		*53 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
Phenol-d5 (Surr)	*61*		*54 - 120*	*04/05/23 15:45*	*04/06/23 18:45*	*10*
p-Terphenyl-d14 (Surr)	*67*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 18:45*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**		2.4	0.48	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Barium	**87.7**		0.60	0.13	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Beryllium	**0.45**		0.24	0.033	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Cadmium	**0.87**		0.24	0.036	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Chromium	**16.0**		0.60	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Copper	**22.8**		1.2	0.25	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Lead	**154**		1.2	0.29	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Manganese	**556**	**B**	0.24	0.038	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Nickel	**12.8**		6.0	0.27	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Selenium	4.8	U	4.8	0.48	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Silver	**0.35**	**J**	0.71	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1
Zinc	**331**		2.4	0.76	mg/Kg	☼	04/07/23 14:36	04/10/23 15:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.46**		0.021	0.0048	mg/Kg	☼	04/13/23 10:54	04/13/23 13:13	1

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7

Date Collected: 04/03/23 11:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.6	U vs	5.6	0.41	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,1-Dichloroethane	5.6	U vs	5.6	0.68	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,1-Dichloroethene	5.6	U vs	5.6	0.69	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,2,4-Trimethylbenzene	5.6	U vs F1	5.6	1.1	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,2-Dichlorobenzene	5.6	U vs F1	5.6	0.44	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,2-Dichloroethane	5.6	U vs	5.6	0.28	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,3,5-Trimethylbenzene	5.6	U vs F1	5.6	0.36	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,3-Dichlorobenzene	5.6	U vs F1	5.6	0.29	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,4-Dichlorobenzene	5.6	U vs F1	5.6	0.78	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
1,4-Dioxane	110	U vs F1	110	24	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
2-Butanone (MEK)	**5.9**	**J vs F1**	28	2.0	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Acetone	**52**	**vs F1**	28	4.7	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Benzene	**0.27**	**J vs**	5.6	0.27	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Carbon tetrachloride	5.6	U vs	5.6	0.54	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Chlorobenzene	5.6	U vs F1	5.6	0.74	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Chloroform	**0.49**	**J vs B**	5.6	0.35	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7
Date Collected: 04/03/23 11:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	5.6	U vs	5.6	0.72	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Ethylbenzene	5.6	U vs F1	5.6	0.39	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Methyl tert-butyl ether	5.6	U vs	5.6	0.55	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Methylene Chloride	5.6	U vs	5.6	2.6	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
n-Butylbenzene	5.6	U vs F1	5.6	0.49	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
N-Propylbenzene	5.6	U vs F1	5.6	0.45	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
sec-Butylbenzene	5.6	U vs F1	5.6	0.49	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
tert-Butylbenzene	5.6	U vs F1	5.6	0.58	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Tetrachloroethene	5.6	U vs F1	5.6	0.75	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Toluene	5.6	U vs F1	5.6	0.42	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
trans-1,2-Dichloroethene	5.6	U vs F1	5.6	0.58	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Trichloroethene	5.6	U vs F1	5.6	1.2	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Vinyl chloride	5.6	U vs	5.6	0.68	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1
Xylenes, Total	11	U vs F1	11	0.94	ug/Kg	☼	04/04/23 17:33	04/04/23 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*	*04/04/23 17:33*	*04/04/23 23:40*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*	*04/04/23 17:33*	*04/04/23 23:40*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*04/04/23 17:33*	*04/04/23 23:40*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*04/04/23 17:33*	*04/04/23 23:40*	*1*

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	620	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
2-Methylphenol	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
3-Methylphenol	3700	U	3700	290	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
4-Methylphenol	3700	U	3700	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Acenaphthene	1900	U	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Acenaphthylene	1900	U	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Anthracene	**930**	**J**	1900	470	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[a]anthracene	**1800**	**J**	1900	190	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[a]pyrene	**1700**	**J**	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[b]fluoranthene	**1700**	**J**	1900	300	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[g,h,i]perylene	**820**	**J**	1900	200	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Benzo[k]fluoranthene	**1000**	**J**	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Chrysene	**1600**	**J**	1900	430	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Dibenz(a,h)anthracene	1900	U	1900	340	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Dibenzofuran	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Fluoranthene	**4100**		1900	200	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Fluorene	**290**	**J**	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Indeno[1,2,3-cd]pyrene	**760**	**J**	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Naphthalene	1900	U	1900	250	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Pentachlorophenol	3700	U	3700	1900	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Phenanthrene	**3000**		1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Phenol	1900	U	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10
Pyrene	**2900**		1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*	*S1-*	*54 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7

Date Collected: 04/03/23 11:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 87.2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*60 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*
2-Fluorophenol (Surr)	*61*		*52 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*
Nitrobenzene-d5 (Surr)	*65*		*53 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*
Phenol-d5 (Surr)	*59*		*54 - 120*	*04/05/23 15:45*	*04/06/23 19:10*	*10*
p-Terphenyl-d14 (Surr)	*63*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 19:10*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.0**		2.1	0.42	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Barium	**73.3**		0.52	0.11	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Beryllium	**0.45**		0.21	0.029	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Cadmium	**1.4**		0.21	0.031	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Chromium	**13.2**		0.52	0.21	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Copper	**19.0**		1.0	0.22	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Lead	**134**		1.0	0.25	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Manganese	**589**	**B**	0.21	0.033	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Nickel	**13.5**		5.2	0.24	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Selenium	**0.61**	**J**	4.2	0.42	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Silver	**0.42**	**J**	0.62	0.21	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1
Zinc	**441**		2.1	0.66	mg/Kg	☼	04/07/23 14:36	04/10/23 15:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.53**		0.020	0.0047	mg/Kg	☼	04/13/23 10:54	04/13/23 13:14	1

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8

Date Collected: 04/03/23 12:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 88.3

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	610	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
2-Methylphenol	1900	U	1900	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
3-Methylphenol	3700	U	3700	290	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
4-Methylphenol	3700	U	3700	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Acenaphthene	1900	U	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Acenaphthylene	1900	U	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Anthracene	1900	U	1900	470	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[a]anthracene	1900	U	1900	190	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[a]pyrene	**410**	**J**	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[b]fluoranthene	**460**	**J**	1900	300	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[g,h,i]perylene	**230**	**J**	1900	200	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Benzo[k]fluoranthene	**280**	**J**	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Chrysene	**440**	**J**	1900	420	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Dibenz(a,h)anthracene	1900	U	1900	330	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Dibenzofuran	1900	U	1900	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Fluoranthene	**1100**	**J**	1900	200	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Fluorene	1900	U	1900	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Indeno[1,2,3-cd]pyrene	1900	U	1900	230	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8

