
SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION REPORT

**JEFFERSON AND BEST SITE
BUFFALO, NEW YORK**

May 2023

T0562-023-001

Prepared for:

CB Emmanuel

Prepared by:



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PHASE II ENVIRONMENTAL INVESTIGATION REPORT

JEFFERSON AND BEST SITE BUFFALO, NEW YORK

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1.0 INTRODUCTION

1.1 Background and Site Description

TurnKey Environmental Restoration, LLC (TurnKey) performed a Phase II Environmental Investigation for CB Emmanuel at the Jefferson and Best Site addressed as 1003 - 1045 Jefferson Avenue, 94 - 120 Earl Place, and 403 - 411 Best Street, located in the City of Buffalo, Erie County, New York (Site).

The Site, consisting of nine parcels totaling 3.1-acres, is supplied with/has access to municipal sanitary sewer, electric, natural-gas and public water, and is located in a highly developed commercial and residential area (see Figure 1). As shown on Figure 2, the Site is vacant/underutilized land and is currently developed with three buildings (such are vacant commercial buildings). TurnKey understands that the Site is currently slated for redevelopment as an affordable housing project.

Historical research completed by TurnKey, which included review of historic Sanborn maps, has revealed that the Site was previously used for a variety of commercial/industrial operations, between at least 1926 and at least 1950, including automotive painting, automotive repair, laundry/drycleaning, an oil warehouse, a machine shop, sign painting and manufacturing, ice housing, bottling with bottle washing, and pasteurizing. One gasoline underground storage tank (UST) was identified on the north-central part of the Site from at least 1926 through at least 1950. An additional gasoline UST was identified off-site within the Jefferson Avenue right-of-way (east adjacent to a former sheet metal shop and auto painting operation) from at least 1926 through at least 1950.

Previous Phase II activities by others, which are further discussed below, identified elevated concentrations of polycyclic aromatic hydrocarbons (PAHs) and metals in fill, and elevated volatile organic compounds (VOCs) in groundwater and sub-slab air samples.

The purpose of TurnKey's supplemental Phase II investigation was to provide additional coverage of subsurface conditions across the Site parcels with collection and laboratory analysis of additional soil/fill samples. In addition to the soil/fill investigation, a geophysical survey (EM-61) was performed across accessible exterior portions of the Site to identify subsurface metallic anomalies potentially associated with USTs, utilities, and other buried metallic objects.

Additional information relative to the work completed at the Site by TurnKey and others is provided below.

1.2 Previous Studies

LiRo Engineers, Inc. (LiRo) completed a Phase II Environmental Subsurface Investigation at the Site for Local Initiatives Support Corporation and documented the findings in a report dated February 28, 2022. LiRo identified the history of the Site as an automotive paint and repair shop and a historic dry cleaner. As part of LiRo's investigation, a total of 12 soil borings (LB-01 through LB-12) were completed across the Site to depths between 6 fbgs and 16 fbgs. Subsurface lithology was described as fill materials (consisting of mixtures of brick, cinders, coal and wood) ranging from 1 foot below ground surface (fbgs) to 6.6 fbgs, overlying native soils (red brown silt and clays). Groundwater, encountered at 9 of 12 soil borings, reportedly ranged between 4 fbgs and 8 fbgs. LiRo identified elevated concentrations of PAHs and metals at concentrations exceeding Restricted Residential Soil Cleanup Objectives (RRSCOs, the applicable SCO based on the future intended use of the Site for affordable housing) in soil/fill samples collected from the Site. No polychlorinated biphenyls (PCBs) were detected at concentrations above laboratory detection limits in two composite soil/fill samples collected from the Site.

LiRo completed a supplemental Phase II at the Site and documented the findings in a report, dated November 16, 2022. The work consisted of collection of ten surface soil samples (SS-1 through SS-10), completion of five soil borings (LB-13 through LB-17), three of which were converted into temporary one-inch diameter monitoring wells (GW LB-13, GW LB-14, and GW LB-16), and sub-slab soil vapor sampling from the northern-most building at two sample points (SSV-01 and 02). Photoionization detector (PID) readings up to 13.8 parts per million (ppm) were identified during the work at LB-13 (4-6 fbgs).

Laboratory analytical results revealed the following:

- Surface soil/fill samples – PAHs and/or metals at concentrations above RRSCOs in seven surface soil samples (SS-1, SS-2, SS-4, SS-5, SS-6, SS-8, and SS-9).
- Subsurface soil/fill samples – xylenes above RRSCOs in one soil sample (LB-13, 4-5”).
- Groundwater sampling - trichloroethene (TCE), a chlorinated VOC, at a concentration above its Groundwater Quality Standard (GWQS) at one well (GW LB-16), benzene

and methyl tert-butyl ether (MtBE), both petroleum VOCs, exceeding their respective GWQS at one well (GW LB-13).

- Sub-slab vapor sampling in northern-most building - TCE exceedances in both sub-slab vapor samples at concentrations requiring mitigation in comparison to the New York State Department of Health (NYSDOH) Decision Matrices.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 Geophysical Survey

Prior to TurnKey's test pit investigation that is further detailed below, between April 12, 2023 and April 16, 2023, a geophysical survey was completed on-Site, across the Site in accessible exterior areas, by TurnKey's subcontractor, Maddan Geophysics LLC (Maddan). Maddan used non-intrusive EM-61 equipment to identify potential buried metallic anomalies. The EM-61 unit is a high sensitivity, high resolution time domain electromagnetic (TDEM) metal detector that can detect both ferrous and nonferrous metallic objects. It has an approximate investigation depth of 10 feet. The geophysical work was completed across the subject parcel. A figure showing the limits of the geophysical survey along with potential subsurface structures (anomalies) was generated by Maddan along with a written report (see Appendix C).

2.2 Test Pit Investigation

On April 17, 2023, TurnKey mobilized a track-mounted excavator to the Site. As shown on Figure 3, 15 test pits designated as BMTP-1 through BMTP-15 were completed on-Site. All test pits were completed until native soils were encountered or to the maximum reach of the excavator at approximately eight feet below ground surface (fbgs). Additional information relative to findings during the test pit investigation is provided in Section 3.0.

The physical characteristics of all test pits were classified using the ASTM D2488 Visual-Manual Procedure Description. Soils from each test pit were screened via headspace screening using a MiniRae 3000 Photoionization Detector (PID). Visual and/or olfactory observations were noted. All field observations, including lithology, depths, PID scan results, etc., at each investigation location are summarized in the Test Pit Log sheets provided in Appendix A. Photographs taken during the work are included in Appendix B.

Twelve (12) soil/fill samples selected for laboratory analysis were transported under chain-of custody command to Eurofins Buffalo (Eurofins) in Amherst, New York for analysis of polycyclic aromatic hydrocarbons (PAHs) and Resource Conservation and Recovery Act (RCRA) metals via United States Environmental Protection Agency (USEPA) Methods 8270D and 6010C/7471B, respectively. All samples were collected in laboratory provided sample bottles and were cooled to 4⁰ C prior to transport.

3.0 INVESTIGATION FINDINGS

3.1 Geophysical Survey

Maddan's report (see Appendix C) indicates that numerous subsurface buried metallic anomalies were observed during the survey. Specifically, ten anomalies, identified as Anomaly A through Anomaly J, were identified during the work. TurnKey's test pit investigation further assessed the nature of the anomalies, as follows:

- Anomaly A – determined to be a former building foundation.
- Anomaly B – determined to be a former building foundation.
- Anomaly C – determined to be a former building foundation.
- Anomaly D – determined to be a metal pipe.
- Anomaly E – determined to be a metal pipe.
- Anomaly F – determined to be a metal pipe.
- Anomaly G – determined to be a buried presumed large radiator unit.
- Anomaly H – determined to be metal piping.
- Anomaly I – determined to be a metal plate.
- Anomaly J – likely related to remnants of building foundations.

3.2 Site Geology/Hydrogeology

The overburden geology observed during the investigation activities is generally described as fill materials ranging in depths between 0.5 fbgs and 6 fbgs and even to at least the bottom of certain test pits at 7-8 fbgs (i.e., BMTP-2, BMTP-5, and BMTP-12). Fill materials consisted of cinders/black fines, sand, and gravel with fragments of brick and concrete. Ash was noted intermingled with fill materials at BMTP-1, BMTP-2, and BMTP-7 and a yellow material with coal was noted in fill at BMTP-3. Miscellaneous debris/solid waste, as further discussed above and in the table below, was encountered at BMTP-2, BMTP-5, BMTP-7, BMTP-8, BMTP-11, and BMTP-12. Native soils beneath fill materials consisted of sand with silt or sandy lean clay.

Groundwater was not encountered during TurnKey’s work. However, during previous drilling work by others, groundwater was noted at depths ranging between four fbgs and eight fbgs.

Groundwater flow is likely to the north towards Scajaquada Creek or west toward Lake Erie. Local groundwater flow, however, may be influenced by subsurface features, such as excavations, utilities, and localized fill-conditions.

3.3 Field Observations

Soil samples from the test pit investigation were observed and scanned via headspace screening for total volatile organics using a PID. A brief description of the field observations during the boring investigation is presented below:

Investigation Location ID	Environmental Concern Assessed	Highest PID reading (parts per million, ppm) and depth (fbgs)	Other Observations
BMTP-1	Anomaly C on the northwest portion of the Site and general Site conditions.	0.0 ppm throughout boring.	Fill to 3 fbgs. Former building foundation encountered.
BMTP-2	Anomaly G east of existing north-most building and general Site conditions.	0.0 ppm throughout boring.	Fill to at least 7 fbgs. Large, presumed radiator unit encountered.
BMTP-3	Anomaly H on north-central portion of the Site and general Site conditions.	0.0 ppm throughout boring.	Fill to 1.5 fbgs., metal piping encountered.
BMTP-4	Former gasoline UST area per historic Sanborn maps.	0.0 ppm throughout boring.	None
BMTP-5	Anomaly A on the north portion of the Site.	0.0 ppm throughout boring.	Fill to at least 8 fbgs. Former building foundation encountered.
BMTP-6	Anomaly D on the east portion of the Site.	0.0 ppm throughout boring.	Fill to at least 2 fbgs, metal piping encountered.
BMTP-7	Anomaly E on the east portion of the Site.	0.0 ppm throughout boring.	Fill to at least 2 fbgs, metal piping encountered.
BMTP-8	Anomaly F on the east portion of the Site.	0.0 ppm throughout boring.	Metal piping encountered at 6 inches.
BMTP-9	Anomaly I on the central portion of the Site, north of a loading ramp.	0.0 ppm throughout boring.	Metal plate encountered.
BMTP-10	Anomaly J/ former buildings on the south part of the Site.	0.0 ppm throughout boring.	Fill to 0.5 fbgs. Remnants of building foundations encountered.

Investigation Location ID	Environmental Concern Assessed	Highest PID reading (parts per million, ppm) and depth (fbgs)	Other Observations
BMTP-11	Site conditions east of south-most building and proximate to former buildings	0.0 ppm throughout boring.	Fill to 0.5 fbgs.
BMTP-12	Anomaly J/ former buildings on south part of Site.	0.0 ppm throughout boring.	Fill to at least 8 fbgs. Remnants of building foundations encountered.
BMTP-13	Anomaly B/ former buildings on northeast portion of the Site.	0.0 ppm throughout boring.	Fill to 5 fbgs. Former building foundation encountered.
BMTP-14	Anomaly B/ former buildings on northeast portion of the Site.	0.0 ppm throughout boring.	Fill to 6 fbgs. Former building foundations encountered.
BMTP-15	Site conditions on the east-central portion of the Site.	0.0 ppm throughout boring.	Fill to 0.75 fbgs. Remnants of building foundations encountered.

3.4 Soil Analytical Results

Table 1 presents a summary of the detected PAHs and metals for each of the twelve soil/fill samples selected for laboratory analysis from TurnKey’s investigation. Figure 3 includes a summary of laboratory analytical results from TurnKey’s investigation and previous assessments by others.

For comparative purposes, Table 1 includes 6NYCRR Part 375 Unrestricted, Restricted-Residential, Commercial and Industrial Use Soil Cleanup Objectives (USCOs, RRSCOs, CSCOs and ISCOs, respectively). Part 375 SCOs are specific to the intended reuse of the site and are typically employed for comparison at other remediation sites with NYSDEC oversight, such as Brownfield sites. Based upon current zoning and the anticipated future use of the site in a residential capacity (affordable housing), the RRSCOs were considered the most applicable comparative criteria. A copy of the laboratory analytical data package is included in Appendix D.

As summarized on Table 1 and Figure 3, PAHs and/or metals were identified at concentrations exceeding USCOs, RRSCOs, CSCOs and/or ISCOs in all 12 soil/fill samples collected from across the Site. Specifically, in regard to PAHs, individual concentrations exceeded their respective ISCOs at 8 sample locations (BMTP-1, BMTP-3, BMTP-5, BMTP-10, BMTP-11, BMTP-12, BMTP-13, and BMTP-15). The highest total PAH concentrations, which would be considered hot spots if the Site were in a regulatory program, were 7,953

milligrams per kilogram (mg/kg) at BMTP-1 (1-3 ft), 843 mg/kg at BMTP-11, and 6,461 mg/kg at BMTP-12.

Metals (arsenic, barium, cadmium, chromium, lead and/or mercury) were identified at concentrations exceeding USCOs, RRSCOs, CSCOs and/or ISCOs in 10 of the 12 soil/fill sample locations. Of note, arsenic exceeded its ISCO at BMTP-14 (18.1 mg/kg) and barium exceeded its respective CSCO at BMTP-3 (415 mg/kg) and BMTP-14 (472 mg/kg). The highest total lead concentration, which exceeds its ISCO, was identified at BMTP-11 (7,120 mg/kg). Additional lead concentrations exceeding its RRSCO and/or CSCO were identified at BMTP-1 (795 mg/kg), BMTP-3 (566 mg/kg), BMTP-6 (747 mg/kg), BMTP-13 (967 mg/kg), and BMTP-14 (3,060 mg/kg). Mercury exceeded its RRSCO at BMTP-13 (0.82 mg/kg), BMTP-13 (1.1 mg/kg), and BMTP-14 (0.9 mg/kg).

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of Phase II investigation activities at the Site, TurnKey offers the following conclusions and recommendations:

- The Site is slated for redevelopment as an affordable housing project.
- The Site has a history of automotive painting, automotive repair, laundry/drycleaning, an oil warehouse, a machine shop, sign painting and manufacturing, ice housing, bottling with bottle washing, and pasteurizing. One gasoline UST was identified on the north-central part of the Site from at least 1926 through at least 1950 and an additional gasoline UST was identified off-site within the Jefferson Avenue right-of-way (east adjacent to a former sheet metal shop and auto painting operation) from at least 1926 through at least 1950.
- Fill materials were observed across the Site during TurnKey's investigation at depths ranging between 0.5 fbg and 6 fbg and even to at least the bottom of certain test pits at 7-8 fbg. Fill materials generally consisted of cinders/black fines, ash, sand, and/or gravel with fragments of brick and concrete.
- As further detailed below and on Figure 3, laboratory analysis of fill samples collected from across the Site revealed environmental impacts with concentrations exceeding RRSCOs (i.e., the applicable SCO for the planned redevelopment) from each subject parcel.
- A geophysical assessment completed across accessible exterior portions of the Site identified subsurface metallic anomalies. TurnKey's test pit investigation confirmed that anomalies are associated with buried metal debris/solid waste, including disconnected pipes, and a large, presumed radiator unit. No evidence of an UST was encountered during the work.
- Previous Phase II activities by others, summarized on Figure 3, identified widespread soil/fill impacts with elevated concentrations of PAHs and metals, and to a lesser extent petroleum, with concentrations exceeding their respective RRSCOs (the most applicable SCO for the Site). In addition, groundwater sampling at the Site revealed a chlorinated VOC (TCE) and petroleum VOCs (benzene and MtBE) in groundwater at elevated concentrations exceeding their respective GWQS. Sub-slab vapor sampling in the northern-most existing building at the Site revealed TCE at concentrations above its mitigation threshold at two sub-slab sample locations.
- TurnKey's Phase II revealed the presence of additional soil/fill impacts across the Site with concentrations of PAHs and/or metals exceeding their respective

RRSCOs in 11 of 12 soil/fill samples collected from the Site (see Figure 3). Of note, the highest total PAH concentrations, which would be considered hot spots if the Site were in a regulatory program, were 7,953 mg/kg at BMTP-1 (1-3 ft), 843 mg/kg at BMTP-11, and 6,461 mg/kg at BMTP-12. In addition, arsenic exceeded its ISCO at BMTP-14 (18.1 mg/kg), barium exceeded its respective CSCO at BMTP-3 (415 mg/kg) and BMTP-14 (472 mg/kg), and lead exceeded its ISCO at BMTP-11 (7,120 mg/kg) and its CSCO at BMTP-14 (3060 mg/kg).

