March 18, 2021

Mr. Frank Chinnici
Legacy Development
250 Ramsdell Avenue
Buffalo, New York 14216

Re: Phase II Environmental Investigation
Unaddressed Parcels off Grand Island Boulevard and Baseline Road
Grand Island, New York

Dear Mr. Chinnici:

TurnKey Environmental Restoration, LLC (TurnKey) has prepared this report to present the results of a Phase II Environmental Investigation performed at the following unaddressed parcels located in the Town of Grand Island, Erie County, New York (Site).

Parcel No.	Parcel Address	Size (acres)	Tax ID No.	Current Owner	Current Use
1	0 Baseline Road	8.01	37.03-1-37.11	Randon P. Hillock	Vacant underutilized land.
2	0 Grand Island Boulevard	13.37	37.03-1-60	John R. Simon Enterprises Ltd.	
3	0 Grand Island Boulevard	2.94	37.03-1-21.1	1958 Grand Island Boulevard LLC	

A Site Location and Vicinity Map is provided as Figure 1.

CURRENT SITE CONDITIONS AND BACKGROUND

The 24.3-acre Site consisting of three contiguous parcels is currently vacant and underutilized land. Historic aerial photographs indicate unknown disturbances across the Site between 1958 and 2015. Additional information relative to the history of the Site, based on historic aerial photographs reviewed online at historicaerials.com, is provided in the table below:

Aerial Year	Observations
1958, 1963, 1966,	The Site appears to be mostly vacant undeveloped land with disturbances noted on the northern, central, and western portions of the Site.
1972, 1995	The Site appears similar to above with disturbances noted on the northern portion of the Site as well as the central and southeast portions of the Site.
2002	Disturbances remain throughout the Site.
2005 to 2017	The Site appears generally similar to above with disturbances across the Site. However, an apparent pond is present on the northwestern portion of the Site in the area of a former disturbance.

INVESTIGATION ACTIVITIES

On February 18, 2021 and March 4, 2021, sixteen test pits identified as TP-1 through TP-16 were completed across the Site using a mini-excavator. Each test pit was completed to the maximum reach of the excavator at approximately six feet below ground surface (fbgs) or the

depth of groundwater infiltration noted at depths between three fbgs and five fbgs at test pits TP-3, TP-5,TP-13, TP-14, TP-15, and TP-16. Test pit locations are shown on Figure 2.

The soil/fill samples from each test pit were screened for volatile organics using a MiniRae 3000 Photoionization Detector (PID), visual characteristics for each sample were classified using the ASTM D2488 Visual-Manual Procedure Description, and olfactory observations, if any, were noted.

Thirteen subsurface soil/fill samples were submitted to the laboratory for analysis of polycyclic aromatic hydrocarbons (PAHs) and Resource Conservation and Recovery Act (RCRA) metals. Specifically, subsurface samples were collected from the soil/fill layers at TP-1 (0-0.5 fbgs), TP-2 (0-1 fbgs), TP-3 (1-1.5 fbgs), TP-5 (1-3 fbgs), TP-6 (0-2 fbgs), TP-7 (0-2 fbgs), TP-8 (0-2 fbgs), TP-9 (0.5-1.5 fbgs), TP-10 (0-2 fbgs), TP-12 (0-1 fbgs), TP-14 (2-3 fbgs), TP-15 (2-3 fbgs), TP-16 (0-2 fbgs).

All samples were collected in laboratory provided sample bottles and were cooled to 4^0 C prior to transport.

FIELD OBSERVATIONS AND FINDINGS

In general, fill material was identified at 12 of 16 investigation locations. Specifically, fill material consisting of sand, silty sand or gravel mixed with coal, graphite, cinders, ash and/or fragments of wood, concrete, glass, brick or metal was observed from the ground surface to depths up to 3 fbgs. The fill material is underlain by native soils consisting of sandy lean clay to a depth of at least 6 fbgs.

Test pit details with additional information relative to lithology and field observations are included in Table 2. Photographs taken during the work are included in Appendix A.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical reports are provided in Appendix B. Analytical results were compared to 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives (USCOs), Restricted-Residential Soil Cleanup Objectives (RRSCOs), Commercial SCOs (CSCOs), and Industrial SCOs (ISCOs). We note that as the Site is slated for residential redevelopment, RRSCOs are the most applicable SCOs for this end use.

As summarized on Table 1 and Figure 3, one or more individual PAHs exceeded their respective ISCOs at three soil/fill samples collected from Parcels 1 and 2 at TP-6 (0-2 fbgs), TP-7 (0-2 fbgs), and TP-10 (0-2 fbgs). The highest PAH concentrations were identified in the fill material at TP-7 on Parcel 2 from 0-2 fbgs.

Regarding metals, arsenic exceeded its ISCO of 16 mg/kg at Parcel 3 at TP-15 (29 milligrams per kilogram, mg/kg) and TP-16 (30.2 mg/kg). Barium exceeded its CSCO of 400 mg/kg at Parcel 3 at TP-14 (776 mg/kg). Cadmium and mercury exceeded their respective CSCOs at Parcel 1 at TP-10. In addition, lead exceeded its RRSCO at TP-10.

In summary, sampling indicates PAHs and/or metals at concentrations exceeding RRSCOs, CSCOs and/or ISCOs at samples from each of the three parcels.

CONCLUSIONS

The Site soil/fill is impacted by PAHs and/or metals with concentrations exceeding Part 375 RRSCOs (the applicable SCO for the Site based on the planned redevelopment as a residential development) in soil/fill samples collected across the Site. Based on this information, as urban fill was observed by TurnKey at a majority of the investigation locations, it appears that PAH- and/or metals-impacted soil/fill is present across the Site.

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, PAHs- and metals-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.

DECLARATIONS/LIMITATIONS

This report has been prepared for the exclusive use of Legacy Development. The contents of this report are limited to information available at the time of the subject site investigation. Data provided by others as referenced herein is assumed to be accurate and reliable. The findings herein may be relied upon only at the discretion of Legacy Development and are limited to the terms and conditions identified in the agreement between TurnKey and its client. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

Please contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC

Michael A. Lesakowski
Principal

Bryan W. Mayback
Project Manager

TABLES

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS

GRAND ISLAND SITE
GRAND ISLAND, NEW YORK

PARAMETER [1]	Unrestricted Use SCOs[2]	Restricted Residential Use SCOs[2]	Commercial Use SCOs[2]	Industrial Use SCOs[2]	SAMPLE LOCATION (DEPTH)												
					TP-1 (0-0.5')	TP-2 (0-1')	TP-3 (1-1.5')	TP-5 (1-3')	TP-6 (0-2')	TP-7 (0-2')	TP-8 (0-2')	TP-9 (0.5-1.5')	TP-10 (0-2')	TP-12 (0-1')	TP-14 (2-3')	TP-15 (2-3')	TP-16 (0-2')
Sample Date					02/18/2021							03/04/2021					
Polyaromatic Hydrocarbons (PAHs) - mg/Kg [3]																	
Acenaphthene	20	100	500	1000	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	100	500	1000	0.7 J	0.056 J	0.87 J	1 J	5	36	ND	1.2	11	1.5	ND	ND	ND
Naphthalene	12	100	500	1000	ND	ND	ND	ND	ND	0.85 J	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1	1	5.6	11	0.34 J	ND	0.41 J	0.52 J	**2.3**	**11**	ND	0.51	**5.5**	0.7	ND	ND	ND
Benzo(a)pyrene	1	1	1	1.1	0.33 J	ND	0.43 J	0.49 J	**2.2**	**11**	ND	0.56	**6.2**	0.75	ND	ND	ND
Benzo(b)fluoranthene	1	1	5.6	11	0.36 J	ND	0.52 J	0.52 J	**2.5**	**15**	ND	0.61	**7**	0.8	ND	ND	ND
Benzo(k)fluoranthene	0.8	3.9	56	110	0.17 J	ND	0.2 J	0.29 J	**1.2**	**6.9**	ND	0.31	4.2 J	0.4	ND	ND	ND
Chrysene	1	3.9	56	110	0.28 J	ND	0.33 J	0.39 J	**2.1**	**15**	ND	0.49	**5.7**	0.69	ND	ND	ND
Acenaphthylene	100	100	500	1000	ND	ND	ND	ND	0.73 J	0.25 J	ND	0.15 J	ND	0.22 J	ND	ND	ND
Anthracene	100	100	500	1000	ND	ND	ND	ND	0.62 J	2.2	ND	0.14 J	1.4 J	0.19 J	ND	ND	ND
Benzo(ghi)perylene	100	100	500	1000	0.2 J	ND	0.28 J	0.32 J	1.3	6.3	ND	0.36	4.9	0.45	ND	ND	ND
Fluorene	30	100	500	1000	ND	ND	ND	ND	0.16 J	2.3	ND	0.056 J	ND	0.077 J	ND	ND	ND
Phenanthrene	100	100	500	1000	0.41 J	ND	0.53 J	0.64 J	2	29	ND	ND	5	0.72	ND	ND	ND
Dibenzo(a,h)anthracene	0.33	0.33	0.56	1.1	ND	ND	ND	ND	**0.41 J**	**2.1**	ND	0.095 J	**1.6 J**	0.15 J	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	0.18 J	ND	0.25 J	0.3 J	**1.2**	**6.4**	ND	ND	**4.5 J**	0.43	ND	ND	ND
Pyrene	100	100	500	1000	0.6 J	0.041 J	0.75 J	0.88 J	4.1	26	ND	ND	9.7	1.2	ND	ND	ND
Metals - mg/Kg																	
Arsenic	13	16	16	16	5.3	5.2	7	7	6.1	4.1	3.4	11.7	10.6	13	**15.3**	**29**	**30.2**
Barium	350	400	400	10000	103 B F1	124 B	123 B	172 B	86.4 B	131 B	69.5 B	127	184	104	**776**	230	**394**
Cadmium	2.5	4.3	9.3	60	0.57 B	0.42 B	0.74 B	0.8 B	1.3 B	0.39 B	0.4 B	0.81	**56.8**	1	0.35 J	0.4	0.28
Chromium	31	180	1500	6800	23.5	30.8	**33.7**	**60.7**	27.6	**60.7**	14.9	**33.6**	**68.9**	**42.6**	**154**	**30.1**	**35.7**
Lead	64	400	1000	3900	**72.7 F1**	34.7	**100**	**144**	**139**	62.8	55.1	54.6	**815**	**122**	10.1	11.7	10.8
Mercury	0.18	0.81	2.8	5.7	0.12	0.093	**0.22**	0.099	**0.19**	0.042	0.063	0.11	**4.4**	**0.21**	0.027	**0.2**	0.077
Selenium	3.9	180	1500	6800	ND	ND	1 J	0.74 J	0.57 J	0.64 J	ND	0.91 J	1.7	0.7 J	ND	1.1 J	0.81 J
Silver	2	180	1500	6800	ND	ND	0.37 J	0.4 J	ND	0.3 J	0.25 J	ND	**3.5**	ND	ND	ND	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.
B = Analyte was detected in associated method blank.