Date Collected: 04/03/23 12:00
Matrix: Solid

Date Received: 04/03/23 15:17
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1900	U	1900	240	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Pentachlorophenol	3700	U	3700	1900	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Phenanthrene	**560**	**J**	1900	280	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Phenol	1900	U	1900	290	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10
Pyrene	**700**	**J**	1900	220	ug/Kg	☼	04/05/23 15:45	04/06/23 19:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*54 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
2-Fluorobiphenyl (Surr)	*65*		*60 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
2-Fluorophenol (Surr)	*66*		*52 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
Nitrobenzene-d5 (Surr)	*63*		*53 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
Phenol-d5 (Surr)	*54*		*54 - 120*	*04/05/23 15:45*	*04/06/23 19:35*	*10*
p-Terphenyl-d14 (Surr)	*61*	*S1-*	*79 - 130*	*04/05/23 15:45*	*04/06/23 19:35*	*10*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.6**		2.3	0.46	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Barium	**128**	**F1**	0.57	0.13	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Beryllium	**0.24**		0.23	0.032	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Cadmium	**0.67**		0.23	0.034	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Chromium	**15.8**		0.57	0.23	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Copper	**17.7**		5.7	1.2	mg/Kg	☼	04/07/23 14:36	04/11/23 12:33	5
Lead	**185**	**F1**	1.1	0.27	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Manganese	**505**	**B F2**	0.23	0.037	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Nickel	**7.3**		5.7	0.26	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Selenium	4.6	U	4.6	0.46	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Silver	0.69	U	0.69	0.23	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1
Zinc	**241**	**F2**	2.3	0.73	mg/Kg	☼	04/07/23 14:36	04/10/23 16:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.76**		0.022	0.0050	mg/Kg	☼	04/13/23 10:54	04/13/23 13:16	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-207459-6	BH8 2-4 FT	101	106	106	92
480-207459-7	BH9 2-4 FT	98	106	106	93
480-207459-7 MS	BH9 2-4 FT	86	104	103	95
480-207459-7 MSD	BH9 2-4 FT	86	106	103	95
LCS 480-663910/1-A	Lab Control Sample	97	104	106	94
MB 480-663910/2-A	Method Blank	97	107	106	93

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-207459-1	BH3 3-7 FT	72	88	68	72	71	86
480-207459-2	BH4 1-2 FT	64	76	66	71	63	78 S1-
480-207459-3	BH5 3-6 FT	0 S1-	63	64	63	45 S1-	67 S1-
480-207459-4	BH6 2-4 FT	79	66	65	70	46 S1-	67 S1-
480-207459-5	BH7 1-4 FT	72	75	71	72	64	62 S1-
480-207459-6	BH8 2-4 FT	69	65	64	59	61	67 S1-
480-207459-7	BH9 2-4 FT	52 S1-	67	61	65	59	63 S1-
480-207459-8	BH10 2-4 FT	70	65	66	63	54	61 S1-
LCS 480-664077/2-A	Lab Control Sample	83	79	65	70	66	90
MB 480-664077/1-A	Method Blank	72	77	68	67	71	100

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)

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

Lab Sample ID: MB 480-663910/2-A
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 663910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.96	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.32	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
1,4-Dioxane	100	U	100	22	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Acetone	25	U	25	4.2	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Benzene	5.0	U	5.0	0.25	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Chloroform	0.457	J	5.0	0.31	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
n-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
N-Propylbenzene	5.0	U	5.0	0.40	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
sec-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
tert-Butylbenzene	5.0	U	5.0	0.52	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Toluene	5.0	U	5.0	0.38	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		04/04/23 17:33	04/04/23 21:14	1
Xylenes, Total	10	U	10	0.84	ug/Kg		04/04/23 17:33	04/04/23 21:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*	*04/04/23 17:33*	*04/04/23 21:14*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 126*	*04/04/23 17:33*	*04/04/23 21:14*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*04/04/23 17:33*	*04/04/23 21:14*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*04/04/23 17:33*	*04/04/23 21:14*	*1*

Lab Sample ID: LCS 480-663910/1-A
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	56.9		ug/Kg		114	77 - 121
1,1-Dichloroethane	50.0	54.1		ug/Kg		108	73 - 126
1,1-Dichloroethene	50.0	54.2		ug/Kg		108	59 - 125
1,2,4-Trimethylbenzene	50.0	44.5		ug/Kg		89	74 - 120
1,2-Dichlorobenzene	50.0	42.9		ug/Kg		86	75 - 120
1,2-Dichloroethane	50.0	48.3		ug/Kg		97	77 - 122

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

Lab Sample ID: LCS 480-663910/1-A
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	50.0	46.1		ug/Kg		92	74 - 120
1,3-Dichlorobenzene	50.0	44.2		ug/Kg		88	74 - 120
1,4-Dichlorobenzene	50.0	43.6		ug/Kg		87	73 - 120
1,4-Dioxane	1000	885		ug/Kg		89	64 - 124
2-Butanone (MEK)	250	254		ug/Kg		102	70 - 134
Acetone	250	234		ug/Kg		94	61 - 137
Benzene	50.0	53.7		ug/Kg		107	79 - 127
Carbon tetrachloride	50.0	59.9		ug/Kg		120	75 - 135
Chlorobenzene	50.0	46.1		ug/Kg		92	76 - 124
Chloroform	50.0	51.5		ug/Kg		103	80 - 120
cis-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	81 - 120
Ethylbenzene	50.0	47.5		ug/Kg		95	80 - 120
Methyl tert-butyl ether	50.0	52.9		ug/Kg		106	63 - 125
Methylene Chloride	50.0	53.9		ug/Kg		108	61 - 127
n-Butylbenzene	50.0	46.9		ug/Kg		94	70 - 120
N-Propylbenzene	50.0	46.0		ug/Kg		92	70 - 130
sec-Butylbenzene	50.0	47.1		ug/Kg		94	74 - 120
tert-Butylbenzene	50.0	46.8		ug/Kg		94	73 - 120
Tetrachloroethene	50.0	50.4		ug/Kg		101	74 - 122
Toluene	50.0	47.6		ug/Kg		95	74 - 128
trans-1,2-Dichloroethene	50.0	55.8		ug/Kg		112	78 - 126
Trichloroethene	50.0	55.3		ug/Kg		111	77 - 129
Vinyl chloride	50.0	60.0		ug/Kg		120	61 - 133
Xylenes, Total	100	95.6		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*
Dibromofluoromethane (Surr)	*106*		*60 - 140*
Toluene-d8 (Surr)	*94*		*71 - 125*