We understand that the Site is being considered for redevelopment. Based on the findings detailed above, the Site is a potential candidate for the New York State BCP. Regardless of whether the BCP is pursued, impacted soil/fill materials present on-Site will require exposure control, remediation, and/or proper soil management either prior to or during the redevelopment project.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of the CB Emmanuel. The contents of this report are limited to information available at the time of the Site investigation activities and to data referenced herein, and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of CB Emmanuel. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

TABLES



TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
JEFFERSON AND BEST SITE
BUFFALO, NEW YORK

PARAMETER ¹	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	Industrial Use SCOs ²	SAMPLE LOCATION (DEPTH)											
					BMTP-1 1-3 ft	BMTP-3 0-1.5 ft	BMTP-5 4-6 ft	BMTP-6 1-2 ft	BMTP-7 1-2 ft	BMTP-10 0-0.5 ft	BMTP-11 0-0.5 ft	BMTP-12 1-3 ft	BMTP-13 1-3 ft	BMTP-13 3-5 ft	BMTP-14 0-0.5 ft	BMTP-15 0-0.5 ft
Sample Date	04/17/2023															
Polyaromatic Hydrocarbons (PAHs) ³																
Acenaphthene	20	100	500	1000	120	ND	0.29 J	ND	0.18 J	0.46 J	15 J	41 J	ND	ND	0.24 J	ND
Acenaphthylene	100	100	500	1000	19	ND	0.13 J	ND	ND	ND	ND	31 J	0.8 J	ND	ND	ND
Anthracene	100	100	500	1000	260	0.69 J	0.73 J	ND	0.32	1.5	24 J	160	0.93 J	ND	0.45 J	0.63 J
Benzo(a)anthracene	1	1	5.6	11	550	1.5 J	2.1	0.13 J	0.61	3.3	62	530	3.2	0.28 J	0.85 J	1.8 J
Benzo(a)pyrene	1	1	1	1.1	540	1.4 J	2.2	ND	0.59	3.1	61	560	3.4	0.32 J	0.86 J	1.8 J
Benzo(b)fluoranthene	1	1	5.6	11	680	1.7 J	2.7	ND	0.64	3.6	79	640	3.9	0.34 J	1	2.2
Benzo(ghi)perylene	100	100	500	1000	340	0.78 J	1.4	ND	0.32	1.8	33 J	320	2.1	0.22 J	0.49 J	0.91 J
Benzo(k)fluoranthene	0.8	3.9	56	110	320	0.89 J	1.1	ND	0.27	1.5	31 J	270	1.5 J	0.21 J	0.4 J	0.85 J
Chrysene	1	3.9	56	110	550	1.5 J	2.3	ND	0.6	3.5	70	510	2.9	0.33 J	0.91 J	1.9
Dibenzo(a,h)anthracene	0.33	0.33	0.56	1.1	100	ND	0.4 J	ND	0.1 J	0.56 J	11 J	84	0.57 J	ND	ND	ND
Fluoranthene	100	100	500	1000	1500	3.5	4.6	0.15 J	1.2	7.4	170	1300	7.4	0.62 J	2.2	3.7
Fluorene	30	100	500	1000	150	0.3 J	0.42 J	ND	0.12 J	0.77 J	13 J	53	0.33 J	ND	0.21 J	ND
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	330	0.76 J	1.3	ND	0.29	1.7	34 J	310	1.8 J	0.2 J	0.47 J	0.89 J
Naphthalene	12	100	500	1000	94	ND	0.39 J	ND	0.042 J	0.49 J	ND	12 J	0.33 J	ND	ND	ND
Phenanthrene	100	100	500	1000	1300	2.6	3.6	ND	1.2	5.8	130	640	2.9	0.36 J	1.9	2.2
Pyrene	100	100	500	1000	1100	2.4	3.6	0.16 J	1.2	5.8	110	1000	6.2	0.48 J	1.7	2.8
Total PAHs	100	100	500	1000	7953	18.02 J	27.26 J	0.44 J	7.682 J	41.28 J	843 J	6461 J	38.26 J	3.36 J	11.68 J	19.68 J
Metals - mg/Kg																
Arsenic	13	16	16	16	5.9 J	8.3 J	7.4 J	7.5 J	5.9 J	4.3 J	4.9 J	5 J	11.5 J	8.7 J	18.1 J	4.3 J
Barium	350	400	400	10,000	74.6	415	122	124	71.9	66.7	207	83.6	193	146	472	43 JF1F2
Cadmium	2.5	4.3	9.3	60	3.1 J	3 J	0.51 J	0.47 J	0.2 J	0.25 J	2.5 J	0.67 J	1.5 J	0.54 J	2.5 J	1.3 J
Chromium	31	180	1500	6800	101	171	21.3 J	29.2 J	18 J	16.8 J	98.6 J	20.4 J	24.7 J	25.5 J	32.4 J	87.8 F1
Lead	64	400	1000	3900	795	566	256	747	90.5 J	44 J	7120	62.2 J	967	19.3 J	3060	166 F1
Mercury	0.18	0.81	2.8	5.7	0.13 F1F2	0.067	0.49	0.28	0.079	0.044	0.086	0.048	0.82	1.1	0.9	0.064
Selenium	3.9	180	1500	6800	ND	ND	ND	0.62 J	ND	ND	ND	ND	1.1 J	1.8 J	ND	ND
Silver	2	180	1500	6800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43 J	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCLs

Definitions:

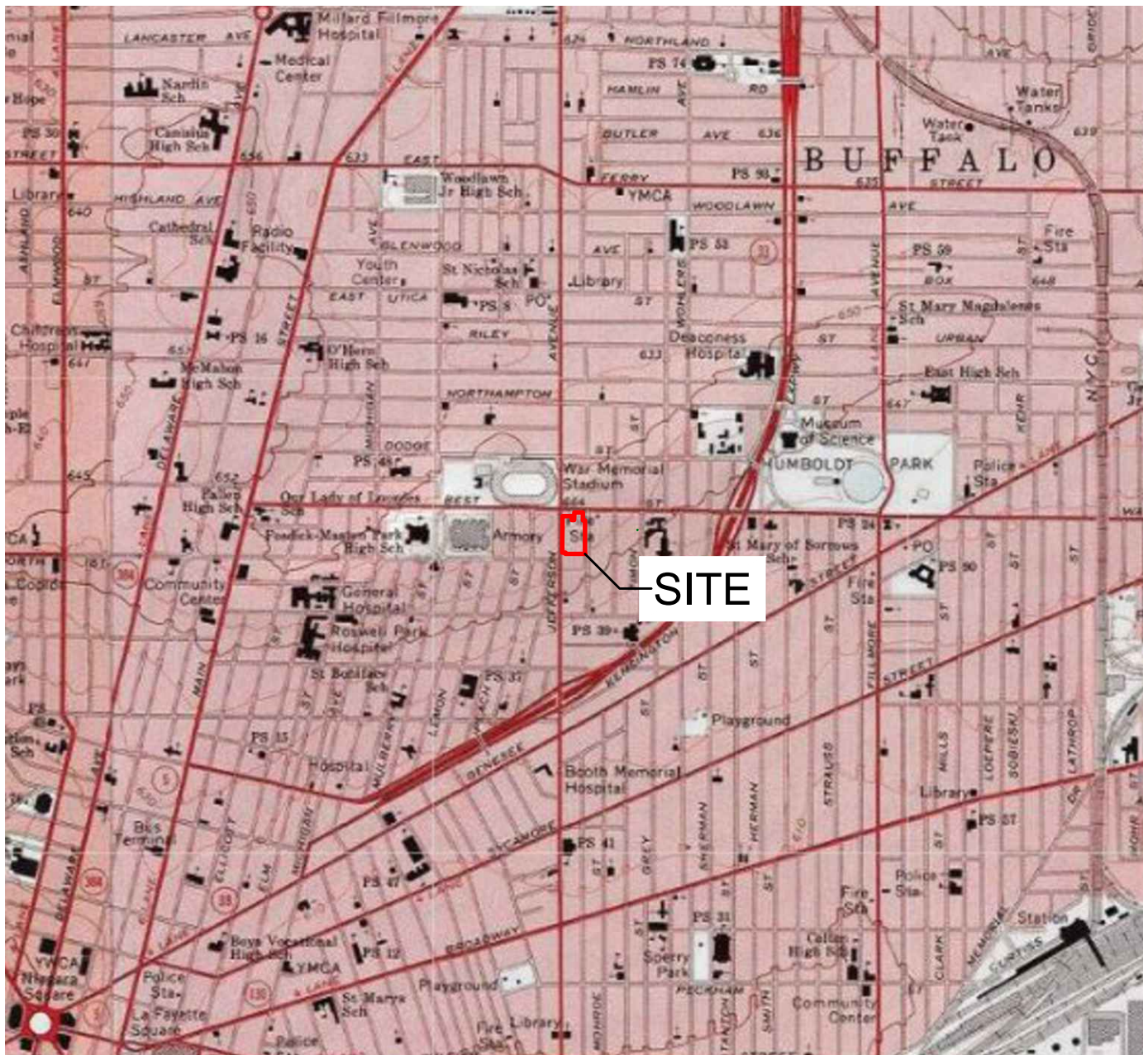
ND = Parameter not detected above laboratory detection limit.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.
 F1 = MS and/or MSD recovery exceeds control limits.
 F2 = MS/MSD RPD exceeds control limits.

Bold	: Results exceed Unrestricted Use SCOs
Bold	: Results exceed Restricted Residential Use SCOs
Bold	: Results exceed Commercial Use SCOs
Bold	: Results exceed Industrial Use SCOs

FIGURES

FIGURE 1

F:\CAD\TurnKey\CB Emanuel\Jefferson and Best\Phase II\Figure 1: Site Location and Vicinity Map.dwg



SCALE: 1 INCH = 2000 FEET
 SCALE IN FEET
 (approximate)



SITE LOCATION AND VICINITY MAP

SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION

JEFFERSON AND BEST SITE
 BUFFALO, NEW YORK

PREPARED FOR
 CB EMMANUEL



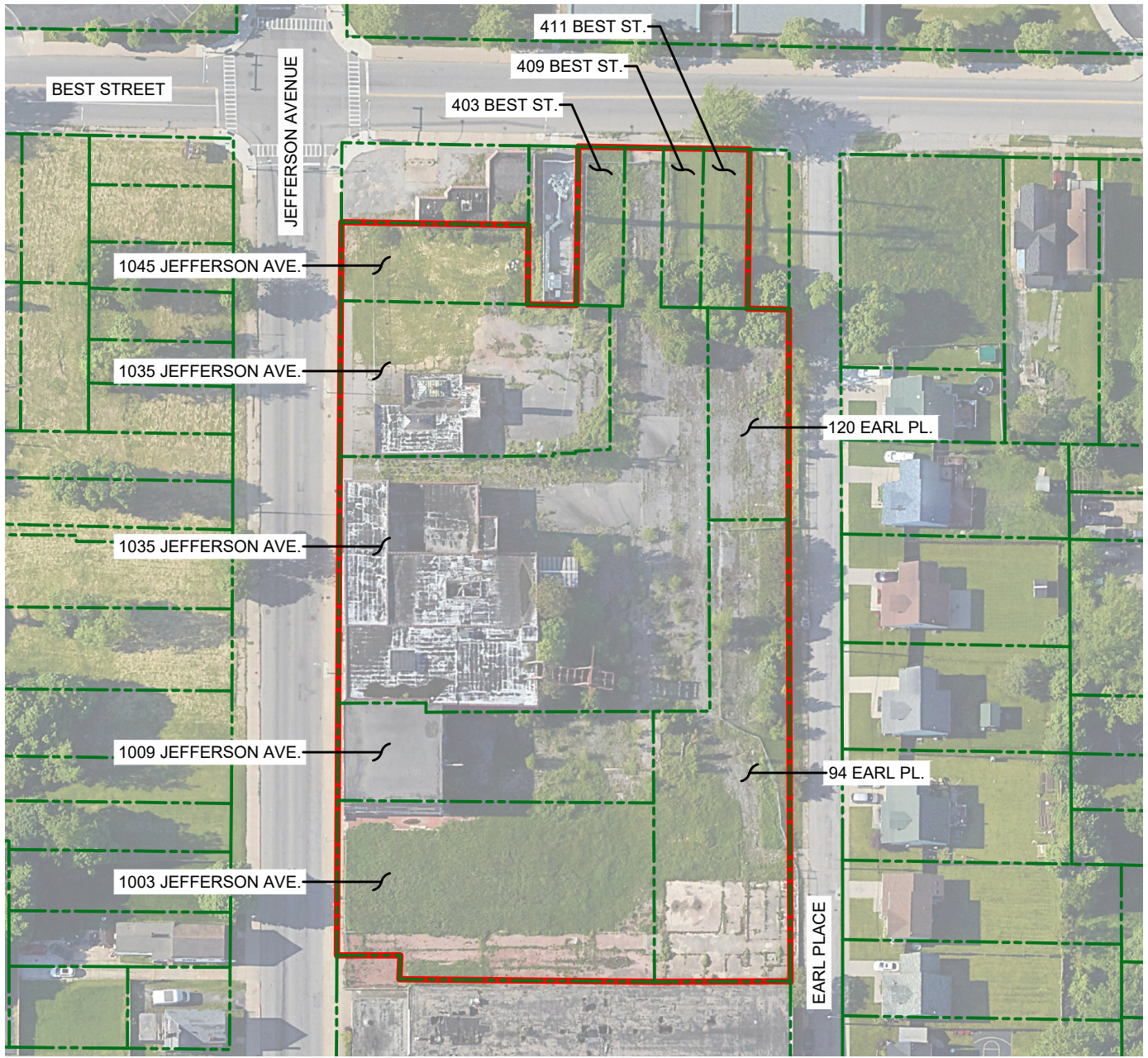
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

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DATE:	MAY 2023
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FIGURE 2

F:\CAD\TurnKey\CB Emanuel\Jefferson and Best\Phase II\Figure 2_Site Plan (Aerial).dwg



SCALE: 1 INCH = 100 FEET
 SCALE IN FEET
 (approximate)

LEGEND:

- PROPERTY BOUNDARY
- - - - - PARCEL BOUNDARY



2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: T0562-023-001
DATE: MAY 2023
DRAFTED BY: CMS

SITE PLAN (AERIAL)

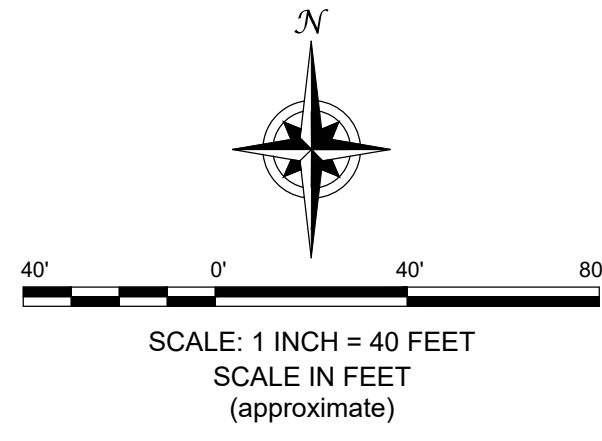
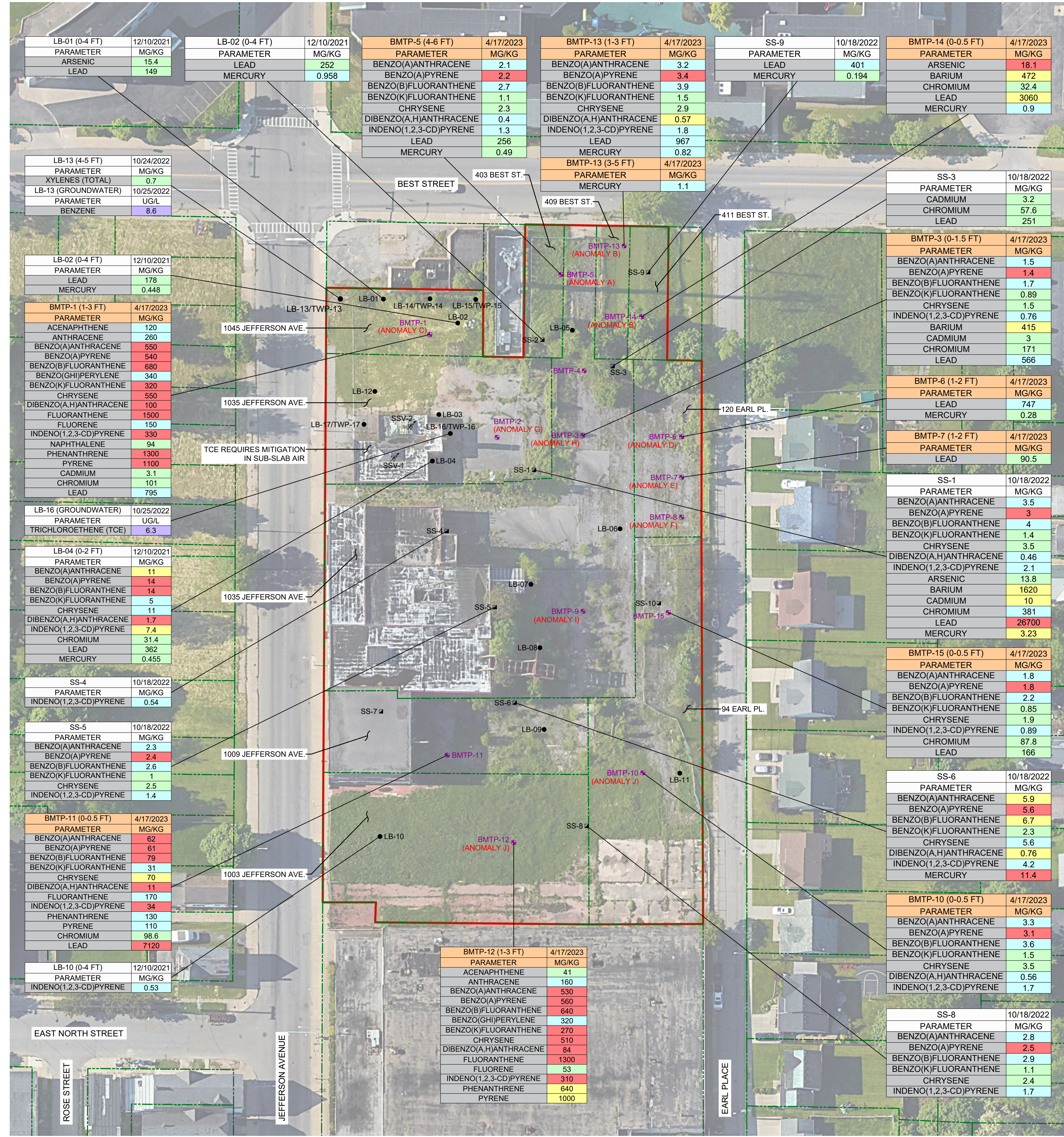
SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION
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- LEGEND:
- PROPERTY BOUNDARY
 - PARCEL BOUNDARY
 - BMP-1 SUPPLEMENTAL PHASE II TEST PIT (TURNKEY, APRIL 2023)
 - SB-1 PHASE II SOIL BORING (LIRO, DECEMBER 2021)
 - SS-1 SURFACE SOIL SAMPLE (LIRO, OCTOBER 2022)
 - SUB-1 SUBSLAB VAPOR (LIRO, OCTOBER 2022)
 - EXCEEDS UNRESTRICTED USE SCOs²
 - EXCEEDS RESTRICTED-RESIDENTIAL USE SCOs²
 - EXCEEDS COMMERCIAL USE SCOs²
 - EXCEEDS INDUSTRIAL USE SCOs²
 - EXCEEDS CLASS GA GROUNDWATER QUALITY STANDARDS³