Bold	: Results exceed Part 375 Unrestricted Use Soil Cleanup Objectives
Bold	: Results exceed Part 375 Restricted Residential Use Soil Cleanup Objectives
Bold	: Results exceed Part 375 Commercial Use Soil Cleanup Objectives
Bold	: Results exceed Part 375 Industrial Use Soil Cleanup Objectives

TABLE 2

SUMMARY OF SUBSURFACE FIELD OBSERVATIONS
PHASE II ENVIRONMENTAL INVESTIGATION REPORT
GRAND ISLAND SITE
GRAND ISLAND, NEW YORK

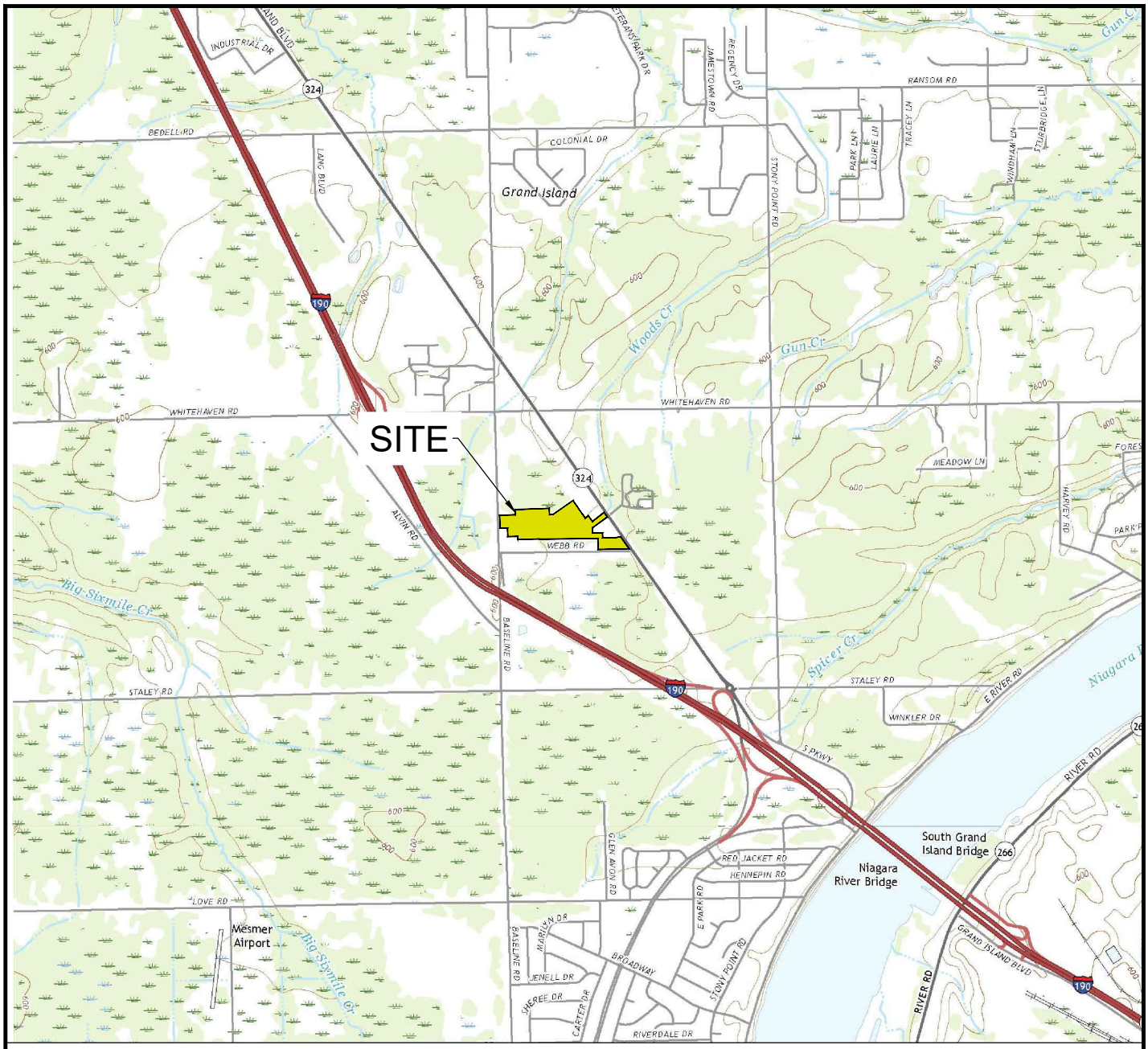
Location	Date	Parcel	Fill Present	Odors	Water Present	Depth of Test Pit (fbgs)	Thickness of Fill (ft)	Length of Test Pits (ft)	Test Pit Width (ft)	PID Measurements	Sample Depth (ft)	Depth (fbgs) and Soil Description
TP-1	02/18/21	37.02-137.11	Yes	No	No	5	8"	63	2	0	0-0.6 ft	**0 to 8 in: FILL** - Dark brown, moist, mostly silty sand, few brick, few cinders, medium dense
										0		**8 In to 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, with some fine sand, very stiff.
TP-2	02/18/21	37.02-137.11	No	No	No	6	N/a	60	2	0	0-1 ft	**0 to 1 ft: SILTY SAND** - Brown, moist, mostly fine sand, some silt, medium dense, no odors
										0		**1 to 6 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, with some fine sand, very stiff
TP-3	02/18/21	37.02-137.11	Yes	No	Yes	6	1.5	30	2	0		**0 to 1 ft: SILTY SAND** - Brown, moist, mostly fine sand, some silt, medium dense, no odors
										0	1-1.5 ft	**1 to 1.5 ft: SILTY SAND WITH FILL** - Black, wet, mostly organics (wood, peat) some silty sand, medium dense, no odors, water rushing in
										0		**1.5 to 6 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, with some fine sand, very stiff
TP-4	2/18/2021	37.03-1-60	No	No	No	5	N/a	40	2	0		**0 to 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, with some fine sand, very stiff
TP-5	02/18/21	37.03-1-60	Yes	No	Yes	4	3	50	2	0		**0 - 1 ft: REWORKED SANDY LEAN CLAY** - Dark brown, moist, mostly silt, some fine sand, with little clay, trace fine gravel.
										0		**1 to 3 ft. FILL** - Black/brown, moist, mostly fill (wood, brick, cinders, glass, ash), water rushing in at 3 feet, loose when disturbed
										0		**3 to 4 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, with some fine sand, very stiff
TP-6	02/18/21	37.03-1-60	Yes	No	No	5	3	25	2	0	1-3 ft	**0 to 3 ft: FILL** - Dark brown, moist, mostly silty sand, some fill (coal, brick, graphite, wood), medium dense
										0		**3 to 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, with some fine sand, very stiff
TP-7	02/18/21	37.03-1-60	Yes	No	No	5	2	35	2	0	0-2 ft	**0 to 2 ft: FILL** - Grey/brown, moist, mostly fine sand, some fill (concrete, brick, asphalt, wood), medium dense, no odors
										0		**2 to 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, with some fine sand, very stiff
TP-8	02/18/21	37.03-1-60	Yes	No	No	5	2	35	2	0	0-2 ft	**0 to 2 ft: FILL** - Grey/brown, moist, mostly fine sand, some fill (concrete, brick, asphalt, wood, metal, cinders), medium dense, no odors
										0		**2 to 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, with some fine sand, very stiff
TP-9	03/04/21	37.02-137.11	Yes	No	Yes	5	2	30	2	0		**0 - 6 in: REWORKED SANDY LEAN CLAY WITH GRAVEL** - Reddish brown, moist, mostly clay with some fine sand and gravel, stiff
										0	0.5-1.5 ft	**0.5 to 1.5 ft FILL** - Brown/dark brown, mostly silty sand, some fill (slag, brick, cinders, coal), loose when disturbed
										0		**1.5 - 5 ft: SANDY LEAN CLAY** - reddish brown, Wet water rushing into test pit, mostly clay, some fine sand, stiff.
TP-10	03/04/21	37.02-137.11	Yes	No	No	5	2	30	2	0	0-2 ft	**0 to 2 ft: FILL**- Mostly subangular gravel, some fill (brick, wood, concrete, cinders, green and blue gravel, loose when disturbed
										0		**2- 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, some fine sand, stiff.
TP-11	03/04/21	37.03-1-60	Yes	No	No	6	6	25	2	0		**0 to 6 ft: REWORKED SOILS**- Black/ brown, moist, mixture of silty sand and sandy lean clay with few fill (brick, cinders), stiff
TP-12	03/04/21	37.03-1-60	Yes	No	No	5	1	30	2	0	0-1 ft	**0 to 1 ft FILL** - Brown, moist, mostly silty sand, some fill (cinders, glass, brick, slag), medium dense
										0		**1 - 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, some fine sand, stiff.
TP-13	03/04/21	37.03-1-21.1	No	No	Yes	5	n/a	20	2	0		**0 - 0.3 ft: TOPSOIL** - Dark brown, moist, mostly silt, some fine sand, medium dense
										0		**0.3 - 4 ft: FINE SAND WITH SILT** - Black, moist to wet (3') mostly fine sand, some silt, medium dense
										0		**4- 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, some fine sand, stiff.
TP-14	03/04/21	37.03-1-21.1	Yes	No	Yes	5	3	20	2	0		**0 - 0.25 ft: TOPSOIL** - Dark brown, moist, mostly silt, some fine sand, cinders and brick, roots.
										0	0.25-3 ft	**0.25 - 3 ft: FILL** - Black, moist, mostly black fines, some fine sand, little fill (cinders, wood), wet at 3'
										0		**3- 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, some fine sand, stiff.
TP-15	03/04/21	37.03-1-21.1	Yes	No	Yes	5	3	20	2	0		**0 - 0.5 ft: TOPSOIL** - Dark brown, moist, mostly silt, some fine sand, cinders and brick, roots.
										0		**0.5 - 2 ft: FINE SAND WITH SILT** - Black, moist to wet (3') mostly fine sand, some silt, medium dense
										0	2-3 ft	**2 - 3 ft: FILL** - Black, wet (3') mostly fine sand, some fill (few slag with iron staining), loose when disturbed
										0		**3- 5 ft: SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, some fine sand, stiff.
TP-16	03/04/21	37.03-1-21.1	Yes	No	Yes	6	1	20	2	0	0-2 ft	**0 - 1 ft: TOPSOIL** - Dark brown, moist, mostly silt, some fine sand, cinders and brick, roots.
										0		**1 - 1.25 ft: FILL** - Black, moist, mostly cinders, some silty sand, medium dense
										0		**1.25 - 5 ft: FINE SAND** - Tan, wet, mostly fine sand, medium dense, no odors
										0		**5 - 6 ft: REWORKED SANDY LEAN CLAY** - Reddish brown, moist, mostly clay, some fine sand, stiff.