Lab Sample ID: 480-207459-7 MS
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: BH9 2-4 FT
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.6	U vs	56.8	51.5	vs	ug/Kg	☼	91	77 - 121
1,1-Dichloroethane	5.6	U vs	56.8	52.8	vs	ug/Kg	☼	93	73 - 126
1,1-Dichloroethene	5.6	U vs	56.8	47.8	vs	ug/Kg	☼	84	59 - 125
1,2,4-Trimethylbenzene	5.6	U vs F1	56.8	33.3	vs F1	ug/Kg	☼	59	74 - 120
1,2-Dichlorobenzene	5.6	U vs F1	56.8	31.2	vs F1	ug/Kg	☼	55	75 - 120
1,2-Dichloroethane	5.6	U vs	56.8	44.4	vs	ug/Kg	☼	78	77 - 122
1,3,5-Trimethylbenzene	5.6	U vs F1	56.8	34.3	vs F1	ug/Kg	☼	61	74 - 120
1,3-Dichlorobenzene	5.6	U vs F1	56.8	30.7	vs F1	ug/Kg	☼	54	74 - 120
1,4-Dichlorobenzene	5.6	U vs F1	56.8	29.8	vs F1	ug/Kg	☼	53	73 - 120
1,4-Dioxane	110	U vs F1	1140	652	vs F1	ug/Kg	☼	57	64 - 124
2-Butanone (MEK)	5.9	J vs F1	284	171	vs F1	ug/Kg	☼	58	70 - 134
Acetone	52	vs F1	284	187	vs F1	ug/Kg	☼	48	61 - 137

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

Lab Sample ID: 480-207459-7 MS
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: BH9 2-4 FT
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.27	J vs	56.8	50.7	vs	ug/Kg	☼	89	79 - 127
Carbon tetrachloride	5.6	U vs	56.8	49.7	vs	ug/Kg	☼	88	75 - 135
Chlorobenzene	5.6	U vs F1	56.8	38.6	vs F1	ug/Kg	☼	68	76 - 124
Chloroform	0.49	J vs B	56.8	51.1	vs	ug/Kg	☼	89	80 - 120
cis-1,2-Dichloroethene	5.6	U vs	56.8	48.6	vs	ug/Kg	☼	86	80 - 120
Ethylbenzene	5.6	U vs F1	56.8	38.2	vs F1	ug/Kg	☼	67	80 - 120
Methyl tert-butyl ether	5.6	U vs	56.8	49.8	vs	ug/Kg	☼	88	63 - 125
Methylene Chloride	5.6	U vs	56.8	52.8	vs	ug/Kg	☼	93	61 - 127
n-Butylbenzene	5.6	U vs F1	56.8	25.9	vs F1	ug/Kg	☼	46	70 - 120
N-Propylbenzene	5.6	U vs F1	56.8	32.1	vs F1	ug/Kg	☼	57	70 - 130
sec-Butylbenzene	5.6	U vs F1	56.8	30.2	vs F1	ug/Kg	☼	53	74 - 120
tert-Butylbenzene	5.6	U vs F1	56.8	33.5	vs F1	ug/Kg	☼	59	73 - 120
Tetrachloroethene	5.6	U vs F1	56.8	38.4	vs F1	ug/Kg	☼	68	74 - 122
Toluene	5.6	U vs F1	56.8	41.5	vs F1	ug/Kg	☼	73	74 - 128
trans-1,2-Dichloroethene	5.6	U vs F1	56.8	44.9	vs	ug/Kg	☼	79	78 - 126
Trichloroethene	5.6	U vs F1	56.8	46.3	vs	ug/Kg	☼	82	77 - 129
Vinyl chloride	5.6	U vs	56.8	50.8	vs	ug/Kg	☼	90	61 - 133
Xylenes, Total	11	U vs F1	114	77.6	vs F1	ug/Kg	☼	68	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*64 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*95*		*71 - 125*

Lab Sample ID: 480-207459-7 MSD
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: BH9 2-4 FT
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.6	U vs	56.8	49.5	vs	ug/Kg	☼	87	77 - 121	4	30
1,1-Dichloroethane	5.6	U vs	56.8	51.4	vs	ug/Kg	☼	91	73 - 126	3	30
1,1-Dichloroethene	5.6	U vs	56.8	39.8	vs	ug/Kg	☼	70	59 - 125	18	30
1,2,4-Trimethylbenzene	5.6	U vs F1	56.8	35.1	vs F1	ug/Kg	☼	62	74 - 120	5	30
1,2-Dichlorobenzene	5.6	U vs F1	56.8	33.7	vs F1	ug/Kg	☼	59	75 - 120	8	30
1,2-Dichloroethane	5.6	U vs	56.8	45.2	vs	ug/Kg	☼	80	77 - 122	2	30
1,3,5-Trimethylbenzene	5.6	U vs F1	56.8	36.4	vs F1	ug/Kg	☼	64	74 - 120	6	30
1,3-Dichlorobenzene	5.6	U vs F1	56.8	31.2	vs F1	ug/Kg	☼	55	74 - 120	2	30
1,4-Dichlorobenzene	5.6	U vs F1	56.8	30.1	vs F1	ug/Kg	☼	53	73 - 120	1	30
1,4-Dioxane	110	U vs F1	1140	675	F1	ug/Kg	☼	59	64 - 124	3	30
2-Butanone (MEK)	5.9	J vs F1	284	180	vs F1	ug/Kg	☼	61	70 - 134	5	30
Acetone	52	vs F1	284	182	vs F1	ug/Kg	☼	46	61 - 137	3	30
Benzene	0.27	J vs	56.8	49.7	vs	ug/Kg	☼	88	79 - 127	2	30
Carbon tetrachloride	5.6	U vs	56.8	47.3	vs	ug/Kg	☼	83	75 - 135	5	30
Chlorobenzene	5.6	U vs F1	56.8	39.7	vs F1	ug/Kg	☼	70	76 - 124	3	30
Chloroform	0.49	J vs B	56.8	50.6	vs	ug/Kg	☼	88	80 - 120	1	30
cis-1,2-Dichloroethene	5.6	U vs	56.8	46.8	vs	ug/Kg	☼	82	80 - 120	4	30
Ethylbenzene	5.6	U vs F1	56.8	38.3	vs F1	ug/Kg	☼	67	80 - 120	0	30