- NOTES:
- IMAGE TAKEN FROM GOOGLE EARTH 2022.
 - ANOMALY LOCATIONS IDENTIFIED AS 'ANOMALY A' THROUGH 'ANOMALY J' NOTED IN GEOPHYSICAL SURVEY RESULTS LETTER REPORT BY MADDAN GEOPHYSICS LLC IN APRIL 2023.
 - RESULTS COMPARED TO 6 NYCRR PART 375 SOIL CLEANUP OBJECTIVES (SCOs).
 - RESULTS COMPARED TO DIVISION OF WATER TECHNICAL AND OPERATIONAL GUIDANCE SERIES (1.1.1) AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS



REVISIONS

NO.	BY	DATE	REMARKS

SEAL

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DRAWN BY:	CMS
DATE:	MAY 2023
CHECKED BY:	MAL
APPROVED BY:	

TURNKEY ENVIRONMENTAL RESTORATION, LLC
 2525 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218
 (716) 836-0599
 TURNKEY ENVIRONMENTAL RESTORATION, LLC IS AN EQUAL OPPORTUNITY EMPLOYER. WE DO NOT DISCRIMINATE IN EMPLOYMENT ON THE BASIS OF RACE, GENDER, NATIONALITY, ANCESTRY, RELIGION, AGE, OR DISABILITY. IF YOU ARE AN INDIVIDUAL WITH A DISABILITY AND YOU ARE HAVING DIFFICULTY ACCESSING ANY OF OUR SERVICES, PLEASE CONTACT US AT (716) 836-0599. THE MATERIALS CONSIST OF INFORMATION FROM A PUBLIC RECORD REQUEST BY TURNKEY ENVIRONMENTAL RESTORATION, LLC.

INVESTIGATION LOCATIONS AND AREAS OF CONCERN
 SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION
 JEFFERSON AND BEST SITE
 BUFFALO, NEW YORK
 PREPARED FOR
 CB EMMANUEL

FIGURE 3

APPENDIX A

TEST PIT LOGS

TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001 Project: Jefferson and Best Site Client: CB Emmanuel Site Location: Buffalo, NY	Test Pit I.D.: BMTP-1 Logged By: NAS Checked By: BWM
--	---

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface		0 25 50 75 100 ppm		
		Fill Brown/ white/ black/ red, moist, mostly fill (cinders, brick, ash, concrete), some fine sand, medium dense, no odors		0.0 0.0 0.0 0.0	Sampled (1-3 ft)	
	-3.0 3.0	Fine sand with silt Brown, moist, mostly fine sand, little silt, medium dense, no odors		0.0 0.0 0.0 0.0		
5.0				0.0 0.0		
	-7.0 7.0	End of Test Pit		0.0		
10.0						

Excavated By: TurnKey Environmental Restoration Length: 10 Excavator Type: Kubota Mini Excavator KX040 Width: 2 Excavation Date(s): 4/17/2023 Depth: 7 Comments:	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
--	--

Sheet: 1 of 1

TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001 Project: Jefferson and Best Site Client: CB Emmanuel Site Location: Buffalo, NY	Test Pit I.D.: BMTP-2 Logged By: NAS Checked By: BWM
--	---

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface		0 25 50 75 100 ppm		
		Fill Grey/white, moist, mostly fill (ash, brick, concrete, limestone, metal piping), encountered suspect radiator, some fine sand, loose when disturbed, no odors		0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
	-7.0 7.0	End of Test Pit				
10.0						

Excavated By: TurnKey Environmental Restoration Length: 10 Excavator Type: Kubota Mini Excavator KX040 Width: 4 Excavation Date(s): 4/17/2023 Depth: 7 Comments:	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
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TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001 Project: Jefferson and Best Site Client: CB Emmanuel Site Location: Buffalo, NY	Test Pit I.D.: BMTP-3 Logged By: NAS Checked By: BWM
--	---

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface		0 25 50 75 100 ppm		
		Fill Brown/yellow/black, moist, mostly fine sand, some fill (yellow material, coal), medium dense, no odors		0.0 0.0	0.0 0.0	Sampled (0-1.5 ft)
	-1.5 1.5	Fine Sand with Silt Brown, moist, mostly fine sand, little silt, medium dense, no odors		0.0 0.0 0.0 0.0		
5.0	-5.0 5.0	End of Test Pit		0.0		
10.0						

Excavated By: TurnKey Environmental Restoration Length: 10 Excavator Type: Kubota Mini Excavator KX040 Width: 3 Excavation Date(s): 4/17/2023 Depth: 5 Comments:	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
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TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001	Test Pit I.D.: BMTP-4
Project: Jefferson and Best Site	Logged By: NAS
Client: CB Emmanuel	Checked By: BWM
Site Location: Buffalo, NY	

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface		0 25 50 75 100 ppm		
		Fine sand and gravel Grey, moist, mostly fine sand, some medium sand, little subangular gravel, medium dense, no odors		0.0 0.0		
	-1.5 1.5	Sandy Lean Clay Brown, moist, mostly lean clay, some fine sand, stiff, no odors		0.0 0.0 0.0 0.0		
5.0	-5.0 5.0	End of Test Pit		0.0		
10.0						

Excavated By: TurnKey Environmental Restoration Length: 10 Excavator Type: Kubota Mini Excavator KX040 Width: 2 Excavation Date(s): 4/17/2023 Depth: 5 Comments:	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
--	--

TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001	Test Pit I.D.: BMTP-5
Project: Jefferson and Best Site	Logged By: NAS
Client: CB Emmanuel	Checked By: BWM
Site Location: Buffalo, NY	

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface		0 25 50 75 100 ppm		
		Reworked Fine sand with Fill Brown, moist, mostly fine sand, some fill (subangular gravel, concrete, brick, asphalt, metal, wood, plastic), loose when disturbed, no odors	[Hatched Pattern]	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
5.0					Sampled (4-6 ft)	
	-8.0 8.0	End of Test Pit		0.0		
10.0						

Excavated By: TurnKey Environmental Restoration Excavator Type: Kubota Mini Excavator KX040 Excavation Date(s): 4/17/2023 Comments:	Length: 10 Width: 3 Depth: 8	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
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Sheet: 1 of 1

TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001

Test Pit I.D.: BMTP-6

Project: Jefferson and Best Site

Logged By: NAS

Client: CB Emmanuel

Checked By: BWM

Site Location: Buffalo, NY

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0	Ground Surface		0 25 50 75 100		
	0.0	Asphalt		0.0		
	-0.3	Subangular Gravel		0.0		
	-0.5	Fill		0.0	Sampled (1-2 ft)	
	0.5	Grey, moist, mostly subangular gravel, little fine sand, loose when disturbed, no odors				
	-2.0	Fine sand with Silt		0.0		
	2.0	Brown, moist, mostly fine sand, some silt, medium dense, no odors				
5.0	-5.0	End of Test Pit		0.0		
	5.0					
10.0						

Excavated By: TurnKey Environmental Restoration **Length:** 10
Excavator Type: Kubota Mini Excavator KX040 **Width:** 3
Excavation Date(s): 4/17/2023 **Depth:** 5
Comments:

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001

Test Pit I.D.: BMTP-7

Project: Jefferson and Best Site

Logged By: NAS

Client: CB Emmanuel

Checked By: BWM

Site Location: Buffalo, NY

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0	Ground Surface		0 25 50 75 100 ppm		
	0.0	Asphalt		0.0		
	-0.3	Subangular Gravel		0.0		
	-0.5	Grey, moist, mostly subangular gravel, little fine sand, loose when disturbed, no odors		0.0		
	0.5	Fill		0.0	Sampled (1-2 ft)	
	-2.0	Black, moist, mostly fine sand, some fill (ash, cinders, metal piping), medium dense, no odors		0.0		
	2.0	Fine sand with Silt		0.0		
	-4.0	Brown, moist, mostly fine sand, some silt, medium dense, no odors		0.0		
	4.0	End of Test Pit		0.0		
5.0						
10.0						

Excavated By: TurnKey Environmental Restoration **Length:** 10
Excavator Type: Kubota Mini Excavator KX040 **Width:** 3
Excavation Date(s): 4/17/2023 **Depth:** 4
Comments:

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001 Project: Jefferson and Best Site Client: CB Emmanuel Site Location: Buffalo, NY	Test Pit I.D.: BMTP-8 Logged By: NAS Checked By: BWM
--	---

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0 -0.3 0.3 -0.5 0.5	Ground Surface Asphalt Subangular Gravel Grey, moist, mostly subangular gravel, little fine sand, steel pipe at 6 inches, loose when disturbed, no odors Fine sand with Silt Brown, moist, mostly fine sand, some silt, medium dense, no odors		ppm 0 25 50 75 100 0.0 0.0 0.0 0.0 0.0		
5.0	-5.0 5.0	End of Test Pit				
10.0						

Excavated By: TurnKey Environmental Restoration Length: 10 Excavator Type: Kubota Mini Excavator KX040 Width: 3 Excavation Date(s): 4/17/2023 Depth: 5 Comments:	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
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TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001 Project: Jefferson and Best Site Client: CB Emmanuel Site Location: Buffalo, NY	Test Pit I.D.: BMTP-9 Logged By: NAS Checked By: BWM
--	---

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0	Ground Surface		0 25 50 75 100 ppm		
0.0	0.0	Asphalt		0.0		
0.3	0.3	Subangular Gravel		0.0		
-0.8	0.8	Grey, moist, mostly subangular gravel, little fine sand, loose when disturbed, no odors		0.0		
		Fine sand with Silt		0.0		
		Brown, moist, mostly fine sand, some silt, medium dense, no odors		0.0		
5.0				0.0		
-6.0	6.0	End of Test Pit		0.0		
10.0				0.0		

Excavated By: TurnKey Environmental Restoration Length: 10 Excavator Type: Kubota Mini Excavator KX040 Width: 3 Excavation Date(s): 4/17/2023 Depth: 6 Comments:	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
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TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001 Project: Jefferson and Best Site Client: CB Emmanuel Site Location: Buffalo, NY	Test Pit I.D.: BMTP-10 Logged By: NAS Checked By: BWM
--	--

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface		0		
-0.5	-0.5 0.5	Subangular Gravel with fill Grey, moist, mostly subangular gravel, little fine sand, trace fill (cinders, black fines) loose when disturbed, no odors Sandy Lean Clay Reddish brown, moist, mostly lean clay, some fine sand, stiff, no odors		0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	Sampled (0-0.5 ft)
-4.0	-4.0 4.0	End of Test Pit		0.0		
5.0						
10.0						

Excavated By: TurnKey Environmental Restoration Length: 10 Excavator Type: Kubota Mini Excavator KX040 Width: 3 Excavation Date(s): 4/17/2023 Depth: 4 Comments:	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
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TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001

Test Pit I.D.: BMTP-11

Project: Jefferson and Best Site

Logged By: NAS

Client: CB Emmanuel

Checked By: BWM

Site Location: Buffalo, NY

SUBSURFACE PROFILE				PID VOCs ppm 0 25 50 75 100	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface				
	-0.5	Fill Black, moist, mostly fine sand, some fill (black fines, cinders, metal pieces), loose when disturbed, no odors	[Cross-hatched symbol]	0.0	Sampled (0-0.5 ft)	
	0.5			0.0		
	-0.8			0.0		
	0.8	Asphalt	[Dotted symbol]	0.0		
	-1.0			0.0		
	1.0	Subangular Gravel Grey, moist, mostly subangular gravel, some fine sand, loose when disturbed, no odors	[Vertical lines symbol]	0.0		
		Fine Sand and Silt Tan, moist, mostly fine sand, some silt, medium dense, no odors	[Horizontal lines symbol]	0.0		
5.0	-5.0 5.0	End of Test Pit		0.0		
10.0						

Excavated By: TurnKey Environmental Restoration **Length:** 10
Excavator Type: Kubota Mini Excavator KX040 **Width:** 3
Excavation Date(s): 4/17/2023 **Depth:** 5
Comments:

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001	Test Pit I.D.: BMTTP-12
Project: Jefferson and Best Site	Logged By: NAS
Client: CB Emmanuel	Checked By: BWM
Site Location: Buffalo, NY	

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface		0 25 50 75 100 ppm		
		Fill Brown/black, moist, mostly fill (cinders, black fines, brick, fire brick, metal rebar, metal piping, conduit, concrete), loose when disturbed, no odors	[Hatched Pattern]	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Sampled (1-3 ft)	
-8.0 8.0		End of Test Pit		0.0		
10.0						

Excavated By: TurnKey Environmental Restoration Excavator Type: Kubota Mini Excavator KX040 Excavation Date(s): 4/17/2023 Comments:	Length: 10 Width: 3 Depth: 8	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
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TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001

Test Pit I.D.: BMTP-13

Project: Jefferson and Best Site

Logged By: NAS

Client: CB Emmanuel

Checked By: BWM

Site Location: Buffalo, NY

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks	
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol				
0.0	0.0	Ground Surface		0 25 50 75 100 ppm			
	0.0	Topsoil Brown, moist, mostly silty sand, medium dense, no odors		0.0			
	-0.4	Fill Grey/brown/black, moist, mostly fill (cinders, black fines, concrete, brick, gravel), some fine sand, loose when disturbed, no odors		0.0			
	0.4			0.0		Sampled (1-3 ft)	
				0.0		Sampled (3-5 ft)	
5.0	-5.0 5.0	Sandy Lean Clay Reddish brown, moist, mostly lean clay, some fine sand, stiff, no odors		0.0			
	-6.0 6.0	End of Test Pit		0.0			
10.0							

Excavated By: TurnKey Environmental Restoration **Length:** 10
Excavator Type: Kubota Mini Excavator KX040 **Width:** 3
Excavation Date(s): 4/17/2023 **Depth:** 6
Comments:

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001 Project: Jefferson and Best Site Client: CB Emmanuel Site Location: Buffalo, NY	Test Pit I.D.: BMTP-14 Logged By: NAS Checked By: BWM
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SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface		0 25 50 75 100 ppm		
		Topsoil	~ ~ ~ ~ ~	0.0		
		Brown, moist, mostly silty sand, medium dense, no odors	~ ~ ~ ~ ~	0.0	Sampled (0-0.5 ft)	
		Fill	[Cross-hatched symbol]	0.0		
		Black/brown/grey, moist, mostly fill (concrete, brick, limestone, cinders), loose when disturbed, no odors	[Cross-hatched symbol]	0.0		
			[Cross-hatched symbol]	0.0		
			[Cross-hatched symbol]	0.0		
5.0			[Cross-hatched symbol]	0.0		
	-6.0 6.0	Sandy Lean Clay	[Diagonal lines symbol]	0.0		
		Reddish brown, moist, mostly lean clay, some fine sand, stiff, no odors	[Diagonal lines symbol]	0.0		
	-7.0 7.0	End of Test Pit		0.0		
10.0						

Excavated By: TurnKey Environmental Restoration Length: 10 Excavator Type: Kubota Mini Excavator KX040 Width: 3 Excavation Date(s): 4/17/2023 Depth: 7 Comments:	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
--	--

TEST PIT EXCAVATION LOG



TurnKey Environmental Restoration, LLC
 2558 Hamburg Turnpike, Suite 300
 Buffalo, NY 14218
 (716) 856-0635

Project No: T0562-023-001	Test Pit I.D.: BMT-15
Project: Jefferson and Best Site	Logged By: NAS
Client: CB Emmanuel	Checked By: BWM
Site Location: Buffalo, NY	

SUBSURFACE PROFILE				PID VOCs	Lab Sample	Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol			
0.0	0.0 0.0	Ground Surface		0 25 50 75 100 ppm		
		<p>Fill Black, moist, mostly fill (black fines, cinders, subangular gravel), some fine sand, loose when disturbed, no odors</p>	[Cross-hatched symbol]	0.0	Sampled (0-0.5 ft)	
	-0.8 0.8	<p>Sandy Lean Clay Reddish brown, moist, mostly lean clay, some fine sand, stiff, no odors</p>	[Diagonal lines symbol]	0.0		
5.0				0.0		
8.0	-8.0 8.0	End of Test Pit		0.0		
10.0				0.0		

Excavated By: TurnKey Environmental Restoration Excavator Type: Kubota Mini Excavator KX040 Excavation Date(s): 4/17/2023 Comments:	Length: 10 Width: 3 Depth: 8	Depth to Water: N/A Visual Impacts: None Olfactory Observations: None
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APPENDIX B

PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: View of BMTP-1.

