April 12, 2023

Mr. Justin Azzarella
Chief Strategy Officer
Evergreen Health
206 S. Elmwood Avenue
Buffalo, New York 14201
Email: jazzarell@evergreenhs.org

Re: Supplemental Phase II Site Investigation Report
Bailey & Kensington Site
3074 Bailey Avenue and 1096, 1098, and 1102 Kensington Avenue
Buffalo, New York

Dear Mr. Azzarella:

Benchmark Civil/Environmental Engineering & Geology, PLLC (Benchmark) has prepared this letter to summarize the results of the Supplemental Phase II Environmental Investigation (Supplemental Phase II) activities at the above referenced Site for Evergreen Health (Evergreen). The primary purposes of the Supplemental Phase II were to further evaluate if historic and/or filling activities have impacted the Site and evaluate whether the Site may be eligible for the New York Brownfield Cleanup Program (BCP).

BACKGROUND

The Site consists of four (4) parcels and is ±1.07 acres in size (see Figures 1 and 2). Previous investigations[1,2] were completed at the Site by others and Evergreen has had preliminary discussions (Pre-BCP Application Meeting) with New York State Department of Environmental Conservation (NYSDEC) concerning BCP eligibility for the properties. NYSDEC suggested that additional data would be necessary to the support eligibility of the Site for the BCP, therefore Benchmark completed a Supplemental Phase II on behalf of Evergreen to collect additional data as discussed below.

[1] "Phase I Environmental Site Assessment, Kensington and Bailey Properties, 1096, 1098, 1102, Kensington Avenue; 3074 Bailey Avenue, Buffalo, New York 14215". Prepared by C&S Companies, Inc. July 2022.
[2] "Phase II Environmental Site Assessment, Kensington and Bailey Properties, 1096, 1098, 1102, Kensington Avenue; 3074 Bailey Avenue, Buffalo, New York 14215". Prepared by C&S Companies, Inc. October 2022

SUPPLEMENTAL PHASE II SOIL/FILL INVESTIGATION

The Supplemental Phase II investigation activities consisted of nine (9) test trench (TTs) completed across the Site. The locations are shown on Figure 2. The TTs were advanced using an excavator and advanced to depths ranging from 3 to 8 feet below ground surface (fbgs) to assess subsurface soil/fill conditions. The subsurface conditions encountered are described in Table 1.

Benchmark personnel made visual and olfactory observations, and field screened soil/fill samples from the TTs for total volatile organic vapors with a photoionization detector (PID) that is capable of detecting contaminants such as petroleum products and solvents. The soil/fill samples retained from the TTs were also headspace screened. No field or headspace PID headspace measurements were detected above background (i.e., 0 ppm) at the TT locations.

Table 2 is a summary of the soil/fill samples submitted for laboratory testing along with the analysis completed. The soil/fill samples collected were placed in pre-cleaned laboratory provided sample jars, placed on ice in the field, and transported under chain-of-custody to the laboratory for analysis for analysis which included Base-Neutral list semi-volatile organic compounds (SVOCs) via EPA Method 8270 and Resource Conservation and Recovery Act (RCRA) 8 metals via EPA Method 6010C/7471B.

SURFACE AND SUBSURFACE CONDITIONS

The surface of the Site consists of asphalt on the northwestern portion of the Site and the remainder of the Site is covered in grass, shrubs, and/or trees.

The subsurface conditions encountered at the Site consist of soil/fill material overlying native sandy lean clay soils. Table 1 is a summary of the subsurface conditions encountered at the investigation locations. Urban fill materials were encountered across the grass covered areas at the Site and generally consisted of varying amounts of concrete, orange brick, wood, metal, glass, and cinders (man-made constituents) or reworked sand lean clay soils containing these man-made constituents. Groundwater was not encountered during the investigation.

SOIL/FILL ANALYTICAL RESULTS

The results of the analytical samples collected and analyzed as part of the Supplemental Phase II investigation are summarized on Table 3 and the laboratory report is included as Attachment 2. Figure 3 contains the soil/fill and groundwater data generated for the Site from the previous Phase II investigation and Benchmark's Supplemental Phase II.

Based on the planned redevelopment, the applicable 6NYCRR Part 375 soil cleanup objectives (SCOs) would be Commercial Use Soil Cleanup Objectives (CSCOs). As discussed below exceedances of the CSCO, as well as Industrial SCOs (ISCOs) were noted.

Semi-Volatile Organic Compounds
Benzo(a)pyrene was detected above its respective CSCO and ISCO at subsurface soil/fill samples TT-1 and TT-8 (see Table 3).

Benzo(a)pyrene was detected above its respective CSCO and ISCO at surface soil samples SS-3, SS-5, and subsurface soil sample SB-8, completed during the previous investigation, see Figure 3.

Metal Analytes
Arsenic was detected at concentrations exceeding its CSCO/ISCOs at subsurface soil/fill samples from TT-6 (see Table 3).

Arsenic, chromium, and manganese were also detected above their respective CSCO and/or ISCO at surface soil samples SS-5, completed during the previous investigation, see Figure 3.

GROUNDWATER ANALYTICAL RESULTS

No groundwater samples were collected as part of Benchmark's Phase II, however three (3) temporary monitoring wells were installed and sampled during the previous Phase II by others. The location and results exceeding their respective groundwater quality standards[3] (GWQS) are shown on Figure 3.

Total phenols were detected at GWSB-8 above its respective GWQS.

The following RCRA 8 metals analytes were detected above their respective GWQS:

GWSB-3:	Arsenic, chromium, lead, and mercury.
GWSB-8:	Lead
GWSB-10:	Arsenic, barium, cadmium, chromium, lead, mercury, and selenium

No VOCs were detected above their GWQS.

CONCLUSIONS

Contamination is present at the Site in the surface and subsurface soil/fill. SVOCs and metals are present at concentrations above their respective applicable SCOs (i.e., Commercial) for the intended reuse of the property. The fill material containing the contamination also contains solid waste materials that if generated during the redevelopment of this Site will require proper handling and management.

Groundwater has exceedances of GWQS for total phenols (GWSB-8) and various heavy metals at multiple locations at the Site.

[3] Class GA Groundwater Quality Standards and Guidance Values (GWQS) per NYSDEC's Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1). Dated June 1998, amended April 2000.

Based on the existing Site data, which includes SVOC- and metals-contaminated surface and subsurface soil/fill at all four (4) parcels of the Site, in addition to the metals impacted groundwater, the Site is a candidate for the BCP. The Site meets the definition of a BCP site per the current BCP law which states a "brownfield site or site shall mean any real property where a contaminant is present at levels exceeding the soil cleanup objectives or other health-based or environmental standards, criteria, or guidance adopted by the department that are applicable based on the reasonably anticipated use of the property, in accordance with applicable regulations."

We appreciate this opportunity to work with Evergreen on this project. Please contact us if you have any questions or require additional information.