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

Lab Sample ID: 480-207459-7 MSD
Matrix: Solid
Analysis Batch: 663911

Client Sample ID: BH9 2-4 FT
Prep Type: Total/NA
Prep Batch: 663910

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether	5.6	U vs	56.8	50.5	vs	ug/Kg	☼	89	63 - 125	1	30
Methylene Chloride	5.6	U vs	56.8	52.8	vs	ug/Kg	☼	93	61 - 127	0	30
n-Butylbenzene	5.6	U vs F1	56.8	24.4	vs F1	ug/Kg	☼	43	70 - 120	6	30
N-Propylbenzene	5.6	U vs F1	56.8	31.7	vs F1	ug/Kg	☼	56	70 - 130	1	30
sec-Butylbenzene	5.6	U vs F1	56.8	30.6	vs F1	ug/Kg	☼	54	74 - 120	2	30
tert-Butylbenzene	5.6	U vs F1	56.8	35.9	vs F1	ug/Kg	☼	63	73 - 120	7	30
Tetrachloroethene	5.6	U vs F1	56.8	37.1	vs F1	ug/Kg	☼	65	74 - 122	3	30
Toluene	5.6	U vs F1	56.8	41.1	vs F1	ug/Kg	☼	72	74 - 128	1	30
trans-1,2-Dichloroethene	5.6	U vs F1	56.8	41.7	vs F1	ug/Kg	☼	73	78 - 126	8	30
Trichloroethene	5.6	U vs F1	56.8	43.4	vs F1	ug/Kg	☼	76	77 - 129	6	30
Vinyl chloride	5.6	U vs	56.8	45.2	vs	ug/Kg	☼	80	61 - 133	12	30
Xylenes, Total	11	U vs F1	114	80.8	vs	ug/Kg	☼	71	70 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*64 - 126*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*95*		*71 - 125*

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

Lab Sample ID: MB 480-664077/1-A
Matrix: Solid
Analysis Batch: 663968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	98	U	98	54	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
2-Methylphenol	170	U	170	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
3-Methylphenol	330	U	330	26	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
4-Methylphenol	330	U	330	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Acenaphthene	170	U	170	25	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Acenaphthylene	170	U	170	22	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Anthracene	170	U	170	41	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Chrysene	170	U	170	37	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Dibenzofuran	170	U	170	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Fluoranthene	170	U	170	18	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Fluorene	170	U	170	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Hexachlorobenzene	170	U	170	23	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Naphthalene	170	U	170	22	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Pentachlorophenol	330	U	330	170	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Phenanthrene	170	U	170	25	ug/Kg		04/05/23 15:45	04/06/23 11:15	1
Phenol	170	U	170	26	ug/Kg		04/05/23 15:45	04/06/23 11:15	1

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

Lab Sample ID: MB 480-664077/1-A
Matrix: Solid
Analysis Batch: 663968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	170	U	170	20	ug/Kg		04/05/23 15:45	04/06/23 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*54 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
2-Fluorobiphenyl (Surr)	*77*		*60 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
2-Fluorophenol (Surr)	*68*		*52 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
Nitrobenzene-d5 (Surr)	*67*		*53 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
Phenol-d5 (Surr)	*71*		*54 - 120*	*04/05/23 15:45*	*04/06/23 11:15*	*1*
p-Terphenyl-d14 (Surr)	*100*		*79 - 130*	*04/05/23 15:45*	*04/06/23 11:15*	*1*

Lab Sample ID: LCS 480-664077/2-A
Matrix: Solid
Analysis Batch: 663968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1650	692		ug/Kg		42	23 - 120
2-Methylphenol	1650	1230		ug/Kg		74	54 - 120
3-Methylphenol	1650	1250		ug/Kg		76	55 - 120
4-Methylphenol	1650	1250		ug/Kg		75	55 - 120
Acenaphthene	1650	1320		ug/Kg		80	62 - 120
Acenaphthylene	1650	1350		ug/Kg		82	58 - 121
Anthracene	1650	1500		ug/Kg		91	62 - 120
Benzo[a]anthracene	1650	1470		ug/Kg		89	65 - 120
Benzo[a]pyrene	1650	1500		ug/Kg		91	64 - 120
Benzo[b]fluoranthene	1650	1450		ug/Kg		88	64 - 120
Benzo[g,h,i]perylene	1650	1570		ug/Kg		95	45 - 145
Benzo[k]fluoranthene	1650	1650		ug/Kg		100	65 - 120
Chrysene	1650	1320		ug/Kg		80	64 - 120
Dibenz(a,h)anthracene	1650	1540		ug/Kg		93	54 - 132
Dibenzofuran	1650	1330		ug/Kg		80	63 - 120
Fluoranthene	1650	1290		ug/Kg		78	62 - 120
Fluorene	1650	1270		ug/Kg		77	63 - 120
Hexachlorobenzene	1650	1520		ug/Kg		92	60 - 120
Indeno[1,2,3-cd]pyrene	1650	1550		ug/Kg		94	56 - 134
Naphthalene	1650	1290		ug/Kg		78	55 - 120
Pentachlorophenol	3310	2800		ug/Kg		85	51 - 120
Phenanthrene	1650	1440		ug/Kg		87	60 - 120
Phenol	1650	1190		ug/Kg		72	53 - 120
Pyrene	1650	1640		ug/Kg		99	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*
2-Fluorobiphenyl (Surr)	*79*		*60 - 120*
2-Fluorophenol (Surr)	*65*		*52 - 120*
Nitrobenzene-d5 (Surr)	*70*		*53 - 120*
Phenol-d5 (Surr)	*66*		*54 - 120*
p-Terphenyl-d14 (Surr)	*90*		*79 - 130*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-664187/1-A
Matrix: Solid
Analysis Batch: 664493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	U	1.9	0.39	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Barium	0.49	U	0.49	0.11	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Beryllium	0.19	U	0.19	0.027	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Cadmium	0.19	U	0.19	0.029	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Chromium	0.49	U	0.49	0.19	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Copper	0.97	U	0.97	0.20	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Lead	0.97	U	0.97	0.23	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Manganese	0.0349	J	0.19	0.031	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Nickel	4.9	U	4.9	0.22	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Selenium	3.9	U	3.9	0.39	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Zinc	1.9	U	1.9	0.62	mg/Kg		04/06/23 14:44	04/07/23 18:42	1