Photo 2: View of BMTP-2.

Photo 3: View of BMTP-3.

Photo 4: View of BMTP-5.

Jefferson and Best Site

Photo Date: April 17, 2023



SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: View of BMTP-6.

Photo 6: View of BMTP-7.

Photo 7: View of BMTP-8.

Photo 8: View of BMTP-9.

Jefferson and Best Site

Photo Date: April 17, 2023



SITE PHOTOGRAPHS

Photo 9:



Photo 10:



Photo 11:



Photo 12:



Photo 9: View of BMTP-10.

Photo 10: View of BMTP-11.

Photo 11: View of BMTP-12.

Photo 12: View of BMTP-13.

Jefferson and Best Site

Photo Date: April 17, 2023



APPENDIX C

GEOPHYSICAL REPORT

April 24, 2023

Bryan Mayback
Project Manager
TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218

Transmitted via email to: Bryan Mayback < bmayback@bm-tk.com >

Dear Mr. Mayback:

Re: Geophysical Survey Results, Jefferson and Best, Buffalo, NY

1.0 INTRODUCTION

This letter report presents the results of the geophysical investigation performed for Turnkey Environmental Restoration, LLC (Turnkey) in support of their environmental investigation of a property located at the south east corner of Jefferson Ave and Best St in Buffalo, NY (the Site). The purpose of the investigation was to explore for anomalies indicative of underground storage tanks (UST's).

The geophysical investigation was designed to geophysically characterize the subsurface and focus a follow-up intrusive investigation, if warranted. The information provided herein is intended to assist Turnkey with their assessment of potential environmental concerns at the Site. Maddan Geophysics LLC (MADDAN) performed data acquisition between April 12 -16, 2023.

2.0 METHODOLOGY

A reference grid was installed at the Site to facilitate data acquisition along parallel survey lines spaced 3 feet apart. The grid was marked with orange and white spray paint and pin flags with select coordinates labeled to aid in the reoccupation of stations if necessary. Grid coordinate 200N,200E was established at the southeast corner of the main site building with grid North taken as the direction perpendicular to the north wall of that building

Time Domain Electromagnetic Survey Methodology (EM61)

The Geonics EM61 was used to map the distribution of buried metals at the Site. The EM61 unit is a high sensitivity, high resolution time domain electromagnetic (TDEM) metal detector that can detect both ferrous and nonferrous metallic objects. It has an approximate investigation depth of 10 feet. The processing console is contained in a backpack worn by the operator which

is interfaced to a digital data logger. The transmitter and two receiver coils are located on a two-wheeled cart that is pulled by the operator.

The device's transmitter coil generates a pulsed primary EM field at a rate of 150 pulses per second, inducing eddy currents into the subsurface. The decay rates of these eddy currents are measured by two, 3.28 foot by 1.64 foot (1 meter by ½ meter) rectangular receiver coils. By taking the measurements at a relatively long time frame after termination of the primary pulse, the response is practically independent of the survey area's terrain conductivity.

Specifically, the decay rates of the eddy currents are much

longer for metals than for normal soils allowing the discrimination of the two.



EM61 in use (Photo not from this site)

Data are collected from the EM61's two receiver coils. One of the receiver coils is located coincident to the transmitter coil. The other receiver coil is located 1.31 feet (0.4 meters) above the transmitter coil. Data from the top receiver coil are stored on Channel 1 of a digital data logger. Data from the bottom receiver coil are stored on Channel 2 of the data logger. Channel 1 and Channel 2 data are simultaneously recorded at each station location. The instrument responses are recorded in units of millivolts (mV). Data were recorded digitally by a data logger at a rate of approximately 2 measurements per foot along the survey lines which were spaced 3 feet apart.

3.0 RESULTS

The EM61 data for the Site are shown in Figure 1. Areas suspected to be free of buried metals are shown as color shades of blue. All areas exhibiting a response greater than background (0 to ~30 mVolts) likely contain buried metals.

Bryan Mayback
TurnKey Environmental Restoration, LLC
April 24, 2023
Page 3

Ten anomalies or anomalous areas, labelled A through J on Figure 1, are called out due to their relative size (response amplitude and aerial extent). These anomalies may represent a UST or remnants of a UST and associated appurtenances, items of potential environmental significance, or miscellaneous buried metals. The center locations of Anomalies A through I were staked in the field on April 17 to assist with subsequent intrusive investigation. Anomaly J is a large anomalous area encompassing the southern portion of the Site. A review of historic aerial photos indicates this area previously was covered with buildings. Anomaly J likely relates to remnants of building foundations.

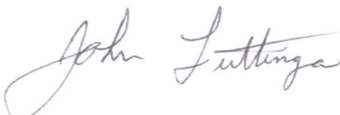
Any of the additional above background responses may be significant from an environmental perspective and these geophysical data should be viewed with recognition of the limitations of the technology employed.

4.0 LIMITATIONS

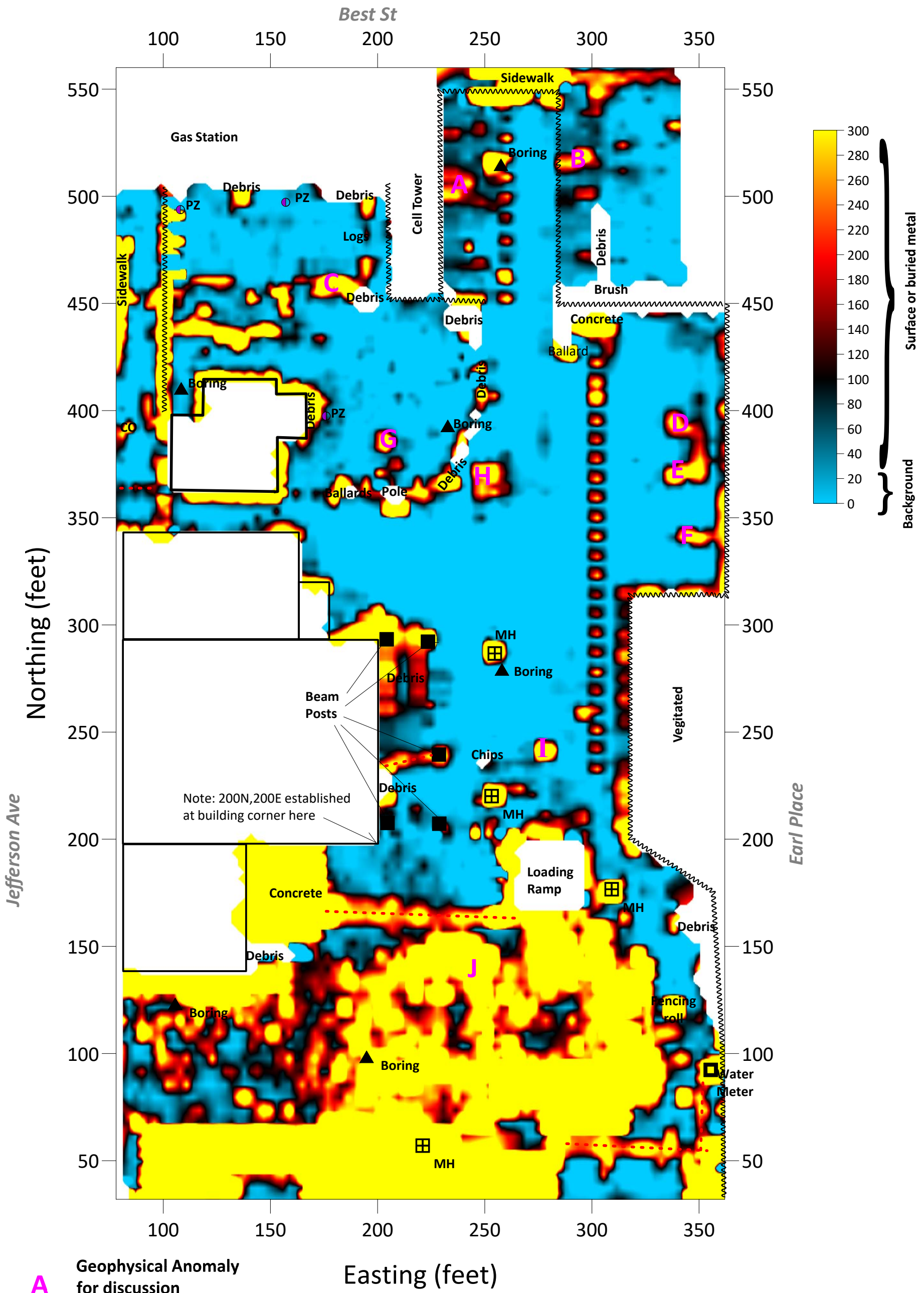
The geophysical methods used during this survey are established, indirect techniques for non-destructive subsurface reconnaissance exploration. As these instruments utilize indirect methods, they are subject to inherent limitations and ambiguities. Metallic surface features (electrical wires, scrap metal, etc.) preclude reliable non-invasive data/results beneath, and in the immediate vicinity of, the surface features. Targets such as buried drums, buried tanks, conduits, etc. are detectable only if they produce recognizable anomalies or patterns against the background geophysical data collected. As with any remote sensing technique, the anomalies identified during a geophysical survey should be further investigated by other techniques such as historical aerial photography, test pit excavation and/or test boring, if warranted.

Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely yours,
Maddan Geophysics, LLC

A handwritten signature in cursive script that reads "John Luttinger".

John Luttinger
President



A Geophysical Anomaly for discussion

Interpreted linear anomaly

The geophysical methods used during this survey are established, indirect techniques for non-destructive subsurface reconnaissance exploration. As these instruments utilize indirect methods, they are subject to inherent limitations and ambiguities. Metallic surface features preclude reliable non-invasive data/results beneath, and in the immediate vicinity of, the surface features. Targets such as buried drums, buried tanks, conduits, etc. are detectable only if they produce recognizable anomalies or patterns against the background geophysical data collected. As with any remote sensing technique, the anomalies identified during a geophysical survey should be further investigated by other techniques such as historical aerial photography, test pit excavation and/or test boring, if warranted.

Figure 1
 Geophysical Survey Results
 Color Contours of EM61 Data
 (mVolts)
 Jefferson and Best Street
 Buffalo, NY
 Turnkey Environmental Restoration, LLC
 Maddan Geophysics

APPENDIX D

LABORATORY ANALYTICAL DATA SUMMARY PACKAGE



ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

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JOB DESCRIPTION

Jefferson & Best site

JOB NUMBER

480-207977-1

Eurofins Buffalo

Job Notes

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

Authorization



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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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.

Glossary

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

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Job ID: 480-207977-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-207977-1

Comments

No additional comments.

Receipt

The samples were received on 4/19/2023 9:50 AM. 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 4.0° C.

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BMTP-1 1-3FT (480-207977-1), BMTP-3 0-1.5FT (480-207977-2), BMTP-5 4-6FT (480-207977-3), BMTP-6 1-2FT (480-207977-4), BMTP-10 0-6IN (480-207977-6), BMTP-11 0-6IN (480-207977-7), BMTP-12 1-3FT (480-207977-8), BMTP-13 1-3FT (480-207977-9), BMTP-14 0-6IN (480-207977-10), BMTP-15 0-6IN (480-207977-11) and BMTP-13 3-5FT (480-207977-16). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: BMTP-1 1-3FT (480-207977-1), BMTP-11 0-6IN (480-207977-7) and BMTP-12 1-3FT (480-207977-8). 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: Three surrogates are used for this analysis. The laboratory's SOP allows one 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: BMTP-3 0-1.5FT (480-207977-2), BMTP-6 1-2FT (480-207977-4), BMTP-13 1-3FT (480-207977-9), BMTP-15 0-6IN (480-207977-11) and BMTP-13 3-5FT (480-207977-16). These results have been reported and qualified.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: BMTP-1 1-3FT (480-207977-1) and BMTP-12 1-3FT (480-207977-8). Elevated reporting limits (RLs) are provided.

Method 8270D: The following samples were diluted due to the abundance of target analytes: BMTP-1 1-3FT (480-207977-1) and BMTP-12 1-3FT (480-207977-8). 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 continuing calibration verification (CCV) associated with batch 480-666432 recovered above the upper control limit for Silver. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Organic Prep

Method 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: BMTP-1 1-3FT (480-207977-1), BMTP-11 0-6IN (480-207977-7) and BMTP-12 1-3FT (480-207977-8). The reporting limits (RLs) are elevated proportionately.

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-1 1-3FT

Lab Sample ID: 480-207977-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	120000		18000	2600	ug/Kg	10	✳	8270D	Total/NA
Acenaphthylene	19000		18000	2300	ug/Kg	10	✳	8270D	Total/NA
Anthracene	260000		18000	4400	ug/Kg	10	✳	8270D	Total/NA
Benzo[a]pyrene	540000		18000	2600	ug/Kg	10	✳	8270D	Total/NA
Benzo[g,h,i]perylene	340000		18000	1900	ug/Kg	10	✳	8270D	Total/NA
Benzo[k]fluoranthene	320000		18000	2300	ug/Kg	10	✳	8270D	Total/NA
Dibenz(a,h)anthracene	100000		18000	3200	ug/Kg	10	✳	8270D	Total/NA
Fluorene	150000		18000	2100	ug/Kg	10	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	330000		18000	2200	ug/Kg	10	✳	8270D	Total/NA
Naphthalene	94000		18000	2300	ug/Kg	10	✳	8270D	Total/NA
Benzo[a]anthracene - DL	550000		90000	9000	ug/Kg	50	✳	8270D	Total/NA
Benzo[b]fluoranthene - DL	680000		90000	14000	ug/Kg	50	✳	8270D	Total/NA
Chrysene - DL	550000		90000	20000	ug/Kg	50	✳	8270D	Total/NA
Fluoranthene - DL	1500000		90000	9500	ug/Kg	50	✳	8270D	Total/NA
Phenanthrene - DL	1300000		90000	13000	ug/Kg	50	✳	8270D	Total/NA
Pyrene - DL	1100000		90000	11000	ug/Kg	50	✳	8270D	Total/NA
Arsenic	5.9	J	212	0.42	mg/Kg	1	✳	6010C	Total/NA
Barium	74.6		52.9	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	3.1	J	21.2	0.032	mg/Kg	1	✳	6010C	Total/NA
Chromium	101		52.9	0.21	mg/Kg	1	✳	6010C	Total/NA
Lead	795		106	0.25	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.13	F1 F2	0.021	0.0048	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: BMTP-3 0-1.5FT

Lab Sample ID: 480-207977-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	690	J	2000	500	ug/Kg	10	✳	8270D	Total/NA
Benzo[a]anthracene	1500	J	2000	200	ug/Kg	10	✳	8270D	Total/NA
Benzo[a]pyrene	1400	J	2000	300	ug/Kg	10	✳	8270D	Total/NA
Benzo[b]fluoranthene	1700	J	2000	320	ug/Kg	10	✳	8270D	Total/NA
Benzo[g,h,i]perylene	780	J	2000	210	ug/Kg	10	✳	8270D	Total/NA
Benzo[k]fluoranthene	890	J	2000	260	ug/Kg	10	✳	8270D	Total/NA
Chrysene	1500	J	2000	450	ug/Kg	10	✳	8270D	Total/NA
Fluoranthene	3500		2000	210	ug/Kg	10	✳	8270D	Total/NA
Fluorene	300	J	2000	240	ug/Kg	10	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	760	J	2000	250	ug/Kg	10	✳	8270D	Total/NA
Phenanthrene	2600		2000	300	ug/Kg	10	✳	8270D	Total/NA
Pyrene	2400		2000	240	ug/Kg	10	✳	8270D	Total/NA
Arsenic	8.3	J	237	0.47	mg/Kg	1	✳	6010C	Total/NA
Barium	415		59.2	0.13	mg/Kg	1	✳	6010C	Total/NA
Cadmium	3.0	J	23.7	0.036	mg/Kg	1	✳	6010C	Total/NA
Chromium	171		59.2	0.24	mg/Kg	1	✳	6010C	Total/NA
Lead	566		118	0.28	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.067		0.022	0.0051	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: BMTP-5 4-6FT