Sincerely,
Benchmark Civil/Environmental Engineering & Geology, PLLC

Christopher Boron, P.G.
Sr. Project Manager

Thomas H. Forbes, P.E.
President

Attachments:
Table 1 – Summary of Sampling and Analysis Program
Table 2 – Summary of Subsurface Field Observations
Table 3 – Soil/Fill Sample Analytical Results
Figure 1 – Site Location & Vicinity Map
Figure 2 – Site Plan with Investigation Locations
Figure 3 – Investigation Locations with SCO Exceedances
Attachment 1 – Analytical Reports

TABLES

TABLE 1

SUMMARY OF SUBSURFACE FIELD OBSERVATIONS
SUPPLEMENTAL PHASE II ENVIRONMENTAL INVESTIGATION
BAILEY & KENSINGTON SITE
BUFFALO, NEW YORK

Location	Date	Urban Fill Present	Odors	Water Present	Depth of Test Pit (fbgs)	Length of Test Pits (ft)	Test Pit Width (ft)	PID Measurements	Sample Depth (ft)	Depth (fbgs) and Soil Description
TT-1	3/16/2023	Yes	No	No	5	30	3	0 ppm	0-2	**0.0-2.0 Sandy Urban Fill:** Brown, mostly fine sand mixed with urban fill material[1].
								0 ppm		**2.0-5.0 Sandy Clay:** Reddish brown, moist, mostly lean clay, some fine sand.
TT-2	3/16/2023	Yes	No	No	8	30	3	0 ppm	4-6	**0.0-8 Sandy Urban Fill:** Dark brown/ grey, mostly fine sand mixed with urban fill material[1], trace ash, metal, and rubber.
								0 ppm		**8.0 Sandy Clay:** Reddish brown, moist, mostly lean clay, some fine sand.
TT-3	3/16/2023	Yes	No	No	4	30	3	0 ppm		**0.0-0.5 Sandy Urban Fill:** Dark brown/ brown, mostly fine sand mixed with urban fill material[1]
								0 ppm	2-3	**0.5-3.0 Reworked sandy Clay with fill**: Reddish brown, moist, mostly lean clay, some fine sand, little urban fill material[1]
								0 ppm		**3.0-4.0 Sandy Clay:** Reddish brown, moist, mostly lean clay, some fine sand.
TT-4	3/16/2023	Yes	No	No	8	25	3	0 ppm		**0.0-0.4 Sandy Urban Fill:** Dark brown/ brown, mostly fine sand mixed with urban fill material[1]
								0 ppm	3-4	**0.4-8.0 Reworked sandy Clay with fill:** Reddish brown, moist, mostly lean clay, some fine sand, little urban fill material[1]
TT-5	03/16/23	Yes	No	Yes	5	8	2	0 ppm		**0-0.75 Topsoil:** Dark brown, moist, topsoil.
								0 ppm		**0.75-5.0 Sandy Clay:** Reddish brown, moist, mostly lean clay, some fine sand.
TT-6	03/16/23	Yes	No	No	3	7.0	2	0 ppm	0-1	**0-1.25 Fill:** Black, moist, fill. Composed of medium grained sands and fill inluding black fines, gravel, and cinders.
								0 ppm		**1.25-3 Sandy Clay:** Reddish brown, moist, mostly lean clay, some fine sand.
TT-7	3/16/2023	Yes	No	No	4	10	2	0 ppm	0-1	**0-1 Sandy Urban Fill:** Brown, mostly fine sand mixed with urban fill material[1].
								0 ppm		**1-4 Sandy Clay:** Reddish brown, moist, mostly lean clay, some fine sand.
TT-8	3/16/2023	Yes	No	No	4	10	2	0 ppm		**0-0.25 Asphalt**
								0 ppm		**0.25-0.75: Subangular gravel:** Grey, moist, mostly subangular gravel, some fine sand.
								0 ppm		**0.75-4 Sandy Clay:** Reddish brown, moist, mostly lean clay, some fine sand.
TT-9	3/16/2023	Yes	No	No	4	10	2	0 ppm		**0-0.25 Asphalt**
								0 ppm		**0.25-0.75 Subangular gravel:** Grey, moist, mostly subangular gravel, some fine sand.
								0 ppm	0.75-1.5	**0.75-1.5 Silty Sand:** Grey, moist, mostly silty sand, little subangular gravel.
								0 ppm		**1.5-4 Sandy Clay:** Reddish brown, moist, mostly lean clay, some fine sand.

Notes:

1. Urban Fill: varying combinations of concrete, orange brick, wood, metal, glass, and cinders.

Definitions:

fbgs = feet below ground surface
PID = photoionization detector
ppm = parts per million
DTW = Depth to water.
N/A = Non applicable

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TABLE 2
SUMMARY OF SAMPLING AND ANALYSIS PROGRAM
LIMITED PHASE II INVESTGATION REPORT
BAILEY & KENSINGTON SITE
BUFFALO, NEW YORK

Sample Location	Sample Depth (fbgs)	Soil Type	Analysis		
			TCL VOCs	TCL SVOCs Base-Neutral	RCRA 8 Metals
Subsurface Soil/Fill Samples					
TT-1	0 to 2	Fill		x	x
TT-2	4 to 6	Fill		x	x
TT-3	2 to 3	Fill		x	x
TT-4	3 to 4	Fill		x	x
TT-6	0 to 1	Fill		x	x
TT-7	0 to 1	Fill		x	x
TT-9	0.75 to 1.5	Fill		x	x

Notes:
fbgs - feet below ground surface.
TCL - Target Compound List
SVOCs - Semivolatile Organic Compounds.
RCRA - Resource Conservation & Recovery Act.

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TABLE 3

SUMMARY OF SOIL ANALYTICAL RESULTS

BAILEY AND KENSINGTON SITE
BUFFALO, NEW YORK

PARAMETER [1]	Unrestricted Use SCOs[3]	Restricted Residential Use SCOs[3]	Commercial Use SCOs[3]	Industrial Use SCOs[3]	SAMPLE LOCATION (DEPTH)						
					TT-1 0-2 ft	TT-2 4-5 ft	TT-3 2-3 ft	TT-4 3-4 ft	TT-6 0-1 ft	TT-7 0-1 ft	TT-9 0.75-1.5 ft
Sample Date					03/16/2023						
Polyaromatic Hydrocarbons (PAHs)											
Fluoranthene	**100**	**100**	**500**	**1000**	3.4 J	2.6	0.22 J	0.089 J	0.26	0.42 J	ND
Naphthalene	**12**	**100**	**500**	**1000**	ND	ND	ND	ND	0.032 J	ND	ND
Benzo(a)anthracene	**1**	**1**	**5.6**	**11**	**1.1 J**	0.75 J	ND	0.04 J	0.094 J	0.14 J	ND
Benzo(a)pyrene	**1**	**1**	**1**	**1.1**	**1.4 J**	0.92 J	ND	0.057 J	0.11 J	0.21 J	ND
Benzo(b)fluoranthene	**1**	**1**	**5.6**	**11**	**1.5 J**	**1.3**	ND	0.061 J	0.14 J	0.23 J	ND
Benzo(k)fluoranthene	**0.8**	**3.9**	**56**	**110**	ND	0.51 J	ND	ND	0.054 J	ND	ND
Chrysene	**1**	**3.9**	**56**	**110**	ND	0.85 J	ND	ND	0.11 J	ND	ND
Benzo(ghi)perylene	**100**	**100**	**500**	**1000**	0.81 J	0.77 J	ND	0.036 J	0.07 J	0.14 J	ND
Phenanthrene	**100**	**100**	**500**	**1000**	2.3 J	0.96 J	ND	0.082 J	0.14 J	ND	ND
Dibenzo(a,h)anthracene	**0.33**	**0.33**	**0.56**	**1.1**	ND	0.2 J	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	**5.6**	**11**	ND	**0.68 J**	ND	ND	0.055 J	ND	ND
Pyrene	**100**	**100**	**500**	**1000**	1.9 J	1.4	0.15 J	0.09 J	0.17 J	0.24 J	ND
Metals - mg/Kg											
Arsenic	**13**	**16**	**16**	**16**	12.6 J	5 J	5.3 J	6.7 J	**35.2 J**	**14.6 J**	2.7
Barium	**350**	**400**	**400**	**10,000**	188	61.3 J	101	104	162	234	75.2
Cadmium	**2.5**	**4.3**	**9.3**	**60**	1.1 J	0.39 J	0.26 J	0.28 J	0.82 J	2.3 J	0.25
Chromium	**31**	**180**	**1500**	**6800**	31 J	17 J	18.7 J	21 J	14.9 J	26.9 J	16.4
Lead	**64**	**400**	**1000**	**3900**	**171**	**74.7 J**	32.7 J	45.3 J	**77.5 J**	**502**	25.3
Mercury	**0.18**	**0.81**	**2.8**	**5.7**	0.17	0.061	0.072	0.048	0.066 J	**0.29**	0.075
Selenium	**3.9**	**180**	**1500**	**6800**	1.6 J	ND	ND	ND	0.81 J	ND	ND
Silver	**2**	**180**	**1500**	**6800**	ND	ND	ND	ND	ND	0.41 J	ND

Definitions:

ND = Parameter not detected above laboratory detection limit.