Lab Sample ID: LCSSRM 480-664187/2-A
Matrix: Solid
Analysis Batch: 664493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664187

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	103.5		mg/Kg		80.2	60.9 - 113.2
Barium	169	151.2		mg/Kg		89.5	68.6 - 114.2
Beryllium	137	102.5		mg/Kg		74.9	66.3 - 110.2
Cadmium	227	177.5		mg/Kg		78.2	64.8 - 110.1
Chromium	115	93.90		mg/Kg		81.7	62.4 - 115.7
Copper	76.0	73.41		mg/Kg		96.6	69.5 - 115.8
Lead	74.8	82.99		mg/Kg		110.9	67.0 - 128.9
Manganese	400	330.7		mg/Kg		82.7	70.5 - 115.8
Nickel	282	257.3		mg/Kg		91.2	62.1 - 114.9
Selenium	246	190.6		mg/Kg		77.5	60.2 - 114.6
Zinc	401	310.7		mg/Kg		77.5	62.8 - 116.7

Lab Sample ID: MB 480-664352/1-A
Matrix: Solid
Analysis Batch: 664595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	U	1.9	0.38	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Barium	0.48	U	0.48	0.10	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Beryllium	0.19	U	0.19	0.027	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Cadmium	0.19	U	0.19	0.029	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Chromium	0.48	U	0.48	0.19	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Copper	0.95	U	0.95	0.20	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Lead	0.95	U	0.95	0.23	mg/Kg		04/07/23 14:36	04/10/23 12:54	1

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

Lab Sample ID: MB 480-664352/1-A
Matrix: Solid
Analysis Batch: 664595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0343	J	0.19	0.030	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Nickel	4.8	U	4.8	0.22	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Selenium	3.8	U	3.8	0.38	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Silver	0.57	U	0.57	0.19	mg/Kg		04/07/23 14:36	04/10/23 12:54	1
Zinc	1.9	U	1.9	0.61	mg/Kg		04/07/23 14:36	04/10/23 12:54	1

Lab Sample ID: LCSSRM 480-664352/2-A
Matrix: Solid
Analysis Batch: 664595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664352

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	97.52		mg/Kg		75.6	60.9 - 113.2
Barium	169	142.3		mg/Kg		84.2	68.6 - 114.2
Beryllium	137	105.3		mg/Kg		76.9	66.3 - 110.2
Cadmium	227	172.2		mg/Kg		75.9	64.8 - 110.1
Chromium	115	90.81		mg/Kg		79.0	62.4 - 115.7
Copper	76.0	59.57		mg/Kg		78.4	69.5 - 115.8
Lead	74.8	80.09		mg/Kg		107.1	67.0 - 128.9
Manganese	400	344.5		mg/Kg		86.1	70.5 - 115.8
Nickel	282	251.6		mg/Kg		89.2	62.1 - 114.9
Selenium	246	183.6		mg/Kg		74.6	60.2 - 114.6
Silver	87.5	66.52		mg/Kg		76.0	63.7 - 115.4
Zinc	401	295.2		mg/Kg		73.6	62.8 - 116.7

Lab Sample ID: MB 480-664355/1-A
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1	U	2.1	0.42	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Barium	0.52	U	0.52	0.11	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Beryllium	0.21	U	0.21	0.029	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Cadmium	0.21	U	0.21	0.031	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Chromium	0.52	U	0.52	0.21	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Copper	1.0	U	1.0	0.22	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Lead	1.0	U	1.0	0.25	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Manganese	0.0633	J	0.21	0.033	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Nickel	5.2	U	5.2	0.24	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Selenium	4.2	U	4.2	0.42	mg/Kg		04/07/23 14:36	04/10/23 16:51	1
Silver	0.62	U	0.62	0.21	mg/Kg		04/07/23 14:36	04/10/23 16:51	1

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

Lab Sample ID: MB 480-664355/1-A
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.1	U	2.1	0.66	mg/Kg		04/07/23 14:36	04/10/23 16:51	1

Lab Sample ID: LCSSRM 480-664355/2-A
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	99.84		mg/Kg		77.4	60.9 - 113.2
Barium	169	142.9		mg/Kg		84.6	68.6 - 114.2
Beryllium	137	102.9		mg/Kg		75.1	66.3 - 110.2
Cadmium	227	170.2		mg/Kg		75.0	64.8 - 110.1
Chromium	115	91.72		mg/Kg		79.8	62.4 - 115.7
Copper	76.0	60.78		mg/Kg		80.0	69.5 - 115.8
Lead	74.8	75.53		mg/Kg		101.0	67.0 - 128.9
Manganese	400	342.7		mg/Kg		85.7	70.5 - 115.8
Nickel	282	249.0		mg/Kg		88.3	62.1 - 114.9
Selenium	246	179.5		mg/Kg		73.0	60.2 - 114.6
Silver	87.5	67.85		mg/Kg		77.5	63.7 - 115.4
Zinc	401	298.5		mg/Kg		74.4	62.8 - 116.7