Lab Sample ID: 480-207977-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	290	J	1000	150	ug/Kg	5	✳	8270D	Total/NA
Acenaphthylene	130	J	1000	130	ug/Kg	5	✳	8270D	Total/NA
Anthracene	730	J	1000	250	ug/Kg	5	✳	8270D	Total/NA
Benzo[a]anthracene	2100		1000	100	ug/Kg	5	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-5 4-6FT (Continued)

Lab Sample ID: 480-207977-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	2200		1000	150	ug/Kg	5	✳	8270D	Total/NA
Benzo[b]fluoranthene	2700		1000	160	ug/Kg	5	✳	8270D	Total/NA
Benzo[g,h,i]perylene	1400		1000	110	ug/Kg	5	✳	8270D	Total/NA
Benzo[k]fluoranthene	1100		1000	130	ug/Kg	5	✳	8270D	Total/NA
Chrysene	2300		1000	220	ug/Kg	5	✳	8270D	Total/NA
Dibenz(a,h)anthracene	400	J	1000	180	ug/Kg	5	✳	8270D	Total/NA
Fluoranthene	4600		1000	110	ug/Kg	5	✳	8270D	Total/NA
Fluorene	420	J	1000	120	ug/Kg	5	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1300		1000	120	ug/Kg	5	✳	8270D	Total/NA
Naphthalene	390	J	1000	130	ug/Kg	5	✳	8270D	Total/NA
Phenanthrene	3600		1000	150	ug/Kg	5	✳	8270D	Total/NA
Pyrene	3600		1000	120	ug/Kg	5	✳	8270D	Total/NA
Arsenic	7.4	J	230	0.46	mg/Kg	1	✳	6010C	Total/NA
Barium	122		57.6	0.13	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.51	J	23.0	0.035	mg/Kg	1	✳	6010C	Total/NA
Chromium	21.3	J	57.6	0.23	mg/Kg	1	✳	6010C	Total/NA
Lead	256		115	0.28	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.49		0.022	0.0052	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: BMTP-6 1-2FT

Lab Sample ID: 480-207977-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	130	J	1100	110	ug/Kg	5	✳	8270D	Total/NA
Fluoranthene	150	J	1100	120	ug/Kg	5	✳	8270D	Total/NA
Pyrene	160	J	1100	130	ug/Kg	5	✳	8270D	Total/NA
Arsenic	7.5	J	268	0.54	mg/Kg	1	✳	6010C	Total/NA
Barium	124		66.9	0.15	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.47	J	26.8	0.040	mg/Kg	1	✳	6010C	Total/NA
Chromium	29.2	J	66.9	0.27	mg/Kg	1	✳	6010C	Total/NA
Lead	747		134	0.32	mg/Kg	1	✳	6010C	Total/NA
Selenium	0.62	J	536	0.54	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.28		0.025	0.0058	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: BMTP-7 1-2FT

Lab Sample ID: 480-207977-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	180	J	200	29	ug/Kg	1	✳	8270D	Total/NA
Anthracene	320		200	48	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	610		200	20	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	590		200	29	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	640		200	31	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	320		200	21	ug/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	270		200	25	ug/Kg	1	✳	8270D	Total/NA
Chrysene	600		200	44	ug/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	100	J	200	35	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	1200		200	21	ug/Kg	1	✳	8270D	Total/NA
Fluorene	120	J	200	23	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	290		200	24	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	42	J	200	25	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	1200		200	29	ug/Kg	1	✳	8270D	Total/NA
Pyrene	1200		200	23	ug/Kg	1	✳	8270D	Total/NA
Arsenic	5.9	J	244	0.49	mg/Kg	1	✳	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-7 1-2FT (Continued)

Lab Sample ID: 480-207977-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	71.9		60.9	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	24.4	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	18.0	J	60.9	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	90.5	J	122	0.29	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.079		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BMTP-10 0-6IN

Lab Sample ID: 480-207977-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	460	J	960	140	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1500		960	240	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	3300		960	96	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	3100		960	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	3600		960	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1800		960	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1500		960	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	3500		960	210	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	560	J	960	170	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	7400		960	100	ug/Kg	5	☼	8270D	Total/NA
Fluorene	770	J	960	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1700		960	120	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	490	J	960	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	5800		960	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	5800		960	110	ug/Kg	5	☼	8270D	Total/NA
Arsenic	4.3	J	228	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	66.7		57.0	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.25	J	22.8	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.8	J	57.0	0.23	mg/Kg	1	☼	6010C	Total/NA
Lead	44.0	J	114	0.27	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.044		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BMTP-11 0-6IN

Lab Sample ID: 480-207977-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	15000	J	35000	5100	ug/Kg	10	☼	8270D	Total/NA
Anthracene	24000	J	35000	8600	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	62000		35000	3500	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	61000		35000	5100	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	79000		35000	5500	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	33000	J	35000	3700	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	31000	J	35000	4500	ug/Kg	10	☼	8270D	Total/NA
Chrysene	70000		35000	7800	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	11000	J	35000	6100	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	170000		35000	3700	ug/Kg	10	☼	8270D	Total/NA
Fluorene	13000	J	35000	4100	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	34000	J	35000	4300	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	130000		35000	5100	ug/Kg	10	☼	8270D	Total/NA
Pyrene	110000		35000	4100	ug/Kg	10	☼	8270D	Total/NA
Arsenic	4.9	J	434	0.87	mg/Kg	1	☼	6010C	Total/NA
Barium	207		108	0.24	mg/Kg	1	☼	6010C	Total/NA
Cadmium	2.5	J	43.4	0.065	mg/Kg	1	☼	6010C	Total/NA
Chromium	98.6	J	108	0.43	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-11 0-6IN (Continued)

Lab Sample ID: 480-207977-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7120		217	0.52	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.086		0.042	0.0096	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BMTP-12 1-3FT

Lab Sample ID: 480-207977-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	41000	J	42000	6100	ug/Kg	20	☼	8270D	Total/NA
Acenaphthylene	31000	J	42000	5400	ug/Kg	20	☼	8270D	Total/NA
Anthracene	160000		42000	10000	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	530000		42000	4200	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	560000		42000	6100	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	640000		42000	6600	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	320000		42000	4400	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	270000		42000	5400	ug/Kg	20	☼	8270D	Total/NA
Chrysene	510000		42000	9300	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	84000		42000	7300	ug/Kg	20	☼	8270D	Total/NA
Fluorene	53000		42000	4900	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	310000		42000	5100	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	12000	J	42000	5400	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	640000		42000	6100	ug/Kg	20	☼	8270D	Total/NA
Pyrene	1000000		42000	4900	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene - DL	1300000		100000	11000	ug/Kg	50	☼	8270D	Total/NA
Arsenic	5.0	J	250	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	83.6		62.6	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.67	J	25.0	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	20.4	J	62.6	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	62.2	J	125	0.30	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.048		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BMTP-13 1-3FT

Lab Sample ID: 480-207977-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	800	J	2000	260	ug/Kg	10	☼	8270D	Total/NA
Anthracene	930	J	2000	500	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	3200		2000	200	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	3400		2000	300	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	3900		2000	320	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2100		2000	210	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	1500	J	2000	260	ug/Kg	10	☼	8270D	Total/NA
Chrysene	2900		2000	450	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	570	J	2000	360	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	7400		2000	210	ug/Kg	10	☼	8270D	Total/NA
Fluorene	330	J	2000	240	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1800	J	2000	250	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	330	J	2000	260	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	2900		2000	300	ug/Kg	10	☼	8270D	Total/NA
Pyrene	6200		2000	240	ug/Kg	10	☼	8270D	Total/NA
Arsenic	11.5	J	245	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	193		61.2	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.5	J	24.5	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	24.7	J	61.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	967		122	0.29	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-13 1-3FT (Continued)

Lab Sample ID: 480-207977-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	1.1	J	489	0.49	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.82		0.023	0.0052	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: BMTP-14 0-6IN

Lab Sample ID: 480-207977-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	240	J	1000	150	ug/Kg	5	✳	8270D	Total/NA
Anthracene	450	J	1000	250	ug/Kg	5	✳	8270D	Total/NA
Benzo[a]anthracene	850	J	1000	100	ug/Kg	5	✳	8270D	Total/NA
Benzo[a]pyrene	860	J	1000	150	ug/Kg	5	✳	8270D	Total/NA
Benzo[b]fluoranthene	1000		1000	160	ug/Kg	5	✳	8270D	Total/NA
Benzo[g,h,i]perylene	490	J	1000	110	ug/Kg	5	✳	8270D	Total/NA
Benzo[k]fluoranthene	400	J	1000	130	ug/Kg	5	✳	8270D	Total/NA
Chrysene	910	J	1000	230	ug/Kg	5	✳	8270D	Total/NA
Fluoranthene	2200		1000	110	ug/Kg	5	✳	8270D	Total/NA
Fluorene	210	J	1000	120	ug/Kg	5	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	470	J	1000	130	ug/Kg	5	✳	8270D	Total/NA
Phenanthrene	1900		1000	150	ug/Kg	5	✳	8270D	Total/NA
Pyrene	1700		1000	120	ug/Kg	5	✳	8270D	Total/NA
Arsenic	18.1	J	257	0.51	mg/Kg	1	✳	6010C	Total/NA
Barium	472		64.2	0.14	mg/Kg	1	✳	6010C	Total/NA
Cadmium	2.5	J	25.7	0.039	mg/Kg	1	✳	6010C	Total/NA
Chromium	32.4	J	64.2	0.26	mg/Kg	1	✳	6010C	Total/NA
Lead	3060		128	0.31	mg/Kg	1	✳	6010C	Total/NA
Silver	0.43	J	77.1	0.26	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.90		0.022	0.0052	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: BMTP-15 0-6IN

Lab Sample ID: 480-207977-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	630	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	1800	J	1900	280	ug/Kg	10	✳	8270D	Total/NA
Benzo[b]fluoranthene	2200		1900	300	ug/Kg	10	✳	8270D	Total/NA
Benzo[g,h,i]perylene	910	J	1900	200	ug/Kg	10	✳	8270D	Total/NA
Benzo[k]fluoranthene	850	J	1900	250	ug/Kg	10	✳	8270D	Total/NA
Chrysene	1900		1900	430	ug/Kg	10	✳	8270D	Total/NA
Fluoranthene	3700		1900	200	ug/Kg	10	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	890	J	1900	240	ug/Kg	10	✳	8270D	Total/NA
Phenanthrene	2200		1900	280	ug/Kg	10	✳	8270D	Total/NA
Pyrene	2800		1900	230	ug/Kg	10	✳	8270D	Total/NA
Arsenic	4.3	J	221	0.44	mg/Kg	1	✳	6010C	Total/NA
Barium	43.0	J F1 F2	55.3	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	1.3	J	22.1	0.033	mg/Kg	1	✳	6010C	Total/NA
Chromium	87.8	F1	55.3	0.22	mg/Kg	1	✳	6010C	Total/NA
Lead	166	F1	111	0.27	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.064		0.021	0.0049	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: BMTP-13 3-5FT

Lab Sample ID: 480-207977-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	280	J	1000	100	ug/Kg	5	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-13 3-5FT (Continued)

Lab Sample ID: 480-207977-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	320	J	1000	150	ug/Kg	5	✳	8270D	Total/NA
Benzo[b]fluoranthene	340	J	1000	160	ug/Kg	5	✳	8270D	Total/NA
Benzo[g,h,i]perylene	220	J	1000	110	ug/Kg	5	✳	8270D	Total/NA
Benzo[k]fluoranthene	210	J	1000	130	ug/Kg	5	✳	8270D	Total/NA
Chrysene	330	J	1000	230	ug/Kg	5	✳	8270D	Total/NA
Fluoranthene	620	J	1000	110	ug/Kg	5	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	200	J	1000	130	ug/Kg	5	✳	8270D	Total/NA
Phenanthrene	360	J	1000	150	ug/Kg	5	✳	8270D	Total/NA
Pyrene	480	J	1000	120	ug/Kg	5	✳	8270D	Total/NA
Arsenic	8.7	J	248	0.50	mg/Kg	1	✳	6010C	Total/NA
Barium	146		62.0	0.14	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.54	J	24.8	0.037	mg/Kg	1	✳	6010C	Total/NA
Chromium	25.5	J	62.0	0.25	mg/Kg	1	✳	6010C	Total/NA
Lead	19.3	J	124	0.30	mg/Kg	1	✳	6010C	Total/NA
Selenium	1.8	J	496	0.50	mg/Kg	1	✳	6010C	Total/NA
Mercury	1.1		0.023	0.0054	mg/Kg	1	✳	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo



Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-1 1-3FT

Lab Sample ID: 480-207977-1

Date Collected: 04/17/23 09:30

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 94.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120000		18000	2600	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10
Acenaphthylene	19000		18000	2300	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10
Anthracene	260000		18000	4400	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10
Benzo[a]pyrene	540000		18000	2600	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10
Benzo[g,h,i]perylene	340000		18000	1900	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10
Benzo[k]fluoranthene	320000		18000	2300	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10
Dibenz(a,h)anthracene	100000		18000	3200	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10
Fluorene	150000		18000	2100	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10
Indeno[1,2,3-cd]pyrene	330000		18000	2200	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10
Naphthalene	94000		18000	2300	ug/Kg	✱	04/20/23 16:01	04/21/23 12:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		60 - 120	04/20/23 16:01	04/21/23 12:52	10
Nitrobenzene-d5 (Surr)	81		53 - 120	04/20/23 16:01	04/21/23 12:52	10
p-Terphenyl-d14 (Surr)	144	S1+	79 - 130	04/20/23 16:01	04/21/23 12:52	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	550000		90000	9000	ug/Kg	✱	04/20/23 16:01	04/24/23 13:07	50
Benzo[b]fluoranthene	680000		90000	14000	ug/Kg	✱	04/20/23 16:01	04/24/23 13:07	50
Chrysene	550000		90000	20000	ug/Kg	✱	04/20/23 16:01	04/24/23 13:07	50
Fluoranthene	1500000		90000	9500	ug/Kg	✱	04/20/23 16:01	04/24/23 13:07	50
Phenanthrene	1300000		90000	13000	ug/Kg	✱	04/20/23 16:01	04/24/23 13:07	50
Pyrene	1100000		90000	11000	ug/Kg	✱	04/20/23 16:01	04/24/23 13:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		60 - 120	04/20/23 16:01	04/24/23 13:07	50
Nitrobenzene-d5 (Surr)	0	S1-	53 - 120	04/20/23 16:01	04/24/23 13:07	50
p-Terphenyl-d14 (Surr)	0	S1-	79 - 130	04/20/23 16:01	04/24/23 13:07	50

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9	J	212	0.42	mg/Kg	✱	04/20/23 14:31	04/21/23 14:19	1
Barium	74.6		52.9	0.12	mg/Kg	✱	04/20/23 14:31	04/21/23 14:19	1
Cadmium	3.1	J	21.2	0.032	mg/Kg	✱	04/20/23 14:31	04/21/23 14:19	1
Chromium	101		52.9	0.21	mg/Kg	✱	04/20/23 14:31	04/21/23 14:19	1
Lead	795		106	0.25	mg/Kg	✱	04/20/23 14:31	04/21/23 14:19	1
Selenium	ND		424	0.42	mg/Kg	✱	04/20/23 14:31	04/21/23 14:19	1
Silver	ND		63.5	0.21	mg/Kg	✱	04/20/23 14:31	04/21/23 14:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13	F1 F2	0.021	0.0048	mg/Kg	✱	04/24/23 11:35	04/24/23 13:30	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-3 0-1.5FT