Definitions:
fbgs = feet below ground surface

FIGURES

F:\CAD\TurnKey\Legacy Development\Grand Island Site\Phase II\Figure 1; Site Location and Vicinity Map.dwg 3/11/2021 4:35:11 PM

FIGURE 1



3,000' 0' 3,000' 6,000'

SCALE: 1 INCH = 3,000 FEET
SCALE IN FEET
(approximate)

N

QUADRANGLE LOCATION

TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: T0395-021-001

DATE: MARCH 2021

DRAFTED BY: CNK

SITE LOCATION AND VICINITY MAP

PHASE II ENVIRONMENTAL INVESTIGATION

GRAND ISLAND BOULEVARD AND BASELINE ROAD SITE

GRAND ISLAND, NEW YORK

PREPARED FOR

LEGACY DEVELOPMENT

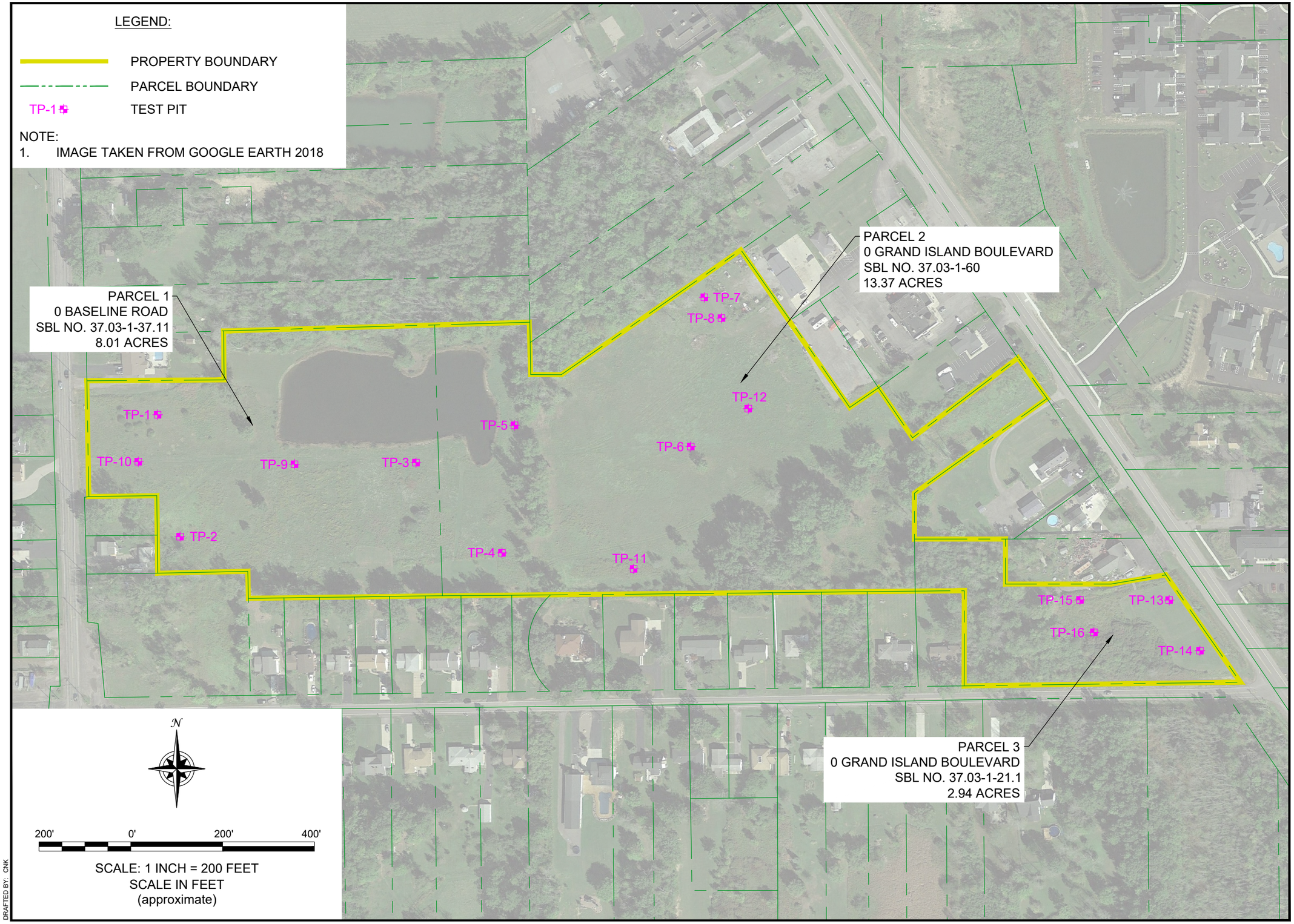
LEGEND:

PROPERTY BOUNDARY

PARCEL BOUNDARY

TP-1 TEST PIT

NOTE:
1. IMAGE TAKEN FROM GOOGLE EARTH 2018



N

200' 0' 200' 400'

SCALE: 1 INCH = 200 FEET
SCALE IN FEET
(approximate)

DATE: MARCH 2021
DRAFTED BY: CNK

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: T0395-021-001

INVESTIGATION LOCATIONS

PHASE II ENVIRONMENTAL INVESTIGATION
GRAND ISLAND BOULEVARD AND BASELINE ROAD SITE

GRAND ISLAND, NEW YORK
PREPARED FOR
LEGACY DEVELOPMENT

FIGURE 2

F:\CAD\TurnKey\Legacy Development\Grand Island Site\Phase II\Figure 3: Investigation Locations and Areas of Concern.dwg, 3/18/2021 1:46:05 PM

LEGEND:

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- TP-1 TEST PIT
- EXCEEDS UNRESTRICTED SCOs
- EXCEEDS RESTRICTED-RESIDENTIAL SCOs
- EXCEEDS COMMERCIAL SCOs
- EXCEEDS INDUSTRIAL SCOs

NOTE:
1. IMAGE TAKEN FROM GOOGLE EARTH 2018
2. ANALYTICAL RESULTS COMPARED TO 6 NYCRR PART 375 SOIL CLEANUP OBJECTIVES (SCOs)