Lab Sample ID: 480-207459-8 MS
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: BH10 2-4 FT
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	3.6		47.7	49.85		mg/Kg	☼	97	75 - 125
Barium	128	F1	47.7	157.6	F1	mg/Kg	☼	61	75 - 125
Beryllium	0.24		47.7	42.70		mg/Kg	☼	89	75 - 125
Cadmium	0.67		47.7	44.68		mg/Kg	☼	92	75 - 125
Chromium	15.8		47.7	56.67		mg/Kg	☼	86	75 - 125
Lead	185	F1	47.7	289.5	F1	mg/Kg	☼	220	75 - 125
Manganese	505	B F2	47.7	649.9	4	mg/Kg	☼	303	75 - 125
Nickel	7.3		47.7	55.99		mg/Kg	☼	102	75 - 125
Selenium	4.6	U	47.7	41.90		mg/Kg	☼	88	75 - 125
Silver	0.69	U	11.9	10.97		mg/Kg	☼	92	75 - 125
Zinc	241	F2	47.7	222.5	4	mg/Kg	☼	-40	75 - 125

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

Lab Sample ID: 480-207459-8 MS
Matrix: Solid
Analysis Batch: 664778

Client Sample ID: BH10 2-4 FT
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Copper	17.7		47.7	71.25		mg/Kg	☼	112	75 - 125		

Lab Sample ID: 480-207459-8 MSD
Matrix: Solid
Analysis Batch: 664708

Client Sample ID: BH10 2-4 FT
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.6		46.8	48.69		mg/Kg	☼	96	75 - 125	2	20
Barium	128	F1	46.8	134.5	F1	mg/Kg	☼	13	75 - 125	16	20
Beryllium	0.24		46.8	41.97		mg/Kg	☼	89	75 - 125	2	20
Cadmium	0.67		46.8	45.28		mg/Kg	☼	95	75 - 125	1	20
Chromium	15.8		46.8	63.06		mg/Kg	☼	101	75 - 125	11	20
Lead	185	F1	46.8	295.7	F1	mg/Kg	☼	237	75 - 125	2	20
Manganese	505	B F2	46.8	528.4	4 F2	mg/Kg	☼	49	75 - 125	21	20
Nickel	7.3		46.8	61.22		mg/Kg	☼	115	75 - 125	9	20
Selenium	4.6	U	46.8	41.32		mg/Kg	☼	88	75 - 125	1	20
Silver	0.69	U	11.7	10.78		mg/Kg	☼	92	75 - 125	2	20
Zinc	241	F2	46.8	487.5	4 F2	mg/Kg	☼	526	75 - 125	75	20

Lab Sample ID: 480-207459-8 MSD
Matrix: Solid
Analysis Batch: 664778

Client Sample ID: BH10 2-4 FT
Prep Type: Total/NA
Prep Batch: 664355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	17.7		46.8	68.86		mg/Kg	☼	109	75 - 125	3	20

Lab Sample ID: MB 480-664563/1-A
Matrix: Solid
Analysis Batch: 664776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.0	U	1.0	0.21	mg/Kg		04/10/23 14:43	04/11/23 12:33	1
Silver	0.60	U	0.60	0.20	mg/Kg		04/10/23 14:43	04/11/23 12:33	1

Lab Sample ID: LCDSRM 480-664563/3-A
Matrix: Solid
Analysis Batch: 664776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 664563

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper			76.0	61.13		mg/Kg		80.4	69.5 - 115.8	6	20
Silver			87.5	59.93		mg/Kg		68.5	63.7 - 115.4	3	20

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

Lab Sample ID: LCSSRM 480-664563/2-A
Matrix: Solid
Analysis Batch: 664776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664563

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Copper	76.0	65.00		mg/Kg		85.5	69.5 - 115.8
Silver	87.5	58.09		mg/Kg		66.4	63.7 - 115.4

Lab Sample ID: 480-207459-1 MS
Matrix: Solid
Analysis Batch: 664810

Client Sample ID: BH3 3-7 FT
Prep Type: Total/NA
Prep Batch: 664563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	F1	44.4	86.91		mg/Kg	☼	105	75 - 125
Silver	0.65	U	11.1	10.79		mg/Kg	☼	97	75 - 125

Lab Sample ID: 480-207459-1 MSD
Matrix: Solid
Analysis Batch: 664810

Client Sample ID: BH3 3-7 FT
Prep Type: Total/NA
Prep Batch: 664563

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	40.0	F1	45.1	72.05	F1	mg/Kg	☼	71	75 - 125	19	20
Silver	0.65	U	11.3	10.82		mg/Kg	☼	96	75 - 125	0	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-665001/1-A
Matrix: Solid
Analysis Batch: 665164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 665001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0045	mg/Kg		04/13/23 10:54	04/13/23 12:51	1

Lab Sample ID: LCSSRM 480-665001/2-A ^10
Matrix: Solid
Analysis Batch: 665164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 665001

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	20.7	11.93		mg/Kg		57.6	38.3 - 110.1

GC/MS VOA

Prep Batch: 663910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-6	BH8 2-4 FT	Total/NA	Solid	5035A_L	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	5035A_L	
MB 480-663910/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-663910/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-207459-7 MS	BH9 2-4 FT	Total/NA	Solid	5035A_L	
480-207459-7 MSD	BH9 2-4 FT	Total/NA	Solid	5035A_L	

Analysis Batch: 663911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-6	BH8 2-4 FT	Total/NA	Solid	8260C	663910
480-207459-7	BH9 2-4 FT	Total/NA	Solid	8260C	663910
MB 480-663910/2-A	Method Blank	Total/NA	Solid	8260C	663910
LCS 480-663910/1-A	Lab Control Sample	Total/NA	Solid	8260C	663910
480-207459-7 MS	BH9 2-4 FT	Total/NA	Solid	8260C	663910
480-207459-7 MSD	BH9 2-4 FT	Total/NA	Solid	8260C	663910

GC/MS Semi VOA

Analysis Batch: 663968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	8270D	664077
480-207459-2	BH4 1-2 FT	Total/NA	Solid	8270D	664077
480-207459-4	BH6 2-4 FT	Total/NA	Solid	8270D	664077
480-207459-5	BH7 1-4 FT	Total/NA	Solid	8270D	664077
480-207459-6	BH8 2-4 FT	Total/NA	Solid	8270D	664077
480-207459-7	BH9 2-4 FT	Total/NA	Solid	8270D	664077
480-207459-8	BH10 2-4 FT	Total/NA	Solid	8270D	664077
MB 480-664077/1-A	Method Blank	Total/NA	Solid	8270D	664077
LCS 480-664077/2-A	Lab Control Sample	Total/NA	Solid	8270D	664077