Lab Sample ID: 480-207977-2

Date Collected: 04/17/23 10:45

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2000	300	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Acenaphthylene	ND		2000	260	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Anthracene	690	J	2000	500	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Benzo[a]anthracene	1500	J	2000	200	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Benzo[a]pyrene	1400	J	2000	300	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Benzo[b]fluoranthene	1700	J	2000	320	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Benzo[g,h,i]perylene	780	J	2000	210	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Benzo[k]fluoranthene	890	J	2000	260	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Chrysene	1500	J	2000	450	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Dibenz(a,h)anthracene	ND		2000	360	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Fluoranthene	3500		2000	210	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Fluorene	300	J	2000	240	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Indeno[1,2,3-cd]pyrene	760	J	2000	250	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Naphthalene	ND		2000	260	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Phenanthrene	2600		2000	300	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Pyrene	2400		2000	240	ug/Kg	✳	04/20/23 16:01	04/21/23 13:16	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		60 - 120				04/20/23 16:01	04/21/23 13:16	10
Nitrobenzene-d5 (Surr)	75		53 - 120				04/20/23 16:01	04/21/23 13:16	10
p-Terphenyl-d14 (Surr)	76	S1-	79 - 130				04/20/23 16:01	04/21/23 13:16	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.3	J	237	0.47	mg/Kg	✳	04/20/23 14:31	04/21/23 14:23	1
Barium	415		59.2	0.13	mg/Kg	✳	04/20/23 14:31	04/21/23 14:23	1
Cadmium	3.0	J	23.7	0.036	mg/Kg	✳	04/20/23 14:31	04/21/23 14:23	1
Chromium	171		59.2	0.24	mg/Kg	✳	04/20/23 14:31	04/21/23 14:23	1
Lead	566		118	0.28	mg/Kg	✳	04/20/23 14:31	04/21/23 14:23	1
Selenium	ND		474	0.47	mg/Kg	✳	04/20/23 14:31	04/21/23 14:23	1
Silver	ND		71.0	0.24	mg/Kg	✳	04/20/23 14:31	04/21/23 14:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.022	0.0051	mg/Kg	✳	04/24/23 11:35	04/24/23 13:35	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-5 4-6FT

Lab Sample ID: 480-207977-3

Date Collected: 04/17/23 11:15

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	290	J	1000	150	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Acenaphthylene	130	J	1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Anthracene	730	J	1000	250	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Benzo[a]anthracene	2100		1000	100	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Benzo[a]pyrene	2200		1000	150	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Benzo[b]fluoranthene	2700		1000	160	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Benzo[g,h,i]perylene	1400		1000	110	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Benzo[k]fluoranthene	1100		1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Chrysene	2300		1000	220	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Dibenz(a,h)anthracene	400	J	1000	180	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Fluoranthene	4600		1000	110	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Fluorene	420	J	1000	120	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Indeno[1,2,3-cd]pyrene	1300		1000	120	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Naphthalene	390	J	1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Phenanthrene	3600		1000	150	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5
Pyrene	3600		1000	120	ug/Kg	☼	04/20/23 16:01	04/21/23 13:40	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		60 - 120	04/20/23 16:01	04/21/23 13:40	5
Nitrobenzene-d5 (Surr)	73		53 - 120	04/20/23 16:01	04/21/23 13:40	5
p-Terphenyl-d14 (Surr)	88		79 - 130	04/20/23 16:01	04/21/23 13:40	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4	J	230	0.46	mg/Kg	☼	04/20/23 14:31	04/21/23 14:27	1
Barium	122		57.6	0.13	mg/Kg	☼	04/20/23 14:31	04/21/23 14:27	1
Cadmium	0.51	J	23.0	0.035	mg/Kg	☼	04/20/23 14:31	04/21/23 14:27	1
Chromium	21.3	J	57.6	0.23	mg/Kg	☼	04/20/23 14:31	04/21/23 14:27	1
Lead	256		115	0.28	mg/Kg	☼	04/20/23 14:31	04/21/23 14:27	1
Selenium	ND		460	0.46	mg/Kg	☼	04/20/23 14:31	04/21/23 14:27	1
Silver	ND		69.1	0.23	mg/Kg	☼	04/20/23 14:31	04/21/23 14:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.022	0.0052	mg/Kg	☼	04/24/23 11:35	04/24/23 13:37	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-6 1-2FT

Lab Sample ID: 480-207977-4

Date Collected: 04/17/23 11:45

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1100	160	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Acenaphthylene	ND		1100	140	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Anthracene	ND		1100	270	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Benzo[a]anthracene	130	J	1100	110	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Benzo[a]pyrene	ND		1100	160	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Benzo[b]fluoranthene	ND		1100	180	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Benzo[g,h,i]perylene	ND		1100	120	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Benzo[k]fluoranthene	ND		1100	140	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Chrysene	ND		1100	250	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Dibenz(a,h)anthracene	ND		1100	200	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Fluoranthene	150	J	1100	120	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Fluorene	ND		1100	130	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Indeno[1,2,3-cd]pyrene	ND		1100	140	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Naphthalene	ND		1100	140	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Phenanthrene	ND		1100	160	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Pyrene	160	J	1100	130	ug/Kg	✱	04/20/23 16:01	04/21/23 14:04	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		60 - 120				04/20/23 16:01	04/21/23 14:04	5
Nitrobenzene-d5 (Surr)	66		53 - 120				04/20/23 16:01	04/21/23 14:04	5
p-Terphenyl-d14 (Surr)	70	S1-	79 - 130				04/20/23 16:01	04/21/23 14:04	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5	J	268	0.54	mg/Kg	✱	04/20/23 14:31	04/21/23 14:31	1
Barium	124		66.9	0.15	mg/Kg	✱	04/20/23 14:31	04/21/23 14:31	1
Cadmium	0.47	J	26.8	0.040	mg/Kg	✱	04/20/23 14:31	04/21/23 14:31	1
Chromium	29.2	J	66.9	0.27	mg/Kg	✱	04/20/23 14:31	04/21/23 14:31	1
Lead	747		134	0.32	mg/Kg	✱	04/20/23 14:31	04/21/23 14:31	1
Selenium	0.62	J	536	0.54	mg/Kg	✱	04/20/23 14:31	04/21/23 14:31	1
Silver	ND		80.3	0.27	mg/Kg	✱	04/20/23 14:31	04/21/23 14:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.025	0.0058	mg/Kg	✱	04/24/23 11:35	04/24/23 13:38	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-7 1-2FT

Lab Sample ID: 480-207977-5

Date Collected: 04/17/23 12:15

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	J	200	29	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Acenaphthylene	ND		200	25	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Anthracene	320		200	48	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Benzo[a]anthracene	610		200	20	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Benzo[a]pyrene	590		200	29	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Benzo[b]fluoranthene	640		200	31	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Benzo[g,h,i]perylene	320		200	21	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Benzo[k]fluoranthene	270		200	25	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Chrysene	600		200	44	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Dibenz(a,h)anthracene	100	J	200	35	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Fluoranthene	1200		200	21	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Fluorene	120	J	200	23	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Indeno[1,2,3-cd]pyrene	290		200	24	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Naphthalene	42	J	200	25	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Phenanthrene	1200		200	29	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Pyrene	1200		200	23	ug/Kg	☼	04/20/23 16:01	04/21/23 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		60 - 120				04/20/23 16:01	04/21/23 14:29	1
Nitrobenzene-d5 (Surr)	67		53 - 120				04/20/23 16:01	04/21/23 14:29	1
p-Terphenyl-d14 (Surr)	90		79 - 130				04/20/23 16:01	04/21/23 14:29	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9	J	244	0.49	mg/Kg	☼	04/20/23 14:31	04/21/23 14:35	1
Barium	71.9		60.9	0.13	mg/Kg	☼	04/20/23 14:31	04/21/23 14:35	1
Cadmium	0.20	J	24.4	0.037	mg/Kg	☼	04/20/23 14:31	04/21/23 14:35	1
Chromium	18.0	J	60.9	0.24	mg/Kg	☼	04/20/23 14:31	04/21/23 14:35	1
Lead	90.5	J	122	0.29	mg/Kg	☼	04/20/23 14:31	04/21/23 14:35	1
Selenium	ND		487	0.49	mg/Kg	☼	04/20/23 14:31	04/21/23 14:35	1
Silver	ND		73.1	0.24	mg/Kg	☼	04/20/23 14:31	04/21/23 14:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.079		0.023	0.0053	mg/Kg	☼	04/24/23 11:35	04/24/23 13:39	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-10 0-6IN

Lab Sample ID: 480-207977-6

Date Collected: 04/17/23 12:30

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	J	960	140	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Acenaphthylene	ND		960	120	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Anthracene	1500		960	240	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Benzo[a]anthracene	3300		960	96	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Benzo[a]pyrene	3100		960	140	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Benzo[b]fluoranthene	3600		960	150	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Benzo[g,h,i]perylene	1800		960	100	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Benzo[k]fluoranthene	1500		960	120	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Chrysene	3500		960	210	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Dibenz(a,h)anthracene	560	J	960	170	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Fluoranthene	7400		960	100	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Fluorene	770	J	960	110	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Indeno[1,2,3-cd]pyrene	1700		960	120	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Naphthalene	490	J	960	120	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Phenanthrene	5800		960	140	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5
Pyrene	5800		960	110	ug/Kg	✱	04/20/23 16:01	04/21/23 14:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		60 - 120	04/20/23 16:01	04/21/23 14:53	5
Nitrobenzene-d5 (Surr)	73		53 - 120	04/20/23 16:01	04/21/23 14:53	5
p-Terphenyl-d14 (Surr)	83		79 - 130	04/20/23 16:01	04/21/23 14:53	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3	J	228	0.46	mg/Kg	✱	04/20/23 14:31	04/21/23 14:39	1
Barium	66.7		57.0	0.13	mg/Kg	✱	04/20/23 14:31	04/21/23 14:39	1
Cadmium	0.25	J	22.8	0.034	mg/Kg	✱	04/20/23 14:31	04/21/23 14:39	1
Chromium	16.8	J	57.0	0.23	mg/Kg	✱	04/20/23 14:31	04/21/23 14:39	1
Lead	44.0	J	114	0.27	mg/Kg	✱	04/20/23 14:31	04/21/23 14:39	1
Selenium	ND		456	0.46	mg/Kg	✱	04/20/23 14:31	04/21/23 14:39	1
Silver	ND		68.5	0.23	mg/Kg	✱	04/20/23 14:31	04/21/23 14:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.024	0.0056	mg/Kg	✱	04/24/23 11:35	04/24/23 13:43	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-11 0-6IN

Lab Sample ID: 480-207977-7

Date Collected: 04/17/23 13:00

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 48.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	15000	J	35000	5100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Acenaphthylene	ND		35000	4500	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Anthracene	24000	J	35000	8600	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Benzo[a]anthracene	62000		35000	3500	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Benzo[a]pyrene	61000		35000	5100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Benzo[b]fluoranthene	79000		35000	5500	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Benzo[g,h,i]perylene	33000	J	35000	3700	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Benzo[k]fluoranthene	31000	J	35000	4500	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Chrysene	70000		35000	7800	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Dibenz(a,h)anthracene	11000	J	35000	6100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Fluoranthene	170000		35000	3700	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Fluorene	13000	J	35000	4100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Indeno[1,2,3-cd]pyrene	34000	J	35000	4300	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Naphthalene	ND		35000	4500	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Phenanthrene	130000		35000	5100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Pyrene	110000		35000	4100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:17	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	81		60 - 120				04/20/23 16:01	04/21/23 15:17	10
Nitrobenzene-d5 (Surr)	82		53 - 120				04/20/23 16:01	04/21/23 15:17	10
p-Terphenyl-d14 (Surr)	87		79 - 130				04/20/23 16:01	04/21/23 15:17	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9	J	434	0.87	mg/Kg	☼	04/20/23 14:31	04/21/23 14:43	1
Barium	207		108	0.24	mg/Kg	☼	04/20/23 14:31	04/21/23 14:43	1
Cadmium	2.5	J	43.4	0.065	mg/Kg	☼	04/20/23 14:31	04/21/23 14:43	1
Chromium	98.6	J	108	0.43	mg/Kg	☼	04/20/23 14:31	04/21/23 14:43	1
Lead	7120		217	0.52	mg/Kg	☼	04/20/23 14:31	04/21/23 14:43	1
Selenium	ND		868	0.87	mg/Kg	☼	04/20/23 14:31	04/21/23 14:43	1
Silver	ND		130	0.43	mg/Kg	☼	04/20/23 14:31	04/21/23 14:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.086		0.042	0.0096	mg/Kg	☼	04/24/23 11:35	04/24/23 13:45	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMT-12 1-3FT

Lab Sample ID: 480-207977-8

Date Collected: 04/17/23 13:30

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	41000	J	42000	6100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Acenaphthylene	31000	J	42000	5400	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Anthracene	160000		42000	10000	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Benzo[a]anthracene	530000		42000	4200	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Benzo[a]pyrene	560000		42000	6100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Benzo[b]fluoranthene	640000		42000	6600	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Benzo[g,h,i]perylene	320000		42000	4400	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Benzo[k]fluoranthene	270000		42000	5400	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Chrysene	510000		42000	9300	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Dibenz(a,h)anthracene	84000		42000	7300	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Fluorene	53000		42000	4900	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Indeno[1,2,3-cd]pyrene	310000		42000	5100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Naphthalene	12000	J	42000	5400	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Phenanthrene	640000		42000	6100	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20
Pyrene	1000000		42000	4900	ug/Kg	☼	04/20/23 16:01	04/21/23 15:41	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		60 - 120	04/20/23 16:01	04/21/23 15:41	20
Nitrobenzene-d5 (Surr)	84		53 - 120	04/20/23 16:01	04/21/23 15:41	20
p-Terphenyl-d14 (Surr)	125		79 - 130	04/20/23 16:01	04/21/23 15:41	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	1300000		100000	11000	ug/Kg	☼	04/20/23 16:01	04/24/23 13:32	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	0	S1-	60 - 120	04/20/23 16:01	04/24/23 13:32	50
Nitrobenzene-d5 (Surr)	0	S1-	53 - 120	04/20/23 16:01	04/24/23 13:32	50
p-Terphenyl-d14 (Surr)	104		79 - 130	04/20/23 16:01	04/24/23 13:32	50

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	J	250	0.50	mg/Kg	☼	04/20/23 14:31	04/21/23 14:58	1
Barium	83.6		62.6	0.14	mg/Kg	☼	04/20/23 14:31	04/21/23 14:58	1
Cadmium	0.67	J	25.0	0.038	mg/Kg	☼	04/20/23 14:31	04/21/23 14:58	1
Chromium	20.4	J	62.6	0.25	mg/Kg	☼	04/20/23 14:31	04/21/23 14:58	1
Lead	62.2	J	125	0.30	mg/Kg	☼	04/20/23 14:31	04/21/23 14:58	1
Selenium	ND		501	0.50	mg/Kg	☼	04/20/23 14:31	04/21/23 14:58	1
Silver	ND	^+	75.1	0.25	mg/Kg	☼	04/20/23 14:31	04/21/23 14:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.024	0.0056	mg/Kg	☼	04/24/23 11:35	04/24/23 13:46	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMT-13 1-3FT

Lab Sample ID: 480-207977-9

Date Collected: 04/17/23 14:00

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2000	300	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Acenaphthylene	800	J	2000	260	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Anthracene	930	J	2000	500	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Benzo[a]anthracene	3200		2000	200	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Benzo[a]pyrene	3400		2000	300	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Benzo[b]fluoranthene	3900		2000	320	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Benzo[g,h,i]perylene	2100		2000	210	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Benzo[k]fluoranthene	1500	J	2000	260	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Chrysene	2900		2000	450	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Dibenz(a,h)anthracene	570	J	2000	360	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Fluoranthene	7400		2000	210	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Fluorene	330	J	2000	240	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Indeno[1,2,3-cd]pyrene	1800	J	2000	250	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Naphthalene	330	J	2000	260	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Phenanthrene	2900		2000	300	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10
Pyrene	6200		2000	240	ug/Kg	✱	04/20/23 16:01	04/21/23 16:05	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		60 - 120	04/20/23 16:01	04/21/23 16:05	10
Nitrobenzene-d5 (Surr)	63		53 - 120	04/20/23 16:01	04/21/23 16:05	10
p-Terphenyl-d14 (Surr)	68	S1-	79 - 130	04/20/23 16:01	04/21/23 16:05	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.5	J	245	0.49	mg/Kg	✱	04/20/23 14:31	04/21/23 15:02	1
Barium	193		61.2	0.13	mg/Kg	✱	04/20/23 14:31	04/21/23 15:02	1
Cadmium	1.5	J	24.5	0.037	mg/Kg	✱	04/20/23 14:31	04/21/23 15:02	1
Chromium	24.7	J	61.2	0.24	mg/Kg	✱	04/20/23 14:31	04/21/23 15:02	1
Lead	967		122	0.29	mg/Kg	✱	04/20/23 14:31	04/21/23 15:02	1
Selenium	1.1	J	489	0.49	mg/Kg	✱	04/20/23 14:31	04/21/23 15:02	1
Silver	ND	^+	73.4	0.24	mg/Kg	✱	04/20/23 14:31	04/21/23 15:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.82		0.023	0.0052	mg/Kg	✱	04/24/23 11:35	04/24/23 13:47	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-14 0-6IN