TP-10 (0-2 FT)	3/4/2021
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	5.5
BENZO(A)PYRENE	6.2
BENZO(B)FLUORANTHENE	7
CHRYSENE	5.7
DIBENZO(A,H)ANTHRACENE	1.6 J
INDENO(1,2,3-CD)PYRENE	4.5J
CADMIUM	56.8
CHROMIUM	68.9
LEAD	815
MERCURY	4.4
SILVER	3.5

TP-7 (0-2 FT)	2/18/2021
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	11
BENZO(A)PYRENE	11
BENZO(B)FLUORANTHENE	15
BENZO(K)FLUORANTHENE	6.9
CHRYSENE	15
DIBENZO(A,H)ANTHRACENE	2.1
INDENO(1,2,3-CD)PYRENE	6.4
CHROMIUM	60.7

PARCEL 2
0 GRAND ISLAND BOULEVARD
SBL NO. 37.03-1-60
13.37 ACRES

TP-12 (0-1 FT)	3/4/2021
PARAMETER	MG/KG
CHROMIUM	42.6
LEAD	122
MERCURY	0.21

TP-1 (0-0.5 FT)	2/18/2021
PARAMETER	MG/KG
LEAD	72.7 F1

TP-1, TP-2, TP-3, TP-4, TP-5, TP-6, TP-7, TP-8, TP-9, TP-10, TP-11, TP-12, TP-13, TP-14, TP-15, TP-16

TP-15 (2-3 FT)	3/4/2021
PARAMETER	MG/KG
ARSENIC	29
CHROMIUM	30.1
MERCURY	0.2

PARCEL 1
0 BASELINE ROAD
SBL NO. 37.03-1-37.11
8.01 ACRES

TP-9 (0.5-1.5 FT)	3/4/2021
PARAMETER	MG/KG
CHROMIUM	33.6

PARCEL 3
0 GRAND ISLAND BOULEVARD
SBL NO. 37.03-1-21.1
2.94 ACRES

TP-5 (1-3 FT)	2/18/2021
PARAMETER	MG/KG
CHROMIUM	60.7
LEAD	144

TP-3 (1-1.5 FT)	2/18/2021
PARAMETER	MG/KG
CHROMIUM	33.7
LEAD	100
MERCURY	0.22

TP-6 (0-2 FT)	2/18/2021
PARAMETER	MG/KG
BENZO(A)ANTHRACENE	2.3
BENZO(A)PYRENE	2.2
BENZO(B)FLUORANTHENE	2.5
BENZO(K)FLUORANTHENE	1.2
CHRYSENE	2.1
DIBENZO(A,H)ANTHRACENE	0.41 J
INDENO(1,2,3-CD)PYRENE	1.2
LEAD	139
MERCURY	0.19

TP-16 (0-2 FT)	3/4/2021
PARAMETER	MG/KG
ARSENIC	30.2
BARIUM	394
CHROMIUM	35.7

TP-14 (2-3 FT)	3/4/2021
PARAMETER	MG/KG
ARSENIC	15.3
BARIUM	776
CHROMIUM	154

N

200' 0' 200' 400'

SCALE: 1 INCH = 200 FEET
SCALE IN FEET
(approximate)

DATE: MARCH 2021
DRAFTED BY: CNK

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: T0395-021-001

INVESTIGATION LOCATIONS AND AREAS OF CONCERN

PHASE II ENVIRONMENTAL INVESTIGATION
GRAND ISLAND BOULEVARD AND BASELINE ROAD SITE
GRAND ISLAND, NEW YORK
PREPARED FOR
LEGACY DEVELOPMENT

FIGURE 3

APPENDIX A

PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1,2: View of the fill materials noted at the Site.

Photo 3: View of a typical test pit at the Site with fill materials.

Photo 4: View of the fill materials noted on the southern portion of the Site.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: View of the fill materials noted at TP-15.

Photo 6: View of the fill materials noted at TP-16.

Photo 7: View of the fill materials noted at TP-5.

Photo 8: Another view of TP-5.

APPENDIX B

LABORATORY ANALYTICAL REPORT

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-181318-1
Client Project/Site: Legacy Grand Island

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

Attn: Bryan Mayback

Authorized for release by:
2/26/2021 9:13:01 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-181318-1
Project/Site: Legacy Grand Island

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
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: Legacy Grand Island

Job ID: 480-181318-1

Job ID: 480-181318-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-181318-1

Comments
No additional comments.

Receipt
The samples were received on 2/19/2021 12:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6º C.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color, appearance, and viscosity: TP-1 0-6 IN (480-181318-1), TP-3 1-1.5 FT (480-181318-3), TP-5 1-3 FT (480-181318-4), TP-6 0-2 FT (480-181318-5), TP-7 0-2 FT (480-181318-6), TP-8 0-2 FT (480-181318-7), (480-181318-A-1-D MS) and (480-181318-A-1-E MSD). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: TP-8 0-2 FT (480-181318-7). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TP-7 0-2 FT (480-181318-6). These results have been reported and qualified.

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

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

Organic Prep
Method 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: TP-8 0-2 FT (480-181318-7). 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: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-1 0-6 IN — Lab Sample ID: 480-181318-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	340	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	330	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	360	J	1100	170	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	200	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	170	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Chrysene	280	J	1100	240	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	700	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	180	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	600	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	410	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Arsenic	5.3		2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	103	B F1	0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.57	B	0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	23.5		0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	72.7	F1	1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.12		0.026	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-2 0-1 FT — Lab Sample ID: 480-181318-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	56	J	250	27	ug/Kg	1	☼	8270D	Total/NA
Pyrene	41	J	250	30	ug/Kg	1	☼	8270D	Total/NA
Arsenic	5.2		2.9	0.58	mg/Kg	1	☼	6010C	Total/NA
Barium	124	B	0.73	0.16	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.42	B	0.29	0.044	mg/Kg	1	☼	6010C	Total/NA
Chromium	30.8		0.73	0.29	mg/Kg	1	☼	6010C	Total/NA
Lead	34.7		1.5	0.35	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.093		0.028	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-3 1-1.5 FT — Lab Sample ID: 480-181318-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	410	J	1200	120	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	430	J	1200	180	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	520	J	1200	200	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	280	J	1200	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	200	J	1200	160	ug/Kg	5	☼	8270D	Total/NA
Chrysene	330	J	1200	280	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	870	J	1200	130	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	250	J	1200	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	750	J	1200	150	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	530	J	1200	180	ug/Kg	5	☼	8270D	Total/NA
Arsenic	7.0		3.1	0.62	mg/Kg	1	☼	6010C	Total/NA
Barium	123	B	0.77	0.17	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.74	B	0.31	0.046	mg/Kg	1	☼	6010C	Total/NA
Chromium	33.7		0.77	0.31	mg/Kg	1	☼	6010C	Total/NA
Lead	100		1.5	0.37	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.0	J	6.2	0.62	mg/Kg	1	☼	6010C	Total/NA
Silver	0.37	J	0.93	0.31	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.22		0.028	0.012	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-5 1-3 FT — Lab Sample ID: 480-181318-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	520	J	1200	120	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	490	J	1200	180	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	520	J	1200	190	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	320	J	1200	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	290	J	1200	160	ug/Kg	5	☼	8270D	Total/NA
Chrysene	390	J	1200	270	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1000	J	1200	130	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	300	J	1200	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	880	J	1200	140	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	640	J	1200	180	ug/Kg	5	☼	8270D	Total/NA
Arsenic	7.0		3.0	0.60	mg/Kg	1	☼	6010C	Total/NA
Barium	172	B	0.75	0.16	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.80	B	0.30	0.045	mg/Kg	1	☼	6010C	Total/NA
Chromium	60.7		0.75	0.30	mg/Kg	1	☼	6010C	Total/NA
Lead	144		1.5	0.36	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.74	J	6.0	0.60	mg/Kg	1	☼	6010C	Total/NA
Silver	0.40	J	0.89	0.30	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.099		0.030	0.012	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-6 0-2 FT — Lab Sample ID: 480-181318-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	730	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Anthracene	620	J	1100	270	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	2300		1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	2200		1100	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2500		1100	180	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1300		1100	120	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1200		1100	140	ug/Kg	5	☼	8270D	Total/NA
Chrysene	2100		1100	250	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	410	J	1100	200	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	5000		1100	120	ug/Kg	5	☼	8270D	Total/NA
Fluorene	160	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1200		1100	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	4100		1100	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	2000		1100	160	ug/Kg	5	☼	8270D	Total/NA
Arsenic	6.1		2.6	0.53	mg/Kg	1	☼	6010C	Total/NA
Barium	86.4	B	0.66	0.15	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.3	B	0.26	0.040	mg/Kg	1	☼	6010C	Total/NA
Chromium	27.6		0.66	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	139		1.3	0.32	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.57	J	5.3	0.53	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.19		0.025	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-7 0-2 FT — Lab Sample ID: 480-181318-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	2500		1900	280	ug/Kg	10	☼	8270D	Total/NA
Acenaphthylene	250	J	1900	250	ug/Kg	10	☼	8270D	Total/NA
Anthracene	2200		1900	470	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	11000		1900	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	11000		1900	280	ug/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: TP-7 0-2 FT (Continued)
Lab Sample ID: 480-181318-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	15000		1900	300	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	6300		1900	200	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	6900		1900	250	ug/Kg	10	☼	8270D	Total/NA
Chrysene	15000		1900	430	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2100		1900	340	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	36000		1900	200	ug/Kg	10	☼	8270D	Total/NA
Fluorene	2300		1900	230	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	6400		1900	240	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	850	J	1900	250	ug/Kg	10	☼	8270D	Total/NA
Pyrene	26000		1900	230	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	29000		1900	280	ug/Kg	10	☼	8270D	Total/NA
Arsenic	4.1		2.2	0.43	mg/Kg	1	☼	6010C	Total/NA
Barium	131	B	0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.39	B	0.22	0.032	mg/Kg	1	☼	6010C	Total/NA
Chromium	60.7		0.54	0.22	mg/Kg	1	☼	6010C	Total/NA
Lead	62.8		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.64	J	4.3	0.43	mg/Kg	1	☼	6010C	Total/NA
Silver	0.30	J	0.65	0.22	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.042		0.023	0.0092	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-8 0-2 FT
Lab Sample ID: 480-181318-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		2.1	0.43	mg/Kg	1	☼	6010C	Total/NA
Barium	69.5	B	0.53	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.40	B	0.21	0.032	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.9		0.53	0.21	mg/Kg	1	☼	6010C	Total/NA
Lead	55.1		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Silver	0.25	J	0.64	0.21	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.063		0.019	0.0077	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-1 0-6 IN
Date Collected: 02/18/21 09:00
Date Received: 02/19/21 12:10