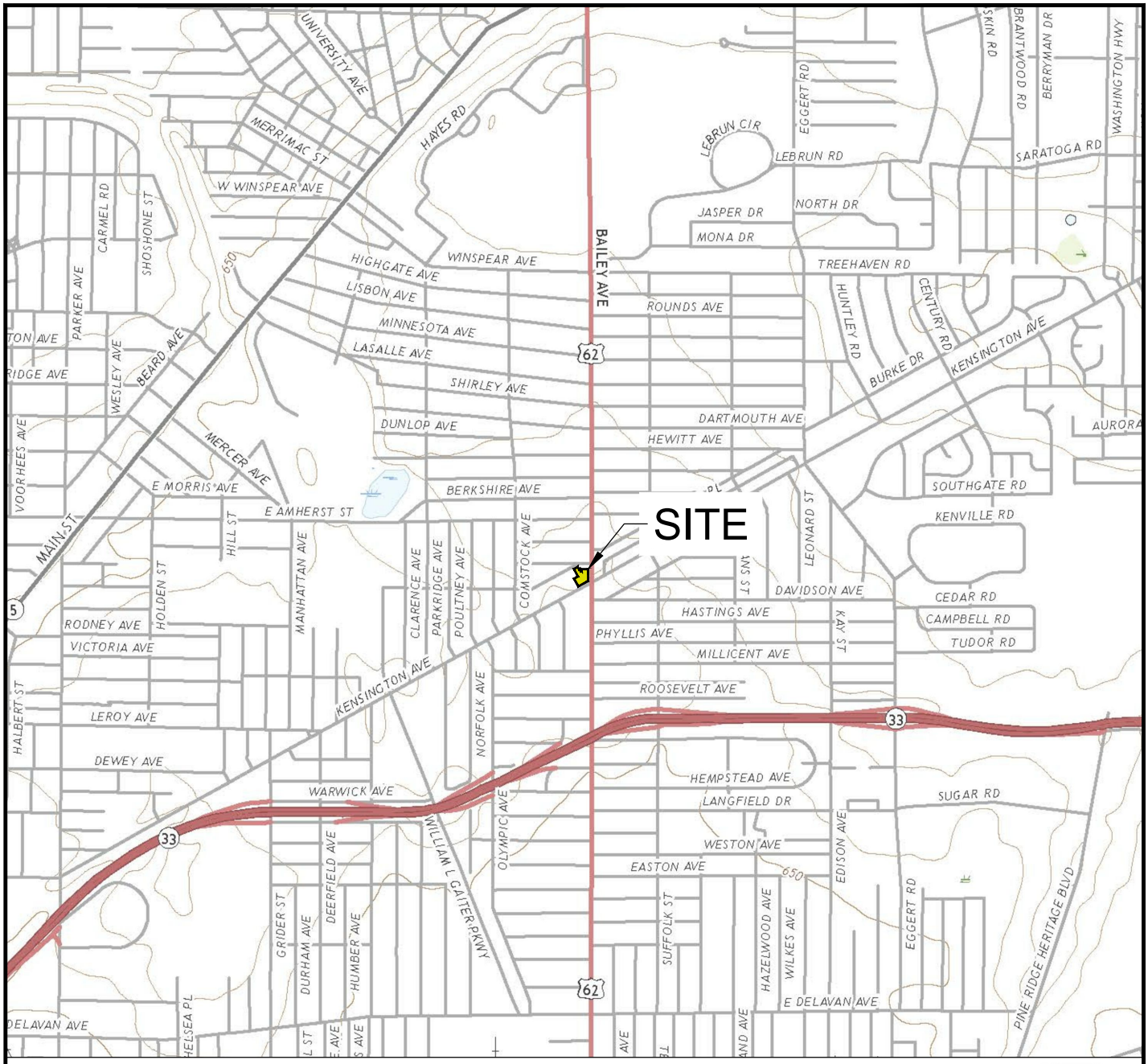
"--" = No value available for the parameter. Or parameter not analyzed for.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

Bold	= Result exceeds 6NYCRR Part 375 Unrestricted Use SCOs
Bold	= Result exceeds 6NYCRR Part 375 Restricted Residential Use SCOs
Bold	= Result exceeds 6NYCRR Part 375 Commercial Use SCOs
Bold	= Result exceeds 6NYCRR Part 375 Industrial Use SCOs

FIGURES

FIGURE 1



2,000' 0' 2,000' 4,000'

SCALE: 1 INCH = 2,000 FEET
SCALE IN FEET
(approximate)