Lab Sample ID: 480-207977-10

Date Collected: 04/17/23 14:30

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	240	J	1000	150	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Acenaphthylene	ND		1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Anthracene	450	J	1000	250	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Benzo[a]anthracene	850	J	1000	100	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Benzo[a]pyrene	860	J	1000	150	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Benzo[b]fluoranthene	1000		1000	160	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Benzo[g,h,i]perylene	490	J	1000	110	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Benzo[k]fluoranthene	400	J	1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Chrysene	910	J	1000	230	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Fluoranthene	2200		1000	110	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Fluorene	210	J	1000	120	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Indeno[1,2,3-cd]pyrene	470	J	1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Naphthalene	ND		1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Phenanthrene	1900		1000	150	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Pyrene	1700		1000	120	ug/Kg	☼	04/20/23 16:01	04/21/23 16:29	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	81		60 - 120				04/20/23 16:01	04/21/23 16:29	5
Nitrobenzene-d5 (Surr)	71		53 - 120				04/20/23 16:01	04/21/23 16:29	5
p-Terphenyl-d14 (Surr)	85		79 - 130				04/20/23 16:01	04/21/23 16:29	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18.1	J	257	0.51	mg/Kg	☼	04/20/23 14:31	04/21/23 15:06	1
Barium	472		64.2	0.14	mg/Kg	☼	04/20/23 14:31	04/21/23 15:06	1
Cadmium	2.5	J	25.7	0.039	mg/Kg	☼	04/20/23 14:31	04/21/23 15:06	1
Chromium	32.4	J	64.2	0.26	mg/Kg	☼	04/20/23 14:31	04/21/23 15:06	1
Lead	3060		128	0.31	mg/Kg	☼	04/20/23 14:31	04/21/23 15:06	1
Selenium	ND		514	0.51	mg/Kg	☼	04/20/23 14:31	04/21/23 15:06	1
Silver	0.43	J	77.1	0.26	mg/Kg	☼	04/20/23 14:31	04/25/23 12:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.90		0.022	0.0052	mg/Kg	☼	04/24/23 11:35	04/24/23 13:49	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-15 0-6IN

Lab Sample ID: 480-207977-11

Date Collected: 04/17/23 15:00

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1900	280	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Acenaphthylene	ND		1900	250	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Anthracene	630	J	1900	470	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Benzo[a]anthracene	1800	J	1900	190	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Benzo[a]pyrene	1800	J	1900	280	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Benzo[b]fluoranthene	2200		1900	300	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Benzo[g,h,i]perylene	910	J	1900	200	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Benzo[k]fluoranthene	850	J	1900	250	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Chrysene	1900		1900	430	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Dibenz(a,h)anthracene	ND		1900	340	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Fluoranthene	3700		1900	200	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Fluorene	ND		1900	230	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Indeno[1,2,3-cd]pyrene	890	J	1900	240	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Naphthalene	ND		1900	250	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Phenanthrene	2200		1900	280	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Pyrene	2800		1900	230	ug/Kg	✳	04/20/23 16:01	04/21/23 16:53	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		60 - 120				04/20/23 16:01	04/21/23 16:53	10
Nitrobenzene-d5 (Surr)	62		53 - 120				04/20/23 16:01	04/21/23 16:53	10
p-Terphenyl-d14 (Surr)	75	S1-	79 - 130				04/20/23 16:01	04/21/23 16:53	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3	J	221	0.44	mg/Kg	✳	04/20/23 14:31	04/21/23 15:10	1
Barium	43.0	J F1 F2	55.3	0.12	mg/Kg	✳	04/20/23 14:31	04/21/23 15:10	1
Cadmium	1.3	J	22.1	0.033	mg/Kg	✳	04/20/23 14:31	04/21/23 15:10	1
Chromium	87.8	F1	55.3	0.22	mg/Kg	✳	04/20/23 14:31	04/21/23 15:10	1
Lead	166	F1	111	0.27	mg/Kg	✳	04/20/23 14:31	04/21/23 15:10	1
Selenium	ND		442	0.44	mg/Kg	✳	04/20/23 14:31	04/21/23 15:10	1
Silver	ND	^+	66.4	0.22	mg/Kg	✳	04/20/23 14:31	04/21/23 15:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.021	0.0049	mg/Kg	✳	04/24/23 11:35	04/24/23 13:50	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-13 3-5FT

Lab Sample ID: 480-207977-16

Date Collected: 04/17/23 14:00

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1000	150	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Acenaphthylene	ND		1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Anthracene	ND		1000	250	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Benzo[a]anthracene	280	J	1000	100	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Benzo[a]pyrene	320	J	1000	150	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Benzo[b]fluoranthene	340	J	1000	160	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Benzo[g,h,i]perylene	220	J	1000	110	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Benzo[k]fluoranthene	210	J	1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Chrysene	330	J	1000	230	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Fluoranthene	620	J	1000	110	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Fluorene	ND		1000	120	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Indeno[1,2,3-cd]pyrene	200	J	1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Naphthalene	ND		1000	130	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Phenanthrene	360	J	1000	150	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Pyrene	480	J	1000	120	ug/Kg	☼	04/20/23 16:01	04/21/23 17:17	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		60 - 120				04/20/23 16:01	04/21/23 17:17	5
Nitrobenzene-d5 (Surr)	61		53 - 120				04/20/23 16:01	04/21/23 17:17	5
p-Terphenyl-d14 (Surr)	71	S1-	79 - 130				04/20/23 16:01	04/21/23 17:17	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7	J	248	0.50	mg/Kg	☼	04/20/23 14:31	04/21/23 14:11	1
Barium	146		62.0	0.14	mg/Kg	☼	04/20/23 14:31	04/21/23 14:11	1
Cadmium	0.54	J	24.8	0.037	mg/Kg	☼	04/20/23 14:31	04/21/23 14:11	1
Chromium	25.5	J	62.0	0.25	mg/Kg	☼	04/20/23 14:31	04/21/23 14:11	1
Lead	19.3	J	124	0.30	mg/Kg	☼	04/20/23 14:31	04/21/23 14:11	1
Selenium	1.8	J	496	0.50	mg/Kg	☼	04/20/23 14:31	04/21/23 14:11	1
Silver	ND		74.4	0.25	mg/Kg	☼	04/20/23 14:31	04/21/23 14:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.023	0.0054	mg/Kg	☼	04/24/23 11:35	04/24/23 13:51	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (60-120)	NBZ (53-120)	TPHd14 (79-130)
480-207977-1	BMTP-1 1-3FT	94	81	144 S1+
480-207977-1 - DL	BMTP-1 1-3FT	94	0 S1-	0 S1-
480-207977-2	BMTP-3 0-1.5FT	79	75	76 S1-
480-207977-3	BMTP-5 4-6FT	82	73	88
480-207977-4	BMTP-6 1-2FT	74	66	70 S1-
480-207977-5	BMTP-7 1-2FT	75	67	90
480-207977-6	BMTP-10 0-6IN	80	73	83
480-207977-7	BMTP-11 0-6IN	81	82	87
480-207977-8	BMTP-12 1-3FT	80	84	125
480-207977-8 - DL	BMTP-12 1-3FT	0 S1-	0 S1-	104
480-207977-9	BMTP-13 1-3FT	65	63	68 S1-
480-207977-10	BMTP-14 0-6IN	81	71	85
480-207977-11	BMTP-15 0-6IN	70	62	75 S1-
480-207977-16	BMTP-13 3-5FT	70	61	71 S1-
LCS 480-666236/2-A	Lab Control Sample	72	64	84
MB 480-666236/1-A	Method Blank	82	73	96

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

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

Lab Sample ID: MB 480-666236/1-A
Matrix: Solid
Analysis Batch: 666313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666236

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		170	24	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Acenaphthylene	ND		170	21	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Anthracene	ND		170	41	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Benzo[a]anthracene	ND		170	17	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Benzo[a]pyrene	ND		170	24	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Benzo[g,h,i]perylene	ND		170	17	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Benzo[k]fluoranthene	ND		170	21	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Chrysene	ND		170	37	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Fluoranthene	ND		170	17	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Fluorene	ND		170	19	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Indeno[1,2,3-cd]pyrene	ND		170	20	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Naphthalene	ND		170	21	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Phenanthrene	ND		170	24	ug/Kg		04/20/23 16:01	04/21/23 10:51	1
Pyrene	ND		170	19	ug/Kg		04/20/23 16:01	04/21/23 10:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	82		60 - 120	04/20/23 16:01	04/21/23 10:51	1
Nitrobenzene-d5 (Surr)	73		53 - 120	04/20/23 16:01	04/21/23 10:51	1
p-Terphenyl-d14 (Surr)	96		79 - 130	04/20/23 16:01	04/21/23 10:51	1

Lab Sample ID: LCS 480-666236/2-A
Matrix: Solid
Analysis Batch: 666313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666236

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Acenaphthene	1640	1310		ug/Kg		80	62 - 120
Acenaphthylene	1640	1320		ug/Kg		81	58 - 121
Anthracene	1640	1380		ug/Kg		84	62 - 120
Benzo[a]anthracene	1640	1380		ug/Kg		84	65 - 120
Benzo[a]pyrene	1640	1450		ug/Kg		89	64 - 120
Benzo[b]fluoranthene	1640	1390		ug/Kg		85	64 - 120
Benzo[g,h,i]perylene	1640	1420		ug/Kg		87	45 - 145
Benzo[k]fluoranthene	1640	1500		ug/Kg		92	65 - 120
Chrysene	1640	1350		ug/Kg		82	64 - 120
Dibenz(a,h)anthracene	1640	1450		ug/Kg		88	54 - 132
Fluoranthene	1640	1350		ug/Kg		82	62 - 120
Fluorene	1640	1320		ug/Kg		81	63 - 120
Indeno[1,2,3-cd]pyrene	1640	1510		ug/Kg		92	56 - 134
Naphthalene	1640	1180		ug/Kg		72	55 - 120
Phenanthrene	1640	1390		ug/Kg		85	60 - 120
Pyrene	1640	1510		ug/Kg		92	61 - 133

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	72		60 - 120
Nitrobenzene-d5 (Surr)	64		53 - 120
p-Terphenyl-d14 (Surr)	84		79 - 130

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QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-666172/1-A
Matrix: Solid
Analysis Batch: 666418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		189	0.38	mg/Kg		04/20/23 14:31	04/21/23 13:52	1
Barium	ND		47.3	0.10	mg/Kg		04/20/23 14:31	04/21/23 13:52	1
Cadmium	ND		18.9	0.028	mg/Kg		04/20/23 14:31	04/21/23 13:52	1
Chromium	ND		47.3	0.19	mg/Kg		04/20/23 14:31	04/21/23 13:52	1
Lead	ND		94.6	0.23	mg/Kg		04/20/23 14:31	04/21/23 13:52	1
Selenium	ND		378	0.38	mg/Kg		04/20/23 14:31	04/21/23 13:52	1
Silver	ND		56.8	0.19	mg/Kg		04/20/23 14:31	04/21/23 13:52	1

Lab Sample ID: LCSSRM 480-666172/2-A
Matrix: Solid
Analysis Batch: 666418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666172

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	101.9	J	mg/Kg		79.0	60.9 - 113.2
Barium	169	139.0		mg/Kg		82.2	68.6 - 114.2
Cadmium	227	170.7		mg/Kg		75.2	64.8 - 110.1
Chromium	115	95.95		mg/Kg		83.4	62.4 - 115.7
Lead	74.8	83.45	J	mg/Kg		111.6	67.0 - 128.9
Selenium	246	186.0	J	mg/Kg		75.6	60.2 - 114.6
Silver	87.5	74.17		mg/Kg		84.8	63.7 - 115.4

Lab Sample ID: 480-207977-11 MS
Matrix: Solid
Analysis Batch: 666432

Client Sample ID: BMTP-15 0-6IN
Prep Type: Total/NA
Prep Batch: 666172

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.3	J	47.7	49.56	J	mg/Kg	☼	95	75 - 125
Barium	43.0	J F1 F2	47.7	107.4	F1	mg/Kg	☼	135	75 - 125
Cadmium	1.3	J	47.7	45.04		mg/Kg	☼	92	75 - 125
Chromium	87.8	F1	47.7	120.6	F1	mg/Kg	☼	69	75 - 125
Lead	166	F1	47.7	182.7	F1	mg/Kg	☼	34	75 - 125
Selenium	ND		47.7	41.80	J	mg/Kg	☼	88	75 - 125
Silver	ND	^+	11.9	11.67	J ^+	mg/Kg	☼	98	75 - 125

Lab Sample ID: 480-207977-11 MSD
Matrix: Solid
Analysis Batch: 666432

Client Sample ID: BMTP-15 0-6IN
Prep Type: Total/NA
Prep Batch: 666172

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Arsenic	4.3	J	43.3	45.74	J	mg/Kg	☼	96	75 - 125	8	20
Barium	43.0	J F1 F2	43.3	87.34	F2	mg/Kg	☼	102	75 - 125	21	20
Cadmium	1.3	J	43.3	40.99		mg/Kg	☼	92	75 - 125	9	20
Chromium	87.8	F1	43.3	133.9		mg/Kg	☼	106	75 - 125	10	20
Lead	166	F1	43.3	208.3		mg/Kg	☼	97	75 - 125	13	20

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QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

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

Lab Sample ID: 480-207977-11 MSD
Matrix: Solid
Analysis Batch: 666432

Client Sample ID: BMTP-15 0-6IN
Prep Type: Total/NA
Prep Batch: 666172

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Selenium	ND		43.3	37.45	J	mg/Kg	⊛	86	75 - 125	11	20
Silver	ND	^+	10.8	10.57	J ^+	mg/Kg	⊛	98	75 - 125	10	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-666540/1-A
Matrix: Solid
Analysis Batch: 666645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666540

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.020	0.0045	mg/Kg		04/24/23 11:35	04/24/23 13:28	1

Lab Sample ID: LCSSRM 480-666540/2-A ^10
Matrix: Solid
Analysis Batch: 666645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666540

Analyte	Spike	LCSSRM	LCSSRM	Unit	D	%Rec	%Rec
							Added
Mercury	20.7	14.02		mg/Kg		67.7	38.3 - 110. 1

Lab Sample ID: 480-207977-1 MS
Matrix: Solid
Analysis Batch: 666645

Client Sample ID: BMTP-1 1-3FT
Prep Type: Total/NA
Prep Batch: 666540

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				Limits
Mercury	0.13	F1 F2	0.320	0.594	F1	mg/Kg	⊛	144	80 - 120

Lab Sample ID: 480-207977-1 MSD
Matrix: Solid
Analysis Batch: 666645

Client Sample ID: BMTP-1 1-3FT
Prep Type: Total/NA
Prep Batch: 666540

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Mercury	0.13	F1 F2	0.355	1.52	F1 F2	mg/Kg	⊛	392	80 - 120	88	20

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

GC/MS Semi VOA

Prep Batch: 666236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-1	BMTP-1 1-3FT	Total/NA	Solid	3550C	
480-207977-1 - DL	BMTP-1 1-3FT	Total/NA	Solid	3550C	
480-207977-2	BMTP-3 0-1.5FT	Total/NA	Solid	3550C	
480-207977-3	BMTP-5 4-6FT	Total/NA	Solid	3550C	
480-207977-4	BMTP-6 1-2FT	Total/NA	Solid	3550C	
480-207977-5	BMTP-7 1-2FT	Total/NA	Solid	3550C	
480-207977-6	BMTP-10 0-6IN	Total/NA	Solid	3550C	
480-207977-7	BMTP-11 0-6IN	Total/NA	Solid	3550C	
480-207977-8	BMTP-12 1-3FT	Total/NA	Solid	3550C	
480-207977-8 - DL	BMTP-12 1-3FT	Total/NA	Solid	3550C	
480-207977-9	BMTP-13 1-3FT	Total/NA	Solid	3550C	
480-207977-10	BMTP-14 0-6IN	Total/NA	Solid	3550C	
480-207977-11	BMTP-15 0-6IN	Total/NA	Solid	3550C	
480-207977-16	BMTP-13 3-5FT	Total/NA	Solid	3550C	
MB 480-666236/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-666236/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 666313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-1	BMTP-1 1-3FT	Total/NA	Solid	8270D	666236
480-207977-2	BMTP-3 0-1.5FT	Total/NA	Solid	8270D	666236
480-207977-3	BMTP-5 4-6FT	Total/NA	Solid	8270D	666236
480-207977-4	BMTP-6 1-2FT	Total/NA	Solid	8270D	666236
480-207977-5	BMTP-7 1-2FT	Total/NA	Solid	8270D	666236
480-207977-6	BMTP-10 0-6IN	Total/NA	Solid	8270D	666236
480-207977-7	BMTP-11 0-6IN	Total/NA	Solid	8270D	666236
480-207977-8	BMTP-12 1-3FT	Total/NA	Solid	8270D	666236
480-207977-9	BMTP-13 1-3FT	Total/NA	Solid	8270D	666236
480-207977-10	BMTP-14 0-6IN	Total/NA	Solid	8270D	666236
480-207977-11	BMTP-15 0-6IN	Total/NA	Solid	8270D	666236
480-207977-16	BMTP-13 3-5FT	Total/NA	Solid	8270D	666236
MB 480-666236/1-A	Method Blank	Total/NA	Solid	8270D	666236
LCS 480-666236/2-A	Lab Control Sample	Total/NA	Solid	8270D	666236

Analysis Batch: 666571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-1 - DL	BMTP-1 1-3FT	Total/NA	Solid	8270D	666236
480-207977-8 - DL	BMTP-12 1-3FT	Total/NA	Solid	8270D	666236