Prep Batch: 664077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	3550C	
480-207459-2	BH4 1-2 FT	Total/NA	Solid	3550C	
480-207459-3	BH5 3-6 FT	Total/NA	Solid	3550C	
480-207459-4	BH6 2-4 FT	Total/NA	Solid	3550C	
480-207459-5	BH7 1-4 FT	Total/NA	Solid	3550C	
480-207459-6	BH8 2-4 FT	Total/NA	Solid	3550C	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	3550C	
480-207459-8	BH10 2-4 FT	Total/NA	Solid	3550C	
MB 480-664077/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-664077/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 664319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-3	BH5 3-6 FT	Total/NA	Solid	8270D	664077

Metals

Prep Batch: 664187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 664187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-664187/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-664187/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 664352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-2	BH4 1-2 FT	Total/NA	Solid	3050B	
480-207459-3	BH5 3-6 FT	Total/NA	Solid	3050B	
480-207459-4	BH6 2-4 FT	Total/NA	Solid	3050B	
480-207459-5	BH7 1-4 FT	Total/NA	Solid	3050B	
480-207459-6	BH8 2-4 FT	Total/NA	Solid	3050B	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	3050B	
MB 480-664352/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-664352/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 664355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-8	BH10 2-4 FT	Total/NA	Solid	3050B	
MB 480-664355/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-664355/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-207459-8 MS	BH10 2-4 FT	Total/NA	Solid	3050B	
480-207459-8 MSD	BH10 2-4 FT	Total/NA	Solid	3050B	

Analysis Batch: 664493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	6010C	664187
MB 480-664187/1-A	Method Blank	Total/NA	Solid	6010C	664187
LCSSRM 480-664187/2-A	Lab Control Sample	Total/NA	Solid	6010C	664187

Prep Batch: 664563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	3050B	
MB 480-664563/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-664563/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-664563/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-207459-1 MS	BH3 3-7 FT	Total/NA	Solid	3050B	
480-207459-1 MSD	BH3 3-7 FT	Total/NA	Solid	3050B	

Analysis Batch: 664595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-2	BH4 1-2 FT	Total/NA	Solid	6010C	664352
480-207459-3	BH5 3-6 FT	Total/NA	Solid	6010C	664352
480-207459-4	BH6 2-4 FT	Total/NA	Solid	6010C	664352
480-207459-5	BH7 1-4 FT	Total/NA	Solid	6010C	664352
480-207459-6	BH8 2-4 FT	Total/NA	Solid	6010C	664352
480-207459-7	BH9 2-4 FT	Total/NA	Solid	6010C	664352
MB 480-664352/1-A	Method Blank	Total/NA	Solid	6010C	664352
LCSSRM 480-664352/2-A	Lab Control Sample	Total/NA	Solid	6010C	664352

Analysis Batch: 664708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-8	BH10 2-4 FT	Total/NA	Solid	6010C	664355

Metals (Continued)

Analysis Batch: 664708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-664355/1-A	Method Blank	Total/NA	Solid	6010C	664355
LCSSRM 480-664355/2-A	Lab Control Sample	Total/NA	Solid	6010C	664355
480-207459-8 MS	BH10 2-4 FT	Total/NA	Solid	6010C	664355
480-207459-8 MSD	BH10 2-4 FT	Total/NA	Solid	6010C	664355

Analysis Batch: 664776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-664563/1-A	Method Blank	Total/NA	Solid	6010C	664563
LCDSRM 480-664563/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	664563
LCSSRM 480-664563/2-A	Lab Control Sample	Total/NA	Solid	6010C	664563

Analysis Batch: 664778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-3	BH5 3-6 FT	Total/NA	Solid	6010C	664352
480-207459-4	BH6 2-4 FT	Total/NA	Solid	6010C	664352
480-207459-8	BH10 2-4 FT	Total/NA	Solid	6010C	664355
480-207459-8 MS	BH10 2-4 FT	Total/NA	Solid	6010C	664355
480-207459-8 MSD	BH10 2-4 FT	Total/NA	Solid	6010C	664355

Analysis Batch: 664810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	6010C	664563
480-207459-1 MS	BH3 3-7 FT	Total/NA	Solid	6010C	664563
480-207459-1 MSD	BH3 3-7 FT	Total/NA	Solid	6010C	664563

Prep Batch: 665001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	7471B	
480-207459-2	BH4 1-2 FT	Total/NA	Solid	7471B	
480-207459-3	BH5 3-6 FT	Total/NA	Solid	7471B	
480-207459-4	BH6 2-4 FT	Total/NA	Solid	7471B	
480-207459-5	BH7 1-4 FT	Total/NA	Solid	7471B	
480-207459-6	BH8 2-4 FT	Total/NA	Solid	7471B	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	7471B	
480-207459-8	BH10 2-4 FT	Total/NA	Solid	7471B	
MB 480-665001/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-665001/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 665164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	7471B	665001
480-207459-2	BH4 1-2 FT	Total/NA	Solid	7471B	665001
480-207459-3	BH5 3-6 FT	Total/NA	Solid	7471B	665001
480-207459-4	BH6 2-4 FT	Total/NA	Solid	7471B	665001
480-207459-5	BH7 1-4 FT	Total/NA	Solid	7471B	665001
480-207459-6	BH8 2-4 FT	Total/NA	Solid	7471B	665001
480-207459-7	BH9 2-4 FT	Total/NA	Solid	7471B	665001
480-207459-8	BH10 2-4 FT	Total/NA	Solid	7471B	665001
MB 480-665001/1-A	Method Blank	Total/NA	Solid	7471B	665001
LCSSRM 480-665001/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	665001