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BENCHMARK

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

PROJECT NO.: B0665-023-001

DATE: APRIL 2023

DRAFTED BY: CNK/NAS

SITE LOCATION AND VICINITY MAP

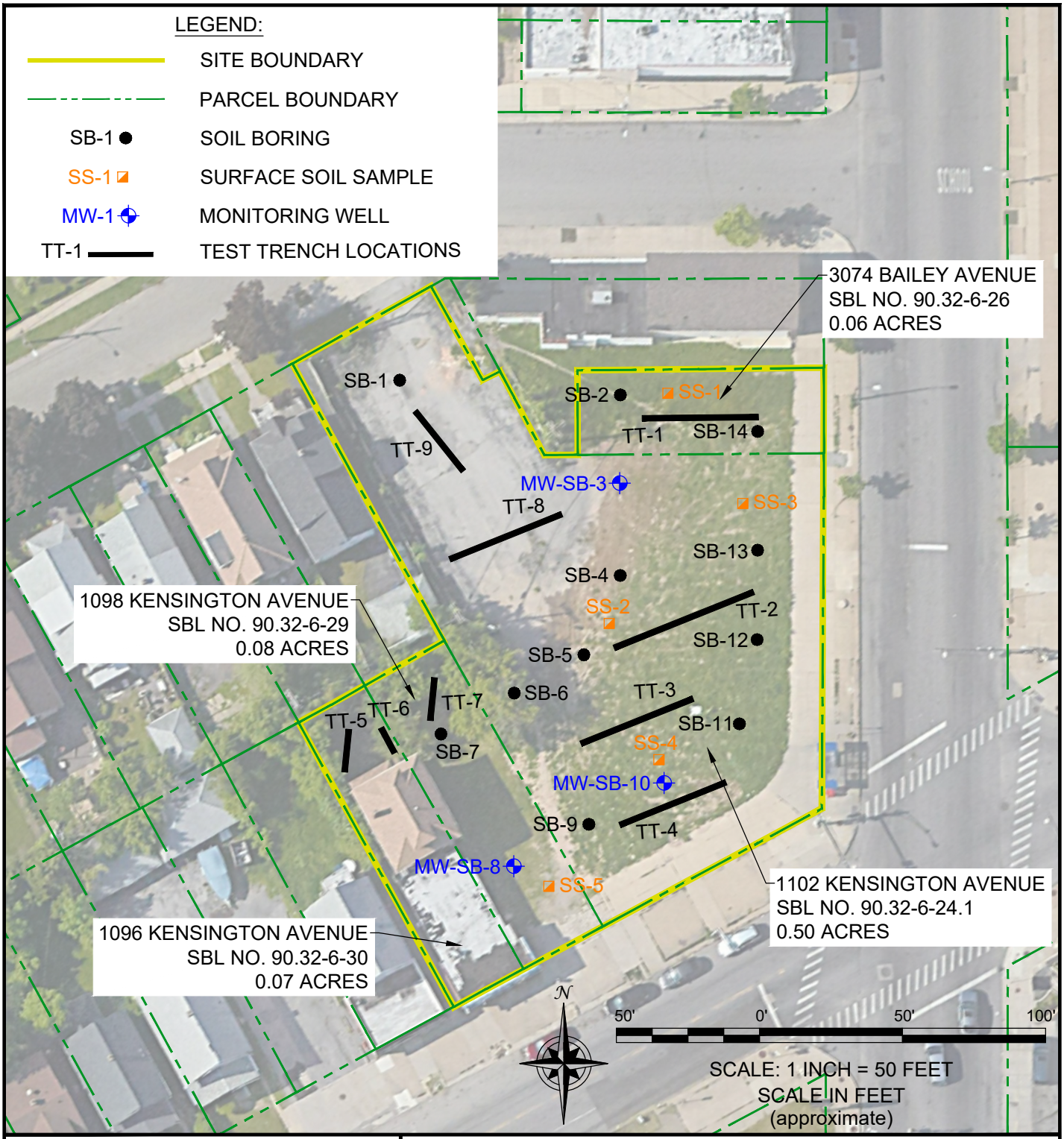
SUPPLEMENTAL PHASE II INVESTIGATION

BAILEY AND KENSINGTON SITE
BUFFALO, NEW YORK

PREPARED FOR

EVERGREEN HEALTH

FIGURE 2



BENCHMARK

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

PROJECT NO.: B0665-023-001

DATE: APRIL 2023

DRAFTED BY: CNK

INVESTIGATION LOCATIONS

SUPPLEMENTAL PHASE II INVESTIGATION

BAILEY AND KENSINGTON SITE
BUFFALO, NEW YORK

PREPARED FOR

EVERGREEN HEALTH

LEGEND:

- SITE BOUNDARY
- PARCEL BOUNDARY
- SB-1 ● SOIL BORING
- SS-1 SURFACE SOIL SAMPLE
- MW-1 MONITORING WELL
- TEST TRENCH LOCATIONS
- EXCEEDS UNRESTRICTED SCOs
- EXCEEDS RESTRICTED-RESIDENTIAL SCOs
- EXCEEDS COMMERCIAL SCOs
- EXCEEDS INDUSTRIAL SCOs
- EXCEEDS GWQS/GVs

NOTES:

1. IMAGE TAKEN FROM GOOGLE EARTH 2022.
2. SOIL ANALYTICAL RESULTS COMPARED TO 6 NYCRR PART 375 SOIL CLEANUP OBJECTIVES (SCOs).
3. GROUNDWATER ANALYTICAL RESULTS COMPARED TO TOGS 1.1.1 GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES (GWQS/GV).
4. ANALYTICAL RESULTS WERE TAKEN FROM "PHASE II ENVIRONMENTAL SITE ASSESSMENT, KENSINGTON AND BAILEY PROPERTIES, 1096, 1098, 1102 KENSINGTON AVE; 3074 BAILEY AVENUE, BUFFALO, NEW YORK 14215" DATED OCTOBER 2022 PREPARED BY C&S COMPANIES.

SB-1 (3 FT)	10/3/2022
PARAMETER	MG/KG
LEAD	382

SS-1	9/14/2022
PARAMETER	MG/KG
INDENO(1,2,3-CD)PYRENE	0.63
LEAD	68.6

GWSB-3	10/4/2022
PARAMETER	UG/L
ARSENIC	35
CHROMIUM	66
IRON	63200
LEAD	250
MAGNESIUM	48600
MANGANESE	1500
MERCURY	1
SODIUM	55700

SS-3	9/14/2022
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	1.8
BENZO(A)PYRENE	2.2
BENZO(B)FLUORANTHENE	2.9
BENZO(K)FLUORANTHENE	1
CHRYSENE	2.3
DIBENZO(A,H)ANTHRACENE	0.43
INDENO(1,2,3-CD)PYRENE	1.4
LEAD	127
ZINC	121

SB-4 (4 FT)	10/3/2022
PARAMETER	MG/KG
INDENO(1,2,3-CD)PYRENE	0.53
LEAD	102

SS-4	9/14/2022
PARAMETER	MG/KG
BENZO(B)FLUORANTHENE	1.3
LEAD	80.9
MERCURY	0.48

SB-6 (3 FT)	10/3/2022
PARAMETER	MG/KG
LEAD	156
MERCURY	0.28
ZINC	134

SB-8 (6 FT)	10/4/2022
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	2.3
BENZO(A)PYRENE	2.1
BENZO(B)FLUORANTHENE	2.6
BENZO(K)FLUORANTHENE	1
CHRYSENE	2.3
DIBENZO(A,H)ANTHRACENE	0.4
INDENO(1,2,3-CD)PYRENE	1.2
LEAD	149
ZINC	131

GWSB-8	10/5/2022
PARAMETER	UG/L
TOTAL PHENOLS	25
IRON	19500
LEAD	67
MAGNESIUM	37400
MANGANESE	990
SODIUM	67300

SS-5	9/14/2022
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	2
BENZO(A)PYRENE	2.2
BENZO(B)FLUORANTHENE	2.4
BENZO(K)FLUORANTHENE	1.4
CHRYSENE	2.1
DIBENZO(A,H)ANTHRACENE	0.37
INDENO(1,2,3-CD)PYRENE	1.1
ARSENIC	16.7
CHROMIUM	1520
LEAD	126
MANGANESE	20400
SELENIUM	7
SILVER	2.6

GWSB-10	10/5/2022
PARAMETER	UG/L
ANTIMONY	16
ARSENIC	110
BARIUM	2000
BERYLLIUM	12
CADMIUM	6.5
CHROMIUM	400
COPPER	470
IRON	333000
LEAD	1400
MAGNESIUM	209000
MANGANESE	7600
MERCURY	2.5
NICKEL	480
SELENIUM	17
SODIUM	321000

SB-1, SB-2, SS-1, TT-1, SB-14, TT-9, MW-SB-3, TT-8, SS-3, SB-4, SB-13, SS-2, TT-2, SB-12, SB-5, TT-3, TT-6, TT-7, SB-6, SB-11, SB-7, SS-4, TT-5, MW-SB-10, SB-9, TT-4, MW-SB-8, SS-5

N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: JANUARY 2023
DRAFTED BY: CNK

BENCHMARK

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

JOB NO.: B0665-023-001

PHASE II INVESTIGATION LOCATIONS AND EXCEEDANCES

BROWNFIELD CLEANUP PROGRAM PRE-APPLICATION

BAILEY AND KENSINGTON SITE
BUFFALO, NEW YORK

PREPARED FOR
EVERGREEN HEALTH

FIGURE 3

ATTACHMENT 1

ANALYTICAL REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Nick Suraci
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 4/21/2023 3:28:26 PM

JOB DESCRIPTION

Benchmark- Bailey & Kensington

JOB NUMBER

480-206997-2

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

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

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

Authorization

Generated
4/21/2023 3:28:26 PM

Authorized for release by
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-206997-2

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-206997-2

Job ID: 480-206997-2

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-206997-2

Comments
No additional comments.