Lab Sample ID: 480-181318-1
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1100	160	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Acenaphthylene	ND		1100	140	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Anthracene	ND		1100	270	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Benzo[a]anthracene	**340**	**J**	1100	110	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Benzo[a]pyrene	**330**	**J**	1100	160	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Benzo[b]fluoranthene	**360**	**J**	1100	170	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Benzo[g,h,i]perylene	**200**	**J**	1100	110	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Benzo[k]fluoranthene	**170**	**J**	1100	140	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Chrysene	**280**	**J**	1100	240	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Dibenz(a,h)anthracene	ND		1100	190	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Fluoranthene	**700**	**J**	1100	110	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Fluorene	ND		1100	130	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Indeno[1,2,3-cd]pyrene	**180**	**J**	1100	130	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Naphthalene	ND		1100	140	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Pyrene	**600**	**J**	1100	130	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5
Phenanthrene	**410**	**J**	1100	160	ug/Kg	☼	02/22/21 15:22	02/23/21 15:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*54 - 120*	*02/22/21 15:22*	*02/23/21 15:52*	*5*
2-Fluorobiphenyl	*100*		*60 - 120*	*02/22/21 15:22*	*02/23/21 15:52*	*5*
2-Fluorophenol (Surr)	*94*		*52 - 120*	*02/22/21 15:22*	*02/23/21 15:52*	*5*
Phenol-d5 (Surr)	*93*		*54 - 120*	*02/22/21 15:22*	*02/23/21 15:52*	*5*
p-Terphenyl-d14 (Surr)	*94*		*79 - 130*	*02/22/21 15:22*	*02/23/21 15:52*	*5*
Nitrobenzene-d5 (Surr)	*93*		*53 - 120*	*02/22/21 15:22*	*02/23/21 15:52*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.3**		2.5	0.50	mg/Kg	☼	02/22/21 15:54	02/24/21 14:49	1
Barium	**103**	**B F1**	0.63	0.14	mg/Kg	☼	02/22/21 15:54	02/24/21 14:49	1
Cadmium	**0.57**	**B**	0.25	0.038	mg/Kg	☼	02/22/21 15:54	02/24/21 14:49	1
Chromium	**23.5**		0.63	0.25	mg/Kg	☼	02/22/21 15:54	02/24/21 14:49	1
Lead	**72.7**	**F1**	1.3	0.30	mg/Kg	☼	02/22/21 15:54	02/24/21 14:49	1
Selenium	ND		5.0	0.50	mg/Kg	☼	02/22/21 15:54	02/24/21 14:49	1
Silver	ND		0.76	0.25	mg/Kg	☼	02/22/21 15:54	02/24/21 14:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.026	0.010	mg/Kg	☼	02/24/21 13:29	02/24/21 15:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-2 0-1 FT
Date Collected: 02/18/21 10:00
Date Received: 02/19/21 12:10

Lab Sample ID: 480-181318-2
Matrix: Solid
Percent Solids: 67.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		250	37	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Acenaphthylene	ND		250	33	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Anthracene	ND		250	62	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Benzo[a]anthracene	ND		250	25	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Benzo[a]pyrene	ND		250	37	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Benzo[b]fluoranthene	ND		250	40	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Benzo[g,h,i]perylene	ND		250	27	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Benzo[k]fluoranthene	ND		250	33	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Chrysene	ND		250	56	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Dibenz(a,h)anthracene	ND		250	45	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Fluoranthene	**56**	**J**	250	27	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Fluorene	ND		250	30	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Indeno[1,2,3-cd]pyrene	ND		250	31	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Naphthalene	ND		250	33	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Pyrene	**41**	**J**	250	30	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1
Phenanthrene	ND		250	37	ug/Kg	☼	02/22/21 15:22	02/23/21 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*54 - 120*	*02/22/21 15:22*	*02/23/21 16:17*	*1*
2-Fluorobiphenyl	*95*		*60 - 120*	*02/22/21 15:22*	*02/23/21 16:17*	*1*
2-Fluorophenol (Surr)	*85*		*52 - 120*	*02/22/21 15:22*	*02/23/21 16:17*	*1*
Phenol-d5 (Surr)	*84*		*54 - 120*	*02/22/21 15:22*	*02/23/21 16:17*	*1*
p-Terphenyl-d14 (Surr)	*99*		*79 - 130*	*02/22/21 15:22*	*02/23/21 16:17*	*1*
Nitrobenzene-d5 (Surr)	*87*		*53 - 120*	*02/22/21 15:22*	*02/23/21 16:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.2**		2.9	0.58	mg/Kg	☼	02/22/21 15:54	02/24/21 15:08	1
Barium	**124**	**B**	0.73	0.16	mg/Kg	☼	02/22/21 15:54	02/24/21 15:08	1
Cadmium	**0.42**	**B**	0.29	0.044	mg/Kg	☼	02/22/21 15:54	02/24/21 15:08	1
Chromium	**30.8**		0.73	0.29	mg/Kg	☼	02/22/21 15:54	02/24/21 15:08	1
Lead	**34.7**		1.5	0.35	mg/Kg	☼	02/22/21 15:54	02/24/21 15:08	1
Selenium	ND		5.8	0.58	mg/Kg	☼	02/22/21 15:54	02/24/21 15:08	1
Silver	ND		0.88	0.29	mg/Kg	☼	02/22/21 15:54	02/24/21 15:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.093**		0.028	0.011	mg/Kg	☼	02/24/21 13:29	02/24/21 15:09	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-3 1-1.5 FT
Date Collected: 02/18/21 11:00
Date Received: 02/19/21 12:10

Lab Sample ID: 480-181318-3
Matrix: Solid
Percent Solids: 67.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1200	180	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Acenaphthylene	ND		1200	160	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Anthracene	ND		1200	310	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Benzo[a]anthracene	**410**	**J**	1200	120	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Benzo[a]pyrene	**430**	**J**	1200	180	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Benzo[b]fluoranthene	**520**	**J**	1200	200	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Benzo[g,h,i]perylene	**280**	**J**	1200	130	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Benzo[k]fluoranthene	**200**	**J**	1200	160	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Chrysene	**330**	**J**	1200	280	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Dibenz(a,h)anthracene	ND		1200	220	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Fluoranthene	**870**	**J**	1200	130	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Fluorene	ND		1200	150	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Indeno[1,2,3-cd]pyrene	**250**	**J**	1200	150	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Naphthalene	ND		1200	160	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Pyrene	**750**	**J**	1200	150	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5
Phenanthrene	**530**	**J**	1200	180	ug/Kg	☼	02/22/21 15:22	02/23/21 16:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*54 - 120*	*02/22/21 15:22*	*02/23/21 16:41*	*5*
2-Fluorobiphenyl	*91*		*60 - 120*	*02/22/21 15:22*	*02/23/21 16:41*	*5*
2-Fluorophenol (Surr)	*83*		*52 - 120*	*02/22/21 15:22*	*02/23/21 16:41*	*5*
Phenol-d5 (Surr)	*82*		*54 - 120*	*02/22/21 15:22*	*02/23/21 16:41*	*5*
p-Terphenyl-d14 (Surr)	*93*		*79 - 130*	*02/22/21 15:22*	*02/23/21 16:41*	*5*
Nitrobenzene-d5 (Surr)	*88*		*53 - 120*	*02/22/21 15:22*	*02/23/21 16:41*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.0**		3.1	0.62	mg/Kg	☼	02/22/21 15:54	02/24/21 15:12	1
Barium	**123**	**B**	0.77	0.17	mg/Kg	☼	02/22/21 15:54	02/24/21 15:12	1
Cadmium	**0.74**	**B**	0.31	0.046	mg/Kg	☼	02/22/21 15:54	02/24/21 15:12	1
Chromium	**33.7**		0.77	0.31	mg/Kg	☼	02/22/21 15:54	02/24/21 15:12	1
Lead	**100**		1.5	0.37	mg/Kg	☼	02/22/21 15:54	02/24/21 15:12	1
Selenium	**1.0**	**J**	6.2	0.62	mg/Kg	☼	02/22/21 15:54	02/24/21 15:12	1
Silver	**0.37**	**J**	0.93	0.31	mg/Kg	☼	02/22/21 15:54	02/24/21 15:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.028	0.012	mg/Kg	☼	02/24/21 13:29	02/24/21 15:10	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-5 1-3 FT
Date Collected: 02/18/21 12:00
Date Received: 02/19/21 12:10