Metals

Prep Batch: 666172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-1	BMTP-1 1-3FT	Total/NA	Solid	3050B	
480-207977-2	BMTP-3 0-1.5FT	Total/NA	Solid	3050B	
480-207977-3	BMTP-5 4-6FT	Total/NA	Solid	3050B	
480-207977-4	BMTP-6 1-2FT	Total/NA	Solid	3050B	
480-207977-5	BMTP-7 1-2FT	Total/NA	Solid	3050B	
480-207977-6	BMTP-10 0-6IN	Total/NA	Solid	3050B	
480-207977-7	BMTP-11 0-6IN	Total/NA	Solid	3050B	
480-207977-8	BMTP-12 1-3FT	Total/NA	Solid	3050B	

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QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Metals (Continued)

Prep Batch: 666172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-9	BMTP-13 1-3FT	Total/NA	Solid	3050B	
480-207977-10	BMTP-14 0-6IN	Total/NA	Solid	3050B	
480-207977-11	BMTP-15 0-6IN	Total/NA	Solid	3050B	
480-207977-16	BMTP-13 3-5FT	Total/NA	Solid	3050B	
MB 480-666172/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-666172/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-207977-11 MS	BMTP-15 0-6IN	Total/NA	Solid	3050B	
480-207977-11 MSD	BMTP-15 0-6IN	Total/NA	Solid	3050B	

Analysis Batch: 666418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-1	BMTP-1 1-3FT	Total/NA	Solid	6010C	666172
480-207977-2	BMTP-3 0-1.5FT	Total/NA	Solid	6010C	666172
480-207977-3	BMTP-5 4-6FT	Total/NA	Solid	6010C	666172
480-207977-4	BMTP-6 1-2FT	Total/NA	Solid	6010C	666172
480-207977-5	BMTP-7 1-2FT	Total/NA	Solid	6010C	666172
480-207977-6	BMTP-10 0-6IN	Total/NA	Solid	6010C	666172
480-207977-7	BMTP-11 0-6IN	Total/NA	Solid	6010C	666172
480-207977-16	BMTP-13 3-5FT	Total/NA	Solid	6010C	666172
MB 480-666172/1-A	Method Blank	Total/NA	Solid	6010C	666172
LCSSRM 480-666172/2-A	Lab Control Sample	Total/NA	Solid	6010C	666172

Analysis Batch: 666432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-8	BMTP-12 1-3FT	Total/NA	Solid	6010C	666172
480-207977-9	BMTP-13 1-3FT	Total/NA	Solid	6010C	666172
480-207977-10	BMTP-14 0-6IN	Total/NA	Solid	6010C	666172
480-207977-11	BMTP-15 0-6IN	Total/NA	Solid	6010C	666172
480-207977-11 MS	BMTP-15 0-6IN	Total/NA	Solid	6010C	666172
480-207977-11 MSD	BMTP-15 0-6IN	Total/NA	Solid	6010C	666172

Prep Batch: 666540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-1	BMTP-1 1-3FT	Total/NA	Solid	7471B	
480-207977-2	BMTP-3 0-1.5FT	Total/NA	Solid	7471B	
480-207977-3	BMTP-5 4-6FT	Total/NA	Solid	7471B	
480-207977-4	BMTP-6 1-2FT	Total/NA	Solid	7471B	
480-207977-5	BMTP-7 1-2FT	Total/NA	Solid	7471B	
480-207977-6	BMTP-10 0-6IN	Total/NA	Solid	7471B	
480-207977-7	BMTP-11 0-6IN	Total/NA	Solid	7471B	
480-207977-8	BMTP-12 1-3FT	Total/NA	Solid	7471B	
480-207977-9	BMTP-13 1-3FT	Total/NA	Solid	7471B	
480-207977-10	BMTP-14 0-6IN	Total/NA	Solid	7471B	
480-207977-11	BMTP-15 0-6IN	Total/NA	Solid	7471B	
480-207977-16	BMTP-13 3-5FT	Total/NA	Solid	7471B	
MB 480-666540/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-666540/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-207977-1 MS	BMTP-1 1-3FT	Total/NA	Solid	7471B	
480-207977-1 MSD	BMTP-1 1-3FT	Total/NA	Solid	7471B	

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Metals

Analysis Batch: 666645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-1	BMTP-1 1-3FT	Total/NA	Solid	7471B	666540
480-207977-2	BMTP-3 0-1.5FT	Total/NA	Solid	7471B	666540
480-207977-3	BMTP-5 4-6FT	Total/NA	Solid	7471B	666540
480-207977-4	BMTP-6 1-2FT	Total/NA	Solid	7471B	666540
480-207977-5	BMTP-7 1-2FT	Total/NA	Solid	7471B	666540
480-207977-6	BMTP-10 0-6IN	Total/NA	Solid	7471B	666540
480-207977-7	BMTP-11 0-6IN	Total/NA	Solid	7471B	666540
480-207977-8	BMTP-12 1-3FT	Total/NA	Solid	7471B	666540
480-207977-9	BMTP-13 1-3FT	Total/NA	Solid	7471B	666540
480-207977-10	BMTP-14 0-6IN	Total/NA	Solid	7471B	666540
480-207977-11	BMTP-15 0-6IN	Total/NA	Solid	7471B	666540
480-207977-16	BMTP-13 3-5FT	Total/NA	Solid	7471B	666540
MB 480-666540/1-A	Method Blank	Total/NA	Solid	7471B	666540
LCSRM 480-666540/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	666540
480-207977-1 MS	BMTP-1 1-3FT	Total/NA	Solid	7471B	666540
480-207977-1 MSD	BMTP-1 1-3FT	Total/NA	Solid	7471B	666540

Analysis Batch: 666824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-10	BMTP-14 0-6IN	Total/NA	Solid	6010C	666172

General Chemistry

Analysis Batch: 666262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207977-1	BMTP-1 1-3FT	Total/NA	Solid	Moisture	
480-207977-2	BMTP-3 0-1.5FT	Total/NA	Solid	Moisture	
480-207977-3	BMTP-5 4-6FT	Total/NA	Solid	Moisture	
480-207977-4	BMTP-6 1-2FT	Total/NA	Solid	Moisture	
480-207977-5	BMTP-7 1-2FT	Total/NA	Solid	Moisture	
480-207977-6	BMTP-10 0-6IN	Total/NA	Solid	Moisture	
480-207977-7	BMTP-11 0-6IN	Total/NA	Solid	Moisture	
480-207977-8	BMTP-12 1-3FT	Total/NA	Solid	Moisture	
480-207977-9	BMTP-13 1-3FT	Total/NA	Solid	Moisture	
480-207977-10	BMTP-14 0-6IN	Total/NA	Solid	Moisture	
480-207977-11	BMTP-15 0-6IN	Total/NA	Solid	Moisture	
480-207977-16	BMTP-13 3-5FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-1 1-3FT

Lab Sample ID: 480-207977-1

Date Collected: 04/17/23 09:30

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-1 1-3FT

Lab Sample ID: 480-207977-1

Date Collected: 04/17/23 09:30

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		10	666313	JMM	EET BUF	04/21/23 12:52
Total/NA	Prep	3550C	DL		666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D	DL	50	666571	JMM	EET BUF	04/24/23 13:07
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666418	BMB	EET BUF	04/21/23 14:19
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:30

Client Sample ID: BMTP-3 0-1.5FT

Lab Sample ID: 480-207977-2

Date Collected: 04/17/23 10:45

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-3 0-1.5FT

Lab Sample ID: 480-207977-2

Date Collected: 04/17/23 10:45

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		10	666313	JMM	EET BUF	04/21/23 13:16
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666418	BMB	EET BUF	04/21/23 14:23
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:35

Client Sample ID: BMTP-5 4-6FT

Lab Sample ID: 480-207977-3

Date Collected: 04/17/23 11:15

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-5 4-6FT
Date Collected: 04/17/23 11:15
Date Received: 04/19/23 09:50

Lab Sample ID: 480-207977-3
Matrix: Solid
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		5	666313	JMM	EET BUF	04/21/23 13:40
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666418	BMB	EET BUF	04/21/23 14:27
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:37

Client Sample ID: BMTP-6 1-2FT
Date Collected: 04/17/23 11:45
Date Received: 04/19/23 09:50

Lab Sample ID: 480-207977-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-6 1-2FT
Date Collected: 04/17/23 11:45
Date Received: 04/19/23 09:50

Lab Sample ID: 480-207977-4
Matrix: Solid
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		5	666313	JMM	EET BUF	04/21/23 14:04
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666418	BMB	EET BUF	04/21/23 14:31
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:38

Client Sample ID: BMTP-7 1-2FT
Date Collected: 04/17/23 12:15
Date Received: 04/19/23 09:50

Lab Sample ID: 480-207977-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-7 1-2FT
Date Collected: 04/17/23 12:15
Date Received: 04/19/23 09:50

Lab Sample ID: 480-207977-5
Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		1	666313	JMM	EET BUF	04/21/23 14:29
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666418	BMB	EET BUF	04/21/23 14:35
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:39

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-10 0-6IN

Lab Sample ID: 480-207977-6

Date Collected: 04/17/23 12:30

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-10 0-6IN

Lab Sample ID: 480-207977-6

Date Collected: 04/17/23 12:30

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		5	666313	JMM	EET BUF	04/21/23 14:53
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666418	BMB	EET BUF	04/21/23 14:39
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:43

Client Sample ID: BMTP-11 0-6IN

Lab Sample ID: 480-207977-7

Date Collected: 04/17/23 13:00

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-11 0-6IN

Lab Sample ID: 480-207977-7

Date Collected: 04/17/23 13:00

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 48.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		10	666313	JMM	EET BUF	04/21/23 15:17
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666418	BMB	EET BUF	04/21/23 14:43
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:45

Client Sample ID: BMTP-12 1-3FT

Lab Sample ID: 480-207977-8

Date Collected: 04/17/23 13:30

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-12 1-3FT

Lab Sample ID: 480-207977-8

Date Collected: 04/17/23 13:30

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		20	666313	JMM	EET BUF	04/21/23 15:41
Total/NA	Prep	3550C	DL		666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D	DL	50	666571	JMM	EET BUF	04/24/23 13:32
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666432	BMB	EET BUF	04/21/23 14:58
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:46

Client Sample ID: BMTP-13 1-3FT

Lab Sample ID: 480-207977-9

Date Collected: 04/17/23 14:00

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-13 1-3FT

Lab Sample ID: 480-207977-9

Date Collected: 04/17/23 14:00

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		10	666313	JMM	EET BUF	04/21/23 16:05
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666432	BMB	EET BUF	04/21/23 15:02
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:47

Client Sample ID: BMTP-14 0-6IN

Lab Sample ID: 480-207977-10

Date Collected: 04/17/23 14:30

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-14 0-6IN

Lab Sample ID: 480-207977-10

Date Collected: 04/17/23 14:30

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		5	666313	JMM	EET BUF	04/21/23 16:29
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666432	BMB	EET BUF	04/21/23 15:06
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666824	BMB	EET BUF	04/25/23 12:51

Eurofins Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
 Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Client Sample ID: BMTP-14 0-6IN

Lab Sample ID: 480-207977-10

Date Collected: 04/17/23 14:30

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:49

Client Sample ID: BMTP-15 0-6IN

Lab Sample ID: 480-207977-11

Date Collected: 04/17/23 15:00

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-15 0-6IN

Lab Sample ID: 480-207977-11

Date Collected: 04/17/23 15:00

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		10	666313	JMM	EET BUF	04/21/23 16:53
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666432	BMB	EET BUF	04/21/23 15:10
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:50

Client Sample ID: BMTP-13 3-5FT

Lab Sample ID: 480-207977-16

Date Collected: 04/17/23 14:00

Matrix: Solid

Date Received: 04/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	666262	DSC	EET BUF	04/20/23 18:38

Client Sample ID: BMTP-13 3-5FT

Lab Sample ID: 480-207977-16

Date Collected: 04/17/23 14:00

Matrix: Solid

Date Received: 04/19/23 09:50

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			666236	SJM	EET BUF	04/20/23 16:01
Total/NA	Analysis	8270D		5	666313	JMM	EET BUF	04/21/23 17:17
Total/NA	Prep	3050B			666172	VAK	EET BUF	04/20/23 14:31
Total/NA	Analysis	6010C		1	666418	BMB	EET BUF	04/21/23 14:11
Total/NA	Prep	7471B			666540	NVK	EET BUF	04/24/23 11:35
Total/NA	Analysis	7471B		1	666645	NVK	EET BUF	04/24/23 13:51

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Jefferson & Best site

Job ID: 480-207977-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Jefferson & Best site

Job ID: 480-207977-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207977-1	BMTP-1 1-3FT	Solid	04/17/23 09:30	04/19/23 09:50
480-207977-2	BMTP-3 0-1.5FT	Solid	04/17/23 10:45	04/19/23 09:50
480-207977-3	BMTP-5 4-6FT	Solid	04/17/23 11:15	04/19/23 09:50
480-207977-4	BMTP-6 1-2FT	Solid	04/17/23 11:45	04/19/23 09:50
480-207977-5	BMTP-7 1-2FT	Solid	04/17/23 12:15	04/19/23 09:50
480-207977-6	BMTP-10 0-6IN	Solid	04/17/23 12:30	04/19/23 09:50
480-207977-7	BMTP-11 0-6IN	Solid	04/17/23 13:00	04/19/23 09:50
480-207977-8	BMTP-12 1-3FT	Solid	04/17/23 13:30	04/19/23 09:50
480-207977-9	BMTP-13 1-3FT	Solid	04/17/23 14:00	04/19/23 09:50
480-207977-10	BMTP-14 0-6IN	Solid	04/17/23 14:30	04/19/23 09:50
480-207977-11	BMTP-15 0-6IN	Solid	04/17/23 15:00	04/19/23 09:50
480-207977-16	BMTP-13 3-5FT	Solid	04/17/23 14:00	04/19/23 09:50

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

TAL-8210

Address:

Regulatory Program: DW NPDES RCRA Other: _____

Project Manager: 2771 Maybank Date: 4/19/23 COC No. _____ of _____ COCs

Tell/Email: 716-713-3437 Carrier: _____

Site Contact: Nick Sca... For Lab Use Only: _____
 Lab Contact: Brian Flue... Walk-in Client: _____
 Job / SDG No.: _____

Analysis Turnaround Time: _____
 CALENDAR DAYS WORKING DAYS
 TAT: if different from Below
 2 weeks 1 week 2 days 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
BMT-P-1 1-3Ft	4/17/23	9:30	G	Soil	2			
BMT-P-3 0-1.5Ft		10:45						
BMT-P-5 4-6Ft		11:15						
BMT-P-6 1-2Ft		11:45						
BMT-P-7 1-2Ft		12:11						
BMT-P-10 0-6in		12:30						
BMT-P-11 0-6in		13:00						
BMT-P-12 1-3Ft		13:30						
BMT-P-13 1-3Ft		14:00						
BMT-P-14 0-6in		14:30						
BMT-P-15 0-6in		15:00						



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
 Possible Hazard Identification: _____
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seal No.: _____
 Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____

Received by: _____
 Received by: _____
 Received in Laboratory by: _____

Company: BPark Date/Time: 4/19/23 11:00
 Company: _____ Date/Time: _____
 Company: _____ Date/Time: _____

Company: Ameslab Date/Time: _____
 Company: FA Date/Time: 4/19/23 9:50

410 # 1 ICE



Address:

Chain of Custody Record

599245



Environment Testi
TestAmerica

TAL-821C

Regulatory Program: DW NPDES RCRA Other:

Project Manager: Michelle Spivey Date: 4/19/23
Tel/Email: 714-713-3433 Carrier:

COC No: _____ of _____ COCs

Site Contact: Michelle Spivey
Lab Contact: Michelle Spivey

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Company Name: TUMPKS ENVIRONMENTAL
Address: 2519 Highway 101
City/State/Zip: San Diego, CA 92116
Phone: 714-713-3433
Fax:
Project Name: JPT Facility
Site:
P.O.# 70562-003-001

Sampler:
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification

Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
<u>4/17/23</u>	<u>10:15</u>	<u>G</u>	<u>Soil</u>	<u>2</u>
<u>4/17/23</u>	<u>12:25</u>	<u>G</u>	<u>Soil</u>	<u>1</u>
<u>4/17/23</u>	<u>12:25</u>	<u>G</u>	<u>Soil</u>	<u>1</u>
<u>4/17/23</u>	<u>13:35</u>	<u>G</u>	<u>Soil</u>	<u>1</u>
<u>4/17/23</u>	<u>14:00</u>	<u>G</u>	<u>Soil</u>	<u>1</u>

Sample Specific Notes:
On hold
On hold
On hold
On hold

Filtered Sample (Y/N) _____
Perform MS/MSD (Y/N) _____

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____
Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:
 Non-Hazard Flammable Skin Irritant Unknown
 Return to Client Disposal by Lab Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Cooler Temp. (°C): Obs'd: _____ Corrid: _____ Therm ID No.: _____
Received by: _____ Date/Time: _____
Received by: _____ Date/Time: _____
Received in Laboratory by: Michelle Spivey Date/Time: 4/19/23 9:50

Custody Seal No.: _____
Relinquished by: _____ Date/Time: 4/19/23 14:00
Relinquished by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____



Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-207977-1

Login Number: 207977

List Number: 1

Creator: Kolb, Chris M

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