Receipt
The samples were received on 3/16/2023 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9º C.

Metals
Method 7471B: The following sample was prepped and analyzed outside of analytical holding time due to client request.: TT-4 0-1FT (480-206997-9).

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: Benchmark- Bailey & Kensington

Job ID: 480-206997-2

Client Sample ID: TT-4 0-1FT

Lab Sample ID: 480-206997-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.3	J	239	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	74.8		59.8	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.29	J	23.9	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.0	J	59.8	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	66.9	J	120	0.29	mg/Kg	1	☼	6010C	Total/NA
Silver	0.26	J B	71.7	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.18	H	0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-206997-2

Client Sample ID: TT-4 0-1FT
Date Collected: 03/16/23 11:05
Date Received: 03/16/23 14:45

Lab Sample ID: 480-206997-9
Matrix: Solid
Percent Solids: 80.3

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3	J	239	0.48	mg/Kg	☼	04/19/23 16:22	04/20/23 15:32	1
Barium	74.8		59.8	0.13	mg/Kg	☼	04/19/23 16:22	04/20/23 15:32	1
Cadmium	0.29	J	23.9	0.036	mg/Kg	☼	04/19/23 16:22	04/20/23 15:32	1
Chromium	19.0	J	59.8	0.24	mg/Kg	☼	04/19/23 16:22	04/20/23 15:32	1
Lead	66.9	J	120	0.29	mg/Kg	☼	04/19/23 16:22	04/20/23 15:32	1
Selenium	ND		478	0.48	mg/Kg	☼	04/19/23 16:22	04/20/23 15:32	1
Silver	0.26	J B	71.7	0.24	mg/Kg	☼	04/19/23 16:22	04/20/23 15:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18	H	0.024	0.0056	mg/Kg	☼	04/18/23 09:48	04/18/23 13:04	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-666061/1-A
Matrix: Solid
Analysis Batch: 666242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		201	0.40	mg/Kg		04/19/23 16:22	04/20/23 15:24	1
Barium	ND		50.2	0.11	mg/Kg		04/19/23 16:22	04/20/23 15:24	1
Cadmium	ND		20.1	0.030	mg/Kg		04/19/23 16:22	04/20/23 15:24	1
Chromium	ND		50.2	0.20	mg/Kg		04/19/23 16:22	04/20/23 15:24	1
Lead	ND		100	0.24	mg/Kg		04/19/23 16:22	04/20/23 15:24	1
Selenium	ND		401	0.40	mg/Kg		04/19/23 16:22	04/20/23 15:24	1
Silver	0.209	J	60.2	0.20	mg/Kg		04/19/23 16:22	04/20/23 15:24	1

Lab Sample ID: LCSSRM 480-666061/2-A
Matrix: Solid
Analysis Batch: 666242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666061

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	100.3	J	mg/Kg		77.7	60.9 - 113.2
Barium	169	144.6		mg/Kg		85.6	68.6 - 114.2
Cadmium	227	172.2		mg/Kg		75.8	64.8 - 110.1
Chromium	115	89.14		mg/Kg		77.5	62.4 - 115.7
Lead	74.8	79.46	J	mg/Kg		106.2	67.0 - 128.9
Selenium	246	185.9	J	mg/Kg		75.6	60.2 - 114.6
Silver	87.5	70.62		mg/Kg		80.7	63.7 - 115.4

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-665710/1-A
Matrix: Solid
Analysis Batch: 665823

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 665710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		04/18/23 09:48	04/18/23 13:01	1

Lab Sample ID: LCSSRM 480-665710/2-A ^10
Matrix: Solid
Analysis Batch: 665823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 665710

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	20.7	12.37		mg/Kg		59.8	38.3 - 110.1

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-206997-2
Project/Site: Benchmark- Bailey & Kensington

Metals

Prep Batch: 665710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206997-9	TT-4 0-1FT	Total/NA	Solid	7471B	
MB 480-665710/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-665710/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 665823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206997-9	TT-4 0-1FT	Total/NA	Solid	7471B	665710
MB 480-665710/1-A	Method Blank	Total/NA	Solid	7471B	665710
LCSSRM 480-665710/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	665710

Prep Batch: 666061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206997-9	TT-4 0-1FT	Total/NA	Solid	3050B	
MB 480-666061/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-666061/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 666242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206997-9	TT-4 0-1FT	Total/NA	Solid	6010C	666061
MB 480-666061/1-A	Method Blank	Total/NA	Solid	6010C	666061
LCSSRM 480-666061/2-A	Lab Control Sample	Total/NA	Solid	6010C	666061

General Chemistry

Analysis Batch: 662080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206997-9	TT-4 0-1FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-206997-2

Client Sample ID: TT-4 0-1FT

Lab Sample ID: 480-206997-9

Date Collected: 03/16/23 11:05

Matrix: Solid

Date Received: 03/16/23 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	662080	RJS	EET BUF	03/20/23 12:37

Client Sample ID: TT-4 0-1FT

Lab Sample ID: 480-206997-9

Date Collected: 03/16/23 11:05

Matrix: Solid

Date Received: 03/16/23 14:45

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			666061	NVK	EET BUF	04/19/23 16:22
Total/NA	Analysis	6010C		1	666242	BMB	EET BUF	04/20/23 15:32
Total/NA	Prep	7471B			665710	NVK	EET BUF	04/18/23 09:48
Total/NA	Analysis	7471B		1	665823	NVK	EET BUF	04/18/23 13:04

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
Job ID: 480-206997-2
Project/Site: Benchmark- Bailey & Kensington

Laboratory: Eurofins Buffalo

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

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

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

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

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-206997-2

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
3050B	Preparation, Metals	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: Benchmark- Bailey & Kensington

Job ID: 480-206997-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-206997-9	TT-4 0-1FT	Solid	03/16/23 11:05	03/16/23 14:45

Chain of Custody Record 599215

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Chris Berry	Site Contact: Mike Sroka	Date: 3/16/23	COC No:
Company Name: Benchmark EES	Tel/Email: 716-713-3937	Lab Contact: Billy Fisher	Carrier:	____ of ____ COCs
Address: 2558 Hamburg TPke	Analysis Turnaround Time			Sampler:
City/State/Zip: Lackawanna NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-713-3937	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Bailey Pennsylvania	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# B0665-022-001	☐ 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)	TCL VOC's	TCL SVOC's (PAH's)	RCRA Metals	Sample Specific Notes:
TT-1 0-2Ft	3/16/23	9:00	G	Soil	2				X	X	
TT-2 4-5 Ft		10:00			2				X	X	
TT-3 2-3Ft		10:30			2				X	X	
TT-4 3-4Ft		11:00			2				X	X	
TT-6 0-1Ft		12:00			2				X	X	
TT-7 0-1Ft		12:30			2				X	X	
TT-9 0.75-1.5Ft		13:45			2				X	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

4,9 # ICE

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Benchmark	3/16/23 14:45	Received by:	TAS	3/16/23 1445
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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4/21/2023