Lab Sample ID: 480-181318-4
Matrix: Solid
Percent Solids: 69.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1200	180	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Acenaphthylene	ND		1200	160	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Anthracene	ND		1200	300	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Benzo[a]anthracene	**520**	**J**	1200	120	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Benzo[a]pyrene	**490**	**J**	1200	180	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Benzo[b]fluoranthene	**520**	**J**	1200	190	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Benzo[g,h,i]perylene	**320**	**J**	1200	130	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Benzo[k]fluoranthene	**290**	**J**	1200	160	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Chrysene	**390**	**J**	1200	270	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Dibenz(a,h)anthracene	ND		1200	210	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Fluoranthene	**1000**	**J**	1200	130	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Fluorene	ND		1200	140	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Indeno[1,2,3-cd]pyrene	**300**	**J**	1200	150	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Naphthalene	ND		1200	160	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Pyrene	**880**	**J**	1200	140	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5
Phenanthrene	**640**	**J**	1200	180	ug/Kg	☼	02/22/21 15:22	02/23/21 17:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*54 - 120*	*02/22/21 15:22*	*02/23/21 17:05*	*5*
2-Fluorobiphenyl	*97*		*60 - 120*	*02/22/21 15:22*	*02/23/21 17:05*	*5*
2-Fluorophenol (Surr)	*89*		*52 - 120*	*02/22/21 15:22*	*02/23/21 17:05*	*5*
Phenol-d5 (Surr)	*90*		*54 - 120*	*02/22/21 15:22*	*02/23/21 17:05*	*5*
p-Terphenyl-d14 (Surr)	*95*		*79 - 130*	*02/22/21 15:22*	*02/23/21 17:05*	*5*
Nitrobenzene-d5 (Surr)	*85*		*53 - 120*	*02/22/21 15:22*	*02/23/21 17:05*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.0**		3.0	0.60	mg/Kg	☼	02/22/21 15:54	02/24/21 15:15	1
Barium	**172**	**B**	0.75	0.16	mg/Kg	☼	02/22/21 15:54	02/24/21 15:15	1
Cadmium	**0.80**	**B**	0.30	0.045	mg/Kg	☼	02/22/21 15:54	02/24/21 15:15	1
Chromium	**60.7**		0.75	0.30	mg/Kg	☼	02/22/21 15:54	02/24/21 15:15	1
Lead	**144**		1.5	0.36	mg/Kg	☼	02/22/21 15:54	02/24/21 15:15	1
Selenium	**0.74**	**J**	6.0	0.60	mg/Kg	☼	02/22/21 15:54	02/24/21 15:15	1
Silver	**0.40**	**J**	0.89	0.30	mg/Kg	☼	02/22/21 15:54	02/24/21 15:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.099**		0.030	0.012	mg/Kg	☼	02/24/21 13:29	02/24/21 15:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-6 0-2 FT
Date Collected: 02/18/21 14:00
Date Received: 02/19/21 12:10

Lab Sample ID: 480-181318-5
Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1100	160	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Acenaphthylene	**730**	**J**	1100	140	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Anthracene	**620**	**J**	1100	270	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Benzo[a]anthracene	**2300**		1100	110	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Benzo[a]pyrene	**2200**		1100	160	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Benzo[b]fluoranthene	**2500**		1100	180	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Benzo[g,h,i]perylene	**1300**		1100	120	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Benzo[k]fluoranthene	**1200**		1100	140	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Chrysene	**2100**		1100	250	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Dibenz(a,h)anthracene	**410**	**J**	1100	200	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Fluoranthene	**5000**		1100	120	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Fluorene	**160**	**J**	1100	130	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Indeno[1,2,3-cd]pyrene	**1200**		1100	140	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Naphthalene	ND		1100	140	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Pyrene	**4100**		1100	130	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5
Phenanthrene	**2000**		1100	160	ug/Kg	☼	02/22/21 15:22	02/23/21 17:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*54 - 120*	*02/22/21 15:22*	*02/23/21 17:29*	*5*
2-Fluorobiphenyl	*93*		*60 - 120*	*02/22/21 15:22*	*02/23/21 17:29*	*5*
2-Fluorophenol (Surr)	*87*		*52 - 120*	*02/22/21 15:22*	*02/23/21 17:29*	*5*
Phenol-d5 (Surr)	*88*		*54 - 120*	*02/22/21 15:22*	*02/23/21 17:29*	*5*
p-Terphenyl-d14 (Surr)	*97*		*79 - 130*	*02/22/21 15:22*	*02/23/21 17:29*	*5*
Nitrobenzene-d5 (Surr)	*84*		*53 - 120*	*02/22/21 15:22*	*02/23/21 17:29*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.1**		2.6	0.53	mg/Kg	☼	02/22/21 15:54	02/24/21 15:30	1
Barium	**86.4**	**B**	0.66	0.15	mg/Kg	☼	02/22/21 15:54	02/24/21 15:30	1
Cadmium	**1.3**	**B**	0.26	0.040	mg/Kg	☼	02/22/21 15:54	02/24/21 15:30	1
Chromium	**27.6**		0.66	0.26	mg/Kg	☼	02/22/21 15:54	02/24/21 15:30	1
Lead	**139**		1.3	0.32	mg/Kg	☼	02/22/21 15:54	02/24/21 15:30	1
Selenium	**0.57**	**J**	5.3	0.53	mg/Kg	☼	02/22/21 15:54	02/24/21 15:30	1
Silver	ND		0.79	0.26	mg/Kg	☼	02/22/21 15:54	02/24/21 15:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.025	0.010	mg/Kg	☼	02/24/21 13:29	02/24/21 15:16	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-7 0-2 FT
Date Collected: 02/18/21 13:00
Date Received: 02/19/21 12:10

Lab Sample ID: 480-181318-6
Matrix: Solid
Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2500		1900	280	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Acenaphthylene	250	J	1900	250	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Anthracene	2200		1900	470	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Benzo[a]anthracene	11000		1900	190	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Benzo[a]pyrene	11000		1900	280	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Benzo[b]fluoranthene	15000		1900	300	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Benzo[g,h,i]perylene	6300		1900	200	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Benzo[k]fluoranthene	6900		1900	250	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Chrysene	15000		1900	430	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Dibenz(a,h)anthracene	2100		1900	340	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Fluoranthene	36000		1900	200	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Fluorene	2300		1900	230	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Indeno[1,2,3-cd]pyrene	6400		1900	240	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Naphthalene	850	J	1900	250	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Pyrene	26000		1900	230	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10
Phenanthrene	29000		1900	280	ug/Kg	☼	02/22/21 15:22	02/23/21 17:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*54 - 120*	*02/22/21 15:22*	*02/23/21 17:54*	*10*
2-Fluorobiphenyl	*84*		*60 - 120*	*02/22/21 15:22*	*02/23/21 17:54*	*10*
2-Fluorophenol (Surr)	*82*		*52 - 120*	*02/22/21 15:22*	*02/23/21 17:54*	*10*
Phenol-d5 (Surr)	*83*		*54 - 120*	*02/22/21 15:22*	*02/23/21 17:54*	*10*
p-Terphenyl-d14 (Surr)	*77*	*S1-*	*79 - 130*	*02/22/21 15:22*	*02/23/21 17:54*	*10*
Nitrobenzene-d5 (Surr)	*82*		*53 - 120*	*02/22/21 15:22*	*02/23/21 17:54*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		2.2	0.43	mg/Kg	☼	02/22/21 15:54	02/24/21 15:34	1
Barium	131	B	0.54	0.12	mg/Kg	☼	02/22/21 15:54	02/24/21 15:34	1
Cadmium	0.39	B	0.22	0.032	mg/Kg	☼	02/22/21 15:54	02/24/21 15:34	1
Chromium	60.7		0.54	0.22	mg/Kg	☼	02/22/21 15:54	02/24/21 15:34	1
Lead	62.8		1.1	0.26	mg/Kg	☼	02/22/21 15:54	02/24/21 15:34	1
Selenium	0.64	J	4.3	0.43	mg/Kg	☼	02/22/21 15:54	02/24/21 15:34	1
Silver	0.30	J	0.65	0.22	mg/Kg	☼	02/22/21 15:54	02/24/21 15:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.023	0.0092	mg/Kg	☼	02/24/21 13:29	02/24/21 15:17	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-8 0-2 FT
Date Collected: 02/18/21 13:30
Date Received: 02/19/21 12:10