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

General Chemistry

Analysis Batch: 663900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207459-1	BH3 3-7 FT	Total/NA	Solid	Moisture	
480-207459-2	BH4 1-2 FT	Total/NA	Solid	Moisture	
480-207459-3	BH5 3-6 FT	Total/NA	Solid	Moisture	
480-207459-4	BH6 2-4 FT	Total/NA	Solid	Moisture	
480-207459-5	BH7 1-4 FT	Total/NA	Solid	Moisture	
480-207459-6	BH8 2-4 FT	Total/NA	Solid	Moisture	
480-207459-7	BH9 2-4 FT	Total/NA	Solid	Moisture	
480-207459-8	BH10 2-4 FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1
Date Collected: 04/03/23 08:30
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH3 3-7 FT
Lab Sample ID: 480-207459-1
Date Collected: 04/03/23 08:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		1	663968	JMM	EET BUF	04/06/23 16:38
Total/NA	Prep	3050B			664187	NVK	EET BUF	04/06/23 14:44
Total/NA	Analysis	6010C		1	664493	LMH	EET BUF	04/07/23 20:54
Total/NA	Prep	3050B			664563	VAK	EET BUF	04/10/23 14:43
Total/NA	Analysis	6010C		1	664810	LMH	EET BUF	04/11/23 15:35
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:07

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2
Date Collected: 04/03/23 09:00
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH4 1-2 FT
Lab Sample ID: 480-207459-2
Date Collected: 04/03/23 09:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 17:03
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 14:36
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:08

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3
Date Collected: 04/03/23 09:30
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH5 3-6 FT
Lab Sample ID: 480-207459-3
Date Collected: 04/03/23 09:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		20	664319	JMM	EET BUF	04/07/23 11:53
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 14:40
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		5	664778	LMH	EET BUF	04/11/23 13:08
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:09

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4
Date Collected: 04/03/23 10:00
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH6 2-4 FT
Lab Sample ID: 480-207459-4
Date Collected: 04/03/23 10:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		20	663968	JMM	EET BUF	04/06/23 17:54
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 14:56
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		5	664778	LMH	EET BUF	04/11/23 13:12
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:10

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5
Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5
Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 18:19
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 15:00

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Client Sample ID: BH7 1-4 FT
Lab Sample ID: 480-207459-5
Date Collected: 04/03/23 10:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:12

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6
Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH8 2-4 FT
Lab Sample ID: 480-207459-6
Date Collected: 04/03/23 11:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			663910	CDC	EET BUF	04/04/23 17:33
Total/NA	Analysis	8260C		1	663911	CDC	EET BUF	04/04/23 23:16
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 18:45
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 15:04
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:13

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7
Date Collected: 04/03/23 11:30
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH9 2-4 FT
Lab Sample ID: 480-207459-7
Date Collected: 04/03/23 11:30
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			663910	CDC	EET BUF	04/04/23 17:33
Total/NA	Analysis	8260C		1	663911	CDC	EET BUF	04/04/23 23:40
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 19:10
Total/NA	Prep	3050B			664352	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664595	LMH	EET BUF	04/10/23 15:08
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:14

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8
Date Collected: 04/03/23 12:00
Matrix: Solid
Date Received: 04/03/23 15:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	663900	JMM	EET BUF	04/04/23 15:47

Client Sample ID: BH10 2-4 FT
Lab Sample ID: 480-207459-8
Date Collected: 04/03/23 12:00
Matrix: Solid
Date Received: 04/03/23 15:17
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664077	SJM	EET BUF	04/05/23 15:45
Total/NA	Analysis	8270D		10	663968	JMM	EET BUF	04/06/23 19:35
Total/NA	Prep	3050B			664355	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		1	664708	LMH	EET BUF	04/10/23 16:58
Total/NA	Prep	3050B			664355	NVK	EET BUF	04/07/23 14:36
Total/NA	Analysis	6010C		5	664778	LMH	EET BUF	04/11/23 12:33
Total/NA	Prep	7471B			665001	NVK	EET BUF	04/13/23 10:54
Total/NA	Analysis	7471B		1	665164	NVK	EET BUF	04/13/23 13:16

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
Job ID: 480-207459-1
Project/Site: Old Falls Street

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
Job ID: 480-207459-1
Project/Site: Old Falls Street

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-207459-1
Project/Site: Old Falls Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207459-1	BH3 3-7 FT	Solid	04/03/23 08:30	04/03/23 15:17
480-207459-2	BH4 1-2 FT	Solid	04/03/23 09:00	04/03/23 15:17
480-207459-3	BH5 3-6 FT	Solid	04/03/23 09:30	04/03/23 15:17
480-207459-4	BH6 2-4 FT	Solid	04/03/23 10:00	04/03/23 15:17
480-207459-5	BH7 1-4 FT	Solid	04/03/23 10:30	04/03/23 15:17
480-207459-6	BH8 2-4 FT	Solid	04/03/23 11:00	04/03/23 15:17
480-207459-7	BH9 2-4 FT	Solid	04/03/23 11:30	04/03/23 15:17
480-207459-8	BH10 2-4 FT	Solid	04/03/23 12:00	04/03/23 15:17

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Cox	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-182773-38809.1
Client Contact: Jason Brydges	Phone: 716 418 0192	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Brydges Engineering in Environment & Energy DPC	PWSID:	Analysis Requested		Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, 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), Other:
City: Buffalo	TAT Requested (days): 10 day			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone: 716-362-6533(Tel)	PO #: Purchase Order not required			
Email: jbrydges@be3corp.com jcox@be3corp.com	WO #: Old Falls Street			
Project Name: AMD Edgemere Old Falls Street	Project #: 48024347			
Site: Old Falls Street	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B	8270D - Part 375 SVOCs	8260C - Part 375 VOCs (LL BULK)	8260C - Part 375 VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
BH3 3-7 FT	4/3	8:30	G	Solid			X	X				
BH4 1-2 FT	4/3	9:00	G	Solid			X	X				
BH5 3-6 FT	4/3	9:30	G	Solid			X	X				
BH6 2-4 FT	4/3	10:00	G	Solid			X	X				
BH7 1-4 FT	4/3	10:30	G	Solid			X	X				
BH8 2-4 FT	4/3	11:00	G	Solid			X	X	X			
[redacted] BH9 2-4 FT	4/3	11:30	G	Solid			X	X	X			
BH10 2-4 FT	4/3	12:00	G	Solid			X	X				
				Solid								
				Solid								
				Solid								

480-207459 Chain of Custody

Page 45 of 46

4-13

4/14/2023

Possible 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: None

Empty Kit Relinquished by: Jacob Cox | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Cox	4/3 3:00 PM	BE3	[illegible]	4/3/23 1517	T/T

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 9.2 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-207459-1

Login Number: 207459
List Number: 1
Creator: Yeager, Brian A

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.	N/A	
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	BE3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	