Chain of Custody Record

599205 eurofins | Environment Testing TestAmerica

Address: ______________________

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact		Project Manager: Chris Byrs		Site Contact: Nick Scrai	Date: 3/16/23	COC No:
Company Name: Benchmark EES		Tel/Email: 716-713-3437		Lab Contact: Brian FJ	Carrier:	___ of ___ COCs
Address: 2558 Hamburg Tpke		Analysis Turnaround Time				Sampler:
City/State/Zip: Buffalo NY 14218		☐ CALENDAR DAYS ☐ WORKING DAYS				For Lab Use Only:
Phone: 716-713-3437		TAT if different from Below ____				Walk-in Client:
Fax:		☐ 2 weeks				Lab Sampling:
Project Name: Bailey's Kensington		☐ 1 week				
Site:		☐ 2 days				Job / SDG No.:
P O # BOGES-022-001		☐ 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:
TT-3 1-2 Ft	3/16/23	10:35	G	Soil	2			Hold
TT-4 0-1 Ft	↓	11:05	↓	↓	↓			Hold
TT-5 0.25-0.75 Ft	↓	11:45	↓	↓	↓			Hold
TT-8 0.25-0.75 Ft	↓	13:15	↓	↓	↓			Hold
TT-2 0-2 Ft	↓	16:15	↓	↓	↓			Hold

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ______ Months

Special Instructions/QC Requirements & Comments:

4.9 #1 ICE

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ______ Corr'd: ______ | Therm ID No.: ______

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BM/TK	3/16/23 14:45	[signature]	TAB	3/16/23 14:45
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-206997-2

Login Number: 206997
List Number: 1
Creator: Sabuda, Brendan D

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	4.9 #1 ICE
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.	False	REFER TO NCM
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Christopher Z Boron
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Generated 4/11/2023 5:24:27 PM

JOB DESCRIPTION

Benchmark- Bailey & Kensington

JOB NUMBER

480-207546-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

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

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

Authorization

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4/11/2023 5:24:27 PM

Authorized for release by
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-207546-1
Project/Site: Benchmark- Bailey & Kensington

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-207546-1

Job ID: 480-207546-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-207546-1

Receipt
The samples were received on 3/16/2023 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to color, appearance, and viscosity: TT-8 0.25-0.75FT (480-207546-3). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: TT-8 0.25-0.75FT (480-207546-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following sample(s) was prepared outside of preparation holding time due to sample being activated out of hold time. TT-8 0.25-0.75FT (480-207546-3).

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

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

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

Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-207546-1

Client Sample ID: TT-4 3-4FT — Lab Sample ID: 480-207546-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9	J	261	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	115		65.3	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.29	J	26.1	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	22.7	J	65.3	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	67.5	J	131	0.31	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.0	J	522	0.52	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.067		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TT-3 1-2FT — Lab Sample ID: 480-207546-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0	J	230	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	135		57.6	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.37	J	23.0	0.035	mg/Kg	1	☼	6010C	Total/NA
Chromium	26.6	J	57.6	0.23	mg/Kg	1	☼	6010C	Total/NA
Lead	140		115	0.28	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.081		0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TT-8 0.25-0.75FT — Lab Sample ID: 480-207546-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	1900	J H	3500	350	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	3400	J H	3500	520	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	4700	H	3500	560	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	3900	H	3500	380	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	2000	J H	3500	460	ug/Kg	20	☼	8270D	Total/NA
Chrysene	2900	J H	3500	790	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	770	J H	3500	630	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	4400	H	3500	380	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3000	J H	3500	440	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	940	J H	3500	520	ug/Kg	20	☼	8270D	Total/NA
Pyrene	2900	J H	3500	420	ug/Kg	20	☼	8270D	Total/NA
Arsenic	1.9	J	192	0.38	mg/Kg	1	☼	6010C	Total/NA
Barium	11.1	J	48.0	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.097	J	19.2	0.029	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.7	J	48.0	0.19	mg/Kg	1	☼	6010C	Total/NA
Lead	12.9	J	96.0	0.23	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.022		0.015	0.0034	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-207546-1

Client Sample ID: TT-4 3-4FT
Date Collected: 03/16/23 11:00
Date Received: 03/16/23 14:45

Lab Sample ID: 480-207546-1
Matrix: Solid
Percent Solids: 76.3

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9	J	261	0.52	mg/Kg	☼	04/06/23 14:44	04/07/23 20:14	1
Barium	115		65.3	0.14	mg/Kg	☼	04/06/23 14:44	04/07/23 20:14	1
Cadmium	0.29	J	26.1	0.039	mg/Kg	☼	04/06/23 14:44	04/07/23 20:14	1
Chromium	22.7	J	65.3	0.26	mg/Kg	☼	04/06/23 14:44	04/07/23 20:14	1
Lead	67.5	J	131	0.31	mg/Kg	☼	04/06/23 14:44	04/07/23 20:14	1
Selenium	1.0	J	522	0.52	mg/Kg	☼	04/06/23 14:44	04/07/23 20:14	1
Silver	ND		78.3	0.26	mg/Kg	☼	04/10/23 14:43	04/11/23 13:00	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	☼	04/06/23 12:50	04/07/23 11:25	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-207546-1

Client Sample ID: TT-3 1-2FT
Date Collected: 03/16/23 10:35
Date Received: 03/16/23 14:45

Lab Sample ID: 480-207546-2
Matrix: Solid
Percent Solids: 83.5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0	J	230	0.46	mg/Kg	☼	04/06/23 14:44	04/07/23 20:30	1
Barium	135		57.6	0.13	mg/Kg	☼	04/06/23 14:44	04/07/23 20:30	1
Cadmium	0.37	J	23.0	0.035	mg/Kg	☼	04/06/23 14:44	04/07/23 20:30	1
Chromium	26.6	J	57.6	0.23	mg/Kg	☼	04/06/23 14:44	04/07/23 20:30	1
Lead	140		115	0.28	mg/Kg	☼	04/06/23 14:44	04/07/23 20:30	1
Selenium	ND		460	0.46	mg/Kg	☼	04/06/23 14:44	04/07/23 20:30	1
Silver	ND		69.1	0.23	mg/Kg	☼	04/10/23 14:43	04/11/23 13:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.024	0.0054	mg/Kg	☼	04/06/23 12:50	04/07/23 11:27	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-207546-1

Client Sample ID: TT-8 0.25-0.75FT
Date Collected: 03/16/23 13:15
Date Received: 03/16/23 14:45

Lab Sample ID: 480-207546-3
Matrix: Solid
Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	3500	520	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Acenaphthylene	ND	H	3500	460	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Anthracene	ND	H	3500	880	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Benzo[a]anthracene	**1900**	**J H**	3500	350	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Benzo[a]pyrene	**3400**	**J H**	3500	520	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Benzo[b]fluoranthene	**4700**	**H**	3500	560	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Benzo[g,h,i]perylene	**3900**	**H**	3500	380	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Benzo[k]fluoranthene	**2000**	**J H**	3500	460	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Chrysene	**2900**	**J H**	3500	790	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Dibenz(a,h)anthracene	**770**	**J H**	3500	630	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Fluoranthene	**4400**	**H**	3500	380	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Fluorene	ND	H	3500	420	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Indeno[1,2,3-cd]pyrene	**3000**	**J H**	3500	440	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Naphthalene	ND	H	3500	460	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Phenanthrene	**940**	**J H**	3500	520	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20
Pyrene	**2900**	**J H**	3500	420	ug/Kg	☼	04/06/23 08:34	04/07/23 18:59	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*60 - 120*	*04/06/23 08:34*	*04/07/23 18:59*	*20*
Nitrobenzene-d5 (Surr)	*62*		*53 - 120*	*04/06/23 08:34*	*04/07/23 18:59*	*20*
p-Terphenyl-d14 (Surr)	*56*	*S1-*	*79 - 130*	*04/06/23 08:34*	*04/07/23 18:59*	*20*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.9**	**J**	192	0.38	mg/Kg	☼	04/06/23 14:44	04/07/23 20:34	1
Barium	**11.1**	**J**	48.0	0.11	mg/Kg	☼	04/06/23 14:44	04/07/23 20:34	1
Cadmium	**0.097**	**J**	19.2	0.029	mg/Kg	☼	04/06/23 14:44	04/07/23 20:34	1
Chromium	**5.7**	**J**	48.0	0.19	mg/Kg	☼	04/06/23 14:44	04/07/23 20:34	1
Lead	**12.9**	**J**	96.0	0.23	mg/Kg	☼	04/06/23 14:44	04/07/23 20:34	1
Selenium	ND		384	0.38	mg/Kg	☼	04/06/23 14:44	04/07/23 20:34	1
Silver	ND		62.5	0.21	mg/Kg	☼	04/10/23 14:43	04/11/23 15:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.015	0.0034	mg/Kg	☼	04/06/23 12:50	04/07/23 11:28	1

Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-207546-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(60-120)	(53-120)	(79-130)						
480-207546-3	TT-8 0.25-0.75FT	63	62	56 S1-						
LCS 480-664121/2-A	Lab Control Sample	88	76	98						
MB 480-664121/1-A	Method Blank	81	76	91						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 480-664121/1-A
Matrix: Solid
Analysis Batch: 664319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664121

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	25	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Acenaphthylene	ND		170	22	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Anthracene	ND		170	41	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Benzo[a]anthracene	ND		170	17	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Benzo[a]pyrene	ND		170	25	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Chrysene	ND		170	37	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Fluoranthene	ND		170	18	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Fluorene	ND		170	20	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Naphthalene	ND		170	22	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Phenanthrene	ND		170	25	ug/Kg		04/06/23 07:15	04/07/23 12:18	1
Pyrene	ND		170	20	ug/Kg		04/06/23 07:15	04/07/23 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*60 - 120*	*04/06/23 07:15*	*04/07/23 12:18*	*1*
Nitrobenzene-d5 (Surr)	*76*		*53 - 120*	*04/06/23 07:15*	*04/07/23 12:18*	*1*
p-Terphenyl-d14 (Surr)	*91*		*79 - 130*	*04/06/23 07:15*	*04/07/23 12:18*	*1*

Lab Sample ID: LCS 480-664121/2-A
Matrix: Solid
Analysis Batch: 664319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664121

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1650	1540		ug/Kg		93	62 - 120
Acenaphthylene	1650	1570		ug/Kg		95	58 - 121
Anthracene	1650	1650		ug/Kg		100	62 - 120
Benzo[a]anthracene	1650	1630		ug/Kg		99	65 - 120
Benzo[a]pyrene	1650	1610		ug/Kg		98	64 - 120
Benzo[b]fluoranthene	1650	1550		ug/Kg		94	64 - 120
Benzo[g,h,i]perylene	1650	1780		ug/Kg		108	45 - 145
Benzo[k]fluoranthene	1650	1730		ug/Kg		105	65 - 120
Chrysene	1650	1460		ug/Kg		88	64 - 120
Dibenz(a,h)anthracene	1650	1760		ug/Kg		107	54 - 132
Fluoranthene	1650	1540		ug/Kg		93	62 - 120
Fluorene	1650	1540		ug/Kg		93	63 - 120
Indeno[1,2,3-cd]pyrene	1650	1800		ug/Kg		109	56 - 134
Naphthalene	1650	1450		ug/Kg		88	55 - 120
Phenanthrene	1650	1520		ug/Kg		92	60 - 120
Pyrene	1650	1740		ug/Kg		105	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*88*		*60 - 120*
Nitrobenzene-d5 (Surr)	*76*		*53 - 120*
p-Terphenyl-d14 (Surr)	*98*		*79 - 130*

Method: 6010C - Metals (ICP)

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

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		194	0.39	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Barium	ND		48.5	0.11	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Cadmium	ND		19.4	0.029	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Chromium	ND		48.5	0.19	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Lead	ND		97.0	0.23	mg/Kg		04/06/23 14:44	04/07/23 18:42	1
Selenium	ND		388	0.39	mg/Kg		04/06/23 14:44	04/07/23 18:42	1

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

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	103.5	J	mg/Kg		80.2	60.9 - 113.2
Barium	169	151.2		mg/Kg		89.5	68.6 - 114.2
Cadmium	227	177.5		mg/Kg		78.2	64.8 - 110.1
Chromium	115	93.90		mg/Kg		81.7	62.4 - 115.7
Lead	74.8	82.99	J	mg/Kg		110.9	67.0 - 128.9
Selenium	246	190.6	J	mg/Kg		77.5	60.2 - 114.6

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

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		60.4	0.20	mg/Kg		04/10/23 14:43	04/11/23 12:33	1

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

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

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	87.5	59.93		mg/Kg		68.5	63.7 - 115.4	3	20

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

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Silver	87.5	58.09	J	mg/Kg		66.4	63.7 - 115.4

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-207546-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-664192/1-A
Matrix: Solid
Analysis Batch: 664358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.014	0.0032	mg/Kg		04/06/23 12:50	04/07/23 10:55	1

Lab Sample ID: LCSSRM 480-664192/2-A ^10
Matrix: Solid
Analysis Batch: 664358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664192

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	20.7	12.31		mg/Kg		59.4	38.3 - 110.1

GC/MS Semi VOA

Prep Batch: 664121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-3	TT-8 0.25-0.75FT	Total/NA	Solid	3550C	
MB 480-664121/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-664121/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 664319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-3	TT-8 0.25-0.75FT	Total/NA	Solid	8270D	664121
MB 480-664121/1-A	Method Blank	Total/NA	Solid	8270D	664121
LCS 480-664121/2-A	Lab Control Sample	Total/NA	Solid	8270D	664121

Metals

Prep Batch: 664187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-1	TT-4 3-4FT	Total/NA	Solid	3050B	
480-207546-2	TT-3 1-2FT	Total/NA	Solid	3050B	
480-207546-3	TT-8 0.25-0.75FT	Total/NA	Solid	3050B	
MB 480-664187/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-664187/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 664192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-1	TT-4 3-4FT	Total/NA	Solid	7471B	
480-207546-2	TT-3 1-2FT	Total/NA	Solid	7471B	
480-207546-3	TT-8 0.25-0.75FT	Total/NA	Solid	7471B	
MB 480-664192/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-664192/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 664358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-1	TT-4 3-4FT	Total/NA	Solid	7471B	664192
480-207546-2	TT-3 1-2FT	Total/NA	Solid	7471B	664192
480-207546-3	TT-8 0.25-0.75FT	Total/NA	Solid	7471B	664192
MB 480-664192/1-A	Method Blank	Total/NA	Solid	7471B	664192
LCSSRM 480-664192/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	664192

Analysis Batch: 664493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-1	TT-4 3-4FT	Total/NA	Solid	6010C	664187
480-207546-2	TT-3 1-2FT	Total/NA	Solid	6010C	664187
480-207546-3	TT-8 0.25-0.75FT	Total/NA	Solid	6010C	664187
MB 480-664187/1-A	Method Blank	Total/NA	Solid	6010C	664187
LCSSRM 480-664187/2-A	Lab Control Sample	Total/NA	Solid	6010C	664187

Prep Batch: 664563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-1	TT-4 3-4FT	Total/NA	Solid	3050B	
480-207546-2	TT-3 1-2FT	Total/NA	Solid	3050B	
480-207546-3	TT-8 0.25-0.75FT	Total/NA	Solid	3050B	
MB 480-664563/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-664563/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 664563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 480-664563/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 664776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-1	TT-4 3-4FT	Total/NA	Solid	6010C	664563
480-207546-2	TT-3 1-2FT	Total/NA	Solid	6010C	664563
MB 480-664563/1-A	Method Blank	Total/NA	Solid	6010C	664563
LCDSRM 480-664563/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	664563
LCSSRM 480-664563/2-A	Lab Control Sample	Total/NA	Solid	6010C	664563