Lab Sample ID: 480-181318-7
Matrix: Solid
Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		18000	2700	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Acenaphthylene	ND		18000	2400	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Anthracene	ND		18000	4500	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Benzo[a]anthracene	ND		18000	1800	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Benzo[a]pyrene	ND		18000	2700	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Benzo[b]fluoranthene	ND		18000	2900	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Benzo[g,h,i]perylene	ND		18000	1900	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Benzo[k]fluoranthene	ND		18000	2400	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Chrysene	ND		18000	4100	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Dibenz(a,h)anthracene	ND		18000	3200	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Fluoranthene	ND		18000	1900	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Fluorene	ND		18000	2200	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Indeno[1,2,3-cd]pyrene	ND		18000	2300	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Naphthalene	ND		18000	2400	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Pyrene	ND		18000	2200	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10
Phenanthrene	ND		18000	2700	ug/Kg	☼	02/22/21 15:22	02/23/21 18:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*02/22/21 15:22*	*02/23/21 18:18*	*10*
2-Fluorobiphenyl	*104*		*60 - 120*	*02/22/21 15:22*	*02/23/21 18:18*	*10*
2-Fluorophenol (Surr)	*0*	*S1-*	*52 - 120*	*02/22/21 15:22*	*02/23/21 18:18*	*10*
Phenol-d5 (Surr)	*157*	*S1+*	*54 - 120*	*02/22/21 15:22*	*02/23/21 18:18*	*10*
p-Terphenyl-d14 (Surr)	*94*		*79 - 130*	*02/22/21 15:22*	*02/23/21 18:18*	*10*
Nitrobenzene-d5 (Surr)	*142*	*S1+*	*53 - 120*	*02/22/21 15:22*	*02/23/21 18:18*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.4**		2.1	0.43	mg/Kg	☼	02/22/21 15:54	02/24/21 15:38	1
Barium	**69.5**	**B**	0.53	0.12	mg/Kg	☼	02/22/21 15:54	02/24/21 15:38	1
Cadmium	**0.40**	**B**	0.21	0.032	mg/Kg	☼	02/22/21 15:54	02/24/21 15:38	1
Chromium	**14.9**		0.53	0.21	mg/Kg	☼	02/22/21 15:54	02/24/21 15:38	1
Lead	**55.1**		1.1	0.26	mg/Kg	☼	02/22/21 15:54	02/24/21 15:38	1
Selenium	ND		4.3	0.43	mg/Kg	☼	02/22/21 15:54	02/24/21 15:38	1
Silver	**0.25**	**J**	0.64	0.21	mg/Kg	☼	02/22/21 15:54	02/24/21 15:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.063**		0.019	0.0077	mg/Kg	☼	02/24/21 13:29	02/24/21 15:18	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	PHL	TPHd14	NBZ
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(54-120)	(79-130)	(53-120)
480-181318-1	TP-1 0-6 IN	68	100	94	93	94	93
480-181318-1 MS	TP-1 0-6 IN	81	101	95	98	103	96
480-181318-1 MSD	TP-1 0-6 IN	87	102	92	93	102	96
480-181318-2	TP-2 0-1 FT	76	95	85	84	99	87
480-181318-3	TP-3 1-1.5 FT	68	91	83	82	93	88
480-181318-4	TP-5 1-3 FT	68	97	89	90	95	85
480-181318-5	TP-6 0-2 FT	69	93	87	88	97	84
480-181318-6	TP-7 0-2 FT	69	84	82	83	77 S1-	82
480-181318-7	TP-8 0-2 FT	0 S1-	104	0 S1-	157 S1+	94	142 S1+
LCS 480-570232/2-A	Lab Control Sample	88	98	90	94	103	94
MB 480-570232/1-A	Method Blank	75	98	88	90	110	94

Surrogate Legend

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

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

Lab Sample ID: MB 480-570232/1-A
Matrix: Solid
Analysis Batch: 570280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		160	24	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Acenaphthylene	ND		160	21	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Anthracene	ND		160	41	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Benzo[a]anthracene	ND		160	16	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Benzo[a]pyrene	ND		160	24	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Benzo[b]fluoranthene	ND		160	26	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Benzo[g,h,i]perylene	ND		160	17	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Benzo[k]fluoranthene	ND		160	21	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Chrysene	ND		160	37	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Dibenz(a,h)anthracene	ND		160	29	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Fluoranthene	ND		160	17	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Fluorene	ND		160	19	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Indeno[1,2,3-cd]pyrene	ND		160	20	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Naphthalene	ND		160	21	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Pyrene	ND		160	19	ug/Kg		02/22/21 15:22	02/23/21 14:15	1
Phenanthrene	ND		160	24	ug/Kg		02/22/21 15:22	02/23/21 14:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*54 - 120*	*02/22/21 15:22*	*02/23/21 14:15*	*1*
2-Fluorobiphenyl	*98*		*60 - 120*	*02/22/21 15:22*	*02/23/21 14:15*	*1*
2-Fluorophenol (Surr)	*88*		*52 - 120*	*02/22/21 15:22*	*02/23/21 14:15*	*1*
Phenol-d5 (Surr)	*90*		*54 - 120*	*02/22/21 15:22*	*02/23/21 14:15*	*1*
p-Terphenyl-d14 (Surr)	*110*		*79 - 130*	*02/22/21 15:22*	*02/23/21 14:15*	*1*
Nitrobenzene-d5 (Surr)	*94*		*53 - 120*	*02/22/21 15:22*	*02/23/21 14:15*	*1*

Lab Sample ID: LCS 480-570232/2-A
Matrix: Solid
Analysis Batch: 570280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1630	1300		ug/Kg		79	62 - 120
Acenaphthylene	1630	1330		ug/Kg		81	58 - 121
Anthracene	1630	1340		ug/Kg		82	62 - 120
Benzo[a]anthracene	1630	1330		ug/Kg		81	65 - 120
Benzo[a]pyrene	1630	1350		ug/Kg		83	64 - 120
Benzo[b]fluoranthene	1630	1400		ug/Kg		86	64 - 120
Benzo[g,h,i]perylene	1630	1400		ug/Kg		86	45 - 145
Benzo[k]fluoranthene	1630	1290		ug/Kg		79	65 - 120
Chrysene	1630	1370		ug/Kg		84	64 - 120
Dibenz(a,h)anthracene	1630	1430		ug/Kg		87	54 - 132
Fluoranthene	1630	1410		ug/Kg		86	62 - 120
Fluorene	1630	1310		ug/Kg		80	63 - 120
Indeno[1,2,3-cd]pyrene	1630	1400		ug/Kg		86	56 - 134
Naphthalene	1630	1180		ug/Kg		73	55 - 120
Pyrene	1630	1470		ug/Kg		90	61 - 133
Phenanthrene	1630	1350		ug/Kg		82	60 - 120

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

Lab Sample ID: LCS 480-570232/2-A
Matrix: Solid
Analysis Batch: 570280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570232

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		54 - 120
2-Fluorobiphenyl	98		60 - 120
2-Fluorophenol (Surr)	90		52 - 120
Phenol-d5 (Surr)	94		54 - 120
p-Terphenyl-d14 (Surr)	103		79 - 130
Nitrobenzene-d5 (Surr)	94		53 - 120

Lab Sample ID: 480-181318-1 MS
Matrix: Solid
Analysis Batch: 570280

Client Sample ID: TP-1 0-6 IN
Prep Type: Total/NA
Prep Batch: 570232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		2110	1690		ug/Kg	☼	80	60 - 120
Acenaphthylene	ND		2110	1790		ug/Kg	☼	85	58 - 121
Anthracene	ND		2110	1880		ug/Kg	☼	89	62 - 120
Benzo[a]anthracene	340	J	2110	2210		ug/Kg	☼	89	65 - 120
Benzo[a]pyrene	330	J	2110	2270		ug/Kg	☼	92	64 - 120
Benzo[b]fluoranthene	360	J	2110	2110		ug/Kg	☼	83	10 - 150
Benzo[g,h,i]perylene	200	J	2110	2140		ug/Kg	☼	92	45 - 145
Benzo[k]fluoranthene	170	J	2110	2120		ug/Kg	☼	93	23 - 150
Chrysene	280	J	2110	2260		ug/Kg	☼	94	64 - 120
Dibenz(a,h)anthracene	ND		2110	2040		ug/Kg	☼	97	54 - 132
Fluoranthene	700	J	2110	2730		ug/Kg	☼	96	62 - 120
Fluorene	ND		2110	1840		ug/Kg	☼	88	63 - 120
Indeno[1,2,3-cd]pyrene	180	J	2110	2060		ug/Kg	☼	89	56 - 134
Naphthalene	ND		2110	1690		ug/Kg	☼	80	46 - 120
Pyrene	600	J	2110	2670		ug/Kg	☼	98	61 - 133
Phenanthrene	410	J	2110	2340		ug/Kg	☼	92	60 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		54 - 120
2-Fluorobiphenyl	101		60 - 120
2-Fluorophenol (Surr)	95		52 - 120
Phenol-d5 (Surr)	98		54 - 120
p-Terphenyl-d14 (Surr)	103		79 - 130
Nitrobenzene-d5 (Surr)	96		53 - 120

Lab Sample ID: 480-181318-1 MSD
Matrix: Solid
Analysis Batch: 570280

Client Sample ID: TP-1 0-6 IN
Prep Type: Total/NA
Prep Batch: 570232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		2120	1740		ug/Kg	☼	82	60 - 120	3	35
Acenaphthylene	ND		2120	1750		ug/Kg	☼	83	58 - 121	2	18
Anthracene	ND		2120	1870		ug/Kg	☼	88	62 - 120	1	15
Benzo[a]anthracene	340	J	2120	2000		ug/Kg	☼	79	65 - 120	10	15
Benzo[a]pyrene	330	J	2120	2010		ug/Kg	☼	79	64 - 120	12	15
Benzo[b]fluoranthene	360	J	2120	2040		ug/Kg	☼	79	10 - 150	3	15