Analysis Batch: 664810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-3	TT-8 0.25-0.75FT	Total/NA	Solid	6010C	664563

General Chemistry

Analysis Batch: 664249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207546-1	TT-4 3-4FT	Total/NA	Solid	Moisture	
480-207546-2	TT-3 1-2FT	Total/NA	Solid	Moisture	
480-207546-3	TT-8 0.25-0.75FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-207546-1

Client Sample ID: TT-4 3-4FT

Lab Sample ID: 480-207546-1

Date Collected: 03/16/23 11:00

Matrix: Solid

Date Received: 03/16/23 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	664249	KER	EET BUF	04/06/23 16:20

Client Sample ID: TT-4 3-4FT

Lab Sample ID: 480-207546-1

Date Collected: 03/16/23 11:00

Matrix: Solid

Date Received: 03/16/23 14:45

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			664187	NVK	EET BUF	04/06/23 14:44
Total/NA	Analysis	6010C		1	664493	LMH	EET BUF	04/07/23 20:14
Total/NA	Prep	3050B			664563	VAK	EET BUF	04/10/23 14:43
Total/NA	Analysis	6010C		1	664776	LMH	EET BUF	04/11/23 13:00
Total/NA	Prep	7471B			664192	NVK	EET BUF	04/06/23 12:50
Total/NA	Analysis	7471B		1	664358	NVK	EET BUF	04/07/23 11:25

Client Sample ID: TT-3 1-2FT

Lab Sample ID: 480-207546-2

Date Collected: 03/16/23 10:35

Matrix: Solid

Date Received: 03/16/23 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	664249	KER	EET BUF	04/06/23 16:20

Client Sample ID: TT-3 1-2FT

Lab Sample ID: 480-207546-2

Date Collected: 03/16/23 10:35

Matrix: Solid

Date Received: 03/16/23 14:45

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			664187	NVK	EET BUF	04/06/23 14:44
Total/NA	Analysis	6010C		1	664493	LMH	EET BUF	04/07/23 20:30
Total/NA	Prep	3050B			664563	VAK	EET BUF	04/10/23 14:43
Total/NA	Analysis	6010C		1	664776	LMH	EET BUF	04/11/23 13:04
Total/NA	Prep	7471B			664192	NVK	EET BUF	04/06/23 12:50
Total/NA	Analysis	7471B		1	664358	NVK	EET BUF	04/07/23 11:27

Client Sample ID: TT-8 0.25-0.75FT

Lab Sample ID: 480-207546-3

Date Collected: 03/16/23 13:15

Matrix: Solid

Date Received: 03/16/23 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	664249	KER	EET BUF	04/06/23 16:20

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-207546-1
Project/Site: Benchmark- Bailey & Kensington

Client Sample ID: TT-8 0.25-0.75FT
Lab Sample ID: 480-207546-3
Date Collected: 03/16/23 13:15
Matrix: Solid
Date Received: 03/16/23 14:45
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			664121	SMP	EET BUF	04/06/23 08:34
Total/NA	Analysis	8270D		20	664319	JMM	EET BUF	04/07/23 18:59
Total/NA	Prep	3050B			664187	NVK	EET BUF	04/06/23 14:44
Total/NA	Analysis	6010C		1	664493	LMH	EET BUF	04/07/23 20:34
Total/NA	Prep	3050B			664563	VAK	EET BUF	04/10/23 14:43
Total/NA	Analysis	6010C		1	664810	LMH	EET BUF	04/11/23 15:31
Total/NA	Prep	7471B			664192	NVK	EET BUF	04/06/23 12:50
Total/NA	Analysis	7471B		1	664358	NVK	EET BUF	04/07/23 11:28

Laboratory References:

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

Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-207546-1
Project/Site: Benchmark- Bailey & Kensington

Laboratory: Eurofins Buffalo

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

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

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

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

Method Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-207546-1
Project/Site: Benchmark- Bailey & Kensington

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: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark- Bailey & Kensington

Job ID: 480-207546-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207546-1	TT-4 3-4FT	Solid	03/16/23 11:00	03/16/23 14:45
480-207546-2	TT-3 1-2FT	Solid	03/16/23 10:35	03/16/23 14:45
480-207546-3	TT-8 0.25-0.75FT	Solid	03/16/23 13:15	03/16/23 14:45

Chain of Custody Record

599215 eurofins | Environment Testing TestAmerica

Address: ______________________

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact			
Company Name: Benchmark EES	Project Manager: Chris Boron	Site Contact: Mike Lesakowski	Date: 3/16/23
Address: 2558 Hamburg Tpk	Tel/Email: 716-713-3437	Lab Contact: Brian Fischer	Carrier:
City/State/Zip: Buffalo NY 14218	Analysis Turnaround Time		
Phone: 716-713-3437	☐ CALENDAR DAYS ☐ WORKING DAYS		
Fax:	TAT if different from Below ______		
Project Name: Bailey / Ensminger	☐ 2 weeks		
Site:	☐ 1 week		
PO# B0665-023-001	☐ 2 days		
	☐ 1 day		

COC No: ______ of ______ COCs

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.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL VOC's	TCL SVOC's (PAHs)	RCRA Metals	Sample Specific Notes:
TT-1 0-2Ft	3/16/23	9:00	G	Soil	2				X	X	
TT-2 4-5Ft	↓	10:00	↓	↓	2				X	X	
TT-3 2-3Ft	↓	10:30	↓	↓	2				X	X	
TT-4 3-4Ft	↓	11:00	↓	↓	2				X	X	
TT-6 0-1Ft	↓	12:00	↓	↓	2				X	X	
TT-7 0-1Ft	↓	12:30	↓	↓	2				X	X	
TT-9 0.75-1.5Ft	↓	13:45	↓	↓	2				X	X	

480-207546 Chain of Custody

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.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Special Instructions/QC Requirements & Comments:

4.9 #1ICE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ______ Corr'd: ______		Therm ID No.: ______
Relinquished by: [signature]	Company: BMTK	Date/Time: 3/16/23 14:45	Received by: [signature]	Company: TAS	Date/Time: 3/16/23 1445
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Address: ____________

Chain of Custody Record

599205 eurofins | Environment Testing TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact			
Company Name: BenchMark EES	Project Manager: Chris Burg	Site Contact: Nick Suraci	Date: 3/16/23
Address: 2558 Hamburg Tpke	Tel/Email: 716-713-3437	Lab Contact: Brian Fischer	Carrier:
City/State/Zip: Buffalo NY 14218	Analysis Turnaround Time		
Phone: 716-713-3437	☐ CALENDAR DAYS ☐ WORKING DAYS		
Fax:	TAT if different from Below ____		
Project Name: Bailey : Kensington	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Site:			
PO # B0085-022-001			

COC No: ____ of ____ COCs

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.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Sample Specific Notes:
TT-3 1-2 Ft	3/16/23	10:35	G	Soil	2			Hold
TT-4 0-1 Ft	↓	11:05	↓	↓	↓			Hold
TT-5 0.25-0.75 Ft	↓	11:45	↓	↓	↓			Hold
TT-8 0.25-0.75 Ft	↓	13:15	↓	↓	↓			Hold
TT-2 0-2 Ft	↓	10:15	↓	↓	↓			Hold

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.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Special Instructions/QC Requirements & Comments:

4.9 #1 ICE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.:
Relinquished by: [signature]	Company: BM/TK	Date/Time: 3/16/23 14:45	Received by: [signature]	Company: TAB	Date/Time: 3/16/23 14:45
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-207546-1

Login Number: 207546

List Source: Eurofins Buffalo

List Number: 1

Creator: Kolb, Chris M

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.	True	