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

Lab Sample ID: 480-181318-1 MSD
Matrix: Solid
Analysis Batch: 570280

Client Sample ID: TP-1 0-6 IN
Prep Type: Total/NA
Prep Batch: 570232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	200	J	2120	2100		ug/Kg	☼	90	45 - 145	2	15
Benzo[k]fluoranthene	170	J	2120	1810		ug/Kg	☼	77	23 - 150	16	22
Chrysene	280	J	2120	2080		ug/Kg	☼	85	64 - 120	9	15
Dibenz(a,h)anthracene	ND		2120	2010		ug/Kg	☼	95	54 - 132	2	15
Fluoranthene	700	J	2120	2470		ug/Kg	☼	83	62 - 120	10	15
Fluorene	ND		2120	1810		ug/Kg	☼	85	63 - 120	2	15
Indeno[1,2,3-cd]pyrene	180	J	2120	2030		ug/Kg	☼	87	56 - 134	1	15
Naphthalene	ND		2120	1700		ug/Kg	☼	80	46 - 120	1	29
Pyrene	600	J	2120	2420		ug/Kg	☼	86	61 - 133	10	35
Phenanthrene	410	J	2120	2140		ug/Kg	☼	82	60 - 122	9	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*54 - 120*
2-Fluorobiphenyl	*102*		*60 - 120*
2-Fluorophenol (Surr)	*92*		*52 - 120*
Phenol-d5 (Surr)	*93*		*54 - 120*
p-Terphenyl-d14 (Surr)	*102*		*79 - 130*
Nitrobenzene-d5 (Surr)	*96*		*53 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-570215/1-A
Matrix: Solid
Analysis Batch: 570522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.1	0.42	mg/Kg		02/22/21 15:54	02/24/21 13:41	1
Barium	0.161	J	0.53	0.12	mg/Kg		02/22/21 15:54	02/24/21 13:41	1
Cadmium	0.0642	J	0.21	0.032	mg/Kg		02/22/21 15:54	02/24/21 13:41	1
Chromium	ND		0.53	0.21	mg/Kg		02/22/21 15:54	02/24/21 13:41	1
Lead	ND		1.1	0.25	mg/Kg		02/22/21 15:54	02/24/21 13:41	1
Selenium	ND		4.2	0.42	mg/Kg		02/22/21 15:54	02/24/21 13:41	1
Silver	ND		0.63	0.21	mg/Kg		02/22/21 15:54	02/24/21 13:41	1

Lab Sample ID: LCSSRM 480-570215/2-A
Matrix: Solid
Analysis Batch: 570522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570215

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	162	156.6		mg/Kg		96.7	70.4 - 130.2
Barium	138	131.6		mg/Kg		95.4	74.6 - 124.6
Cadmium	135	128.2		mg/Kg		95.0	74.8 - 124.4
Chromium	117	110.9		mg/Kg		94.8	70.1 - 129.9
Lead	77.6	83.55		mg/Kg		107.7	68.8 - 131.4

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

Lab Sample ID: LCSSRM 480-570215/2-A
Matrix: Solid
Analysis Batch: 570522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570215

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Selenium			172	168.2		mg/Kg		97.8	68.0 - 132.6		
Silver			24.7	22.78		mg/Kg		92.2	67.2 - 133.2		

Lab Sample ID: 480-181318-1 MS
Matrix: Solid
Analysis Batch: 570522

Client Sample ID: TP-1 0-6 IN
Prep Type: Total/NA
Prep Batch: 570215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.3		54.1	58.24		mg/Kg	☼	98	75 - 125
Barium	103	B F1	54.1	211.4	F1	mg/Kg	☼	201	75 - 125
Cadmium	0.57	B	54.1	52.47		mg/Kg	☼	96	75 - 125
Chromium	23.5		54.1	86.09		mg/Kg	☼	116	75 - 125
Lead	72.7	F1	54.1	141.8	F1	mg/Kg	☼	128	75 - 125
Selenium	ND		54.1	51.73		mg/Kg	☼	96	75 - 125
Silver	ND		13.5	13.05		mg/Kg	☼	96	75 - 125

Lab Sample ID: 480-181318-1 MSD
Matrix: Solid
Analysis Batch: 570522

Client Sample ID: TP-1 0-6 IN
Prep Type: Total/NA
Prep Batch: 570215

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.3		53.4	56.47		mg/Kg	☼	96	75 - 125	3	20
Barium	103	B F1	53.4	215.5	F1	mg/Kg	☼	211	75 - 125	2	20
Cadmium	0.57	B	53.4	51.22		mg/Kg	☼	95	75 - 125	2	20
Chromium	23.5		53.4	83.38		mg/Kg	☼	112	75 - 125	3	20
Lead	72.7	F1	53.4	140.2	F1	mg/Kg	☼	126	75 - 125	1	20
Selenium	ND		53.4	50.47		mg/Kg	☼	95	75 - 125	2	20
Silver	ND		13.3	12.63		mg/Kg	☼	95	75 - 125	3	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-570452/1-A
Matrix: Solid
Analysis Batch: 570474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.016	0.0063	mg/Kg		02/24/21 13:29	02/24/21 14:43	1

Lab Sample ID: LCSSRM 480-570452/2-A ^10
Matrix: Solid
Analysis Batch: 570474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570452

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			27.2	30.03		mg/Kg		110.4	59.9 - 140.1		

GC/MS Semi VOA

Prep Batch: 570232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181318-1	TP-1 0-6 IN	Total/NA	Solid	3550C	
480-181318-2	TP-2 0-1 FT	Total/NA	Solid	3550C	
480-181318-3	TP-3 1-1.5 FT	Total/NA	Solid	3550C	
480-181318-4	TP-5 1-3 FT	Total/NA	Solid	3550C	
480-181318-5	TP-6 0-2 FT	Total/NA	Solid	3550C	
480-181318-6	TP-7 0-2 FT	Total/NA	Solid	3550C	
480-181318-7	TP-8 0-2 FT	Total/NA	Solid	3550C	
MB 480-570232/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-570232/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-181318-1 MS	TP-1 0-6 IN	Total/NA	Solid	3550C	
480-181318-1 MSD	TP-1 0-6 IN	Total/NA	Solid	3550C	

Analysis Batch: 570280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181318-1	TP-1 0-6 IN	Total/NA	Solid	8270D	570232
480-181318-2	TP-2 0-1 FT	Total/NA	Solid	8270D	570232
480-181318-3	TP-3 1-1.5 FT	Total/NA	Solid	8270D	570232
480-181318-4	TP-5 1-3 FT	Total/NA	Solid	8270D	570232
480-181318-5	TP-6 0-2 FT	Total/NA	Solid	8270D	570232
480-181318-6	TP-7 0-2 FT	Total/NA	Solid	8270D	570232
480-181318-7	TP-8 0-2 FT	Total/NA	Solid	8270D	570232
MB 480-570232/1-A	Method Blank	Total/NA	Solid	8270D	570232
LCS 480-570232/2-A	Lab Control Sample	Total/NA	Solid	8270D	570232
480-181318-1 MS	TP-1 0-6 IN	Total/NA	Solid	8270D	570232
480-181318-1 MSD	TP-1 0-6 IN	Total/NA	Solid	8270D	570232

Metals

Prep Batch: 570215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181318-1	TP-1 0-6 IN	Total/NA	Solid	3050B	
480-181318-2	TP-2 0-1 FT	Total/NA	Solid	3050B	
480-181318-3	TP-3 1-1.5 FT	Total/NA	Solid	3050B	
480-181318-4	TP-5 1-3 FT	Total/NA	Solid	3050B	
480-181318-5	TP-6 0-2 FT	Total/NA	Solid	3050B	
480-181318-6	TP-7 0-2 FT	Total/NA	Solid	3050B	
480-181318-7	TP-8 0-2 FT	Total/NA	Solid	3050B	
MB 480-570215/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-570215/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-181318-1 MS	TP-1 0-6 IN	Total/NA	Solid	3050B	
480-181318-1 MSD	TP-1 0-6 IN	Total/NA	Solid	3050B	

Prep Batch: 570452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181318-1	TP-1 0-6 IN	Total/NA	Solid	7471B	
480-181318-2	TP-2 0-1 FT	Total/NA	Solid	7471B	
480-181318-3	TP-3 1-1.5 FT	Total/NA	Solid	7471B	
480-181318-4	TP-5 1-3 FT	Total/NA	Solid	7471B	
480-181318-5	TP-6 0-2 FT	Total/NA	Solid	7471B	
480-181318-6	TP-7 0-2 FT	Total/NA	Solid	7471B	
480-181318-7	TP-8 0-2 FT	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 570452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-570452/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-570452/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 570474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181318-1	TP-1 0-6 IN	Total/NA	Solid	7471B	570452
480-181318-2	TP-2 0-1 FT	Total/NA	Solid	7471B	570452
480-181318-3	TP-3 1-1.5 FT	Total/NA	Solid	7471B	570452
480-181318-4	TP-5 1-3 FT	Total/NA	Solid	7471B	570452
480-181318-5	TP-6 0-2 FT	Total/NA	Solid	7471B	570452
480-181318-6	TP-7 0-2 FT	Total/NA	Solid	7471B	570452
480-181318-7	TP-8 0-2 FT	Total/NA	Solid	7471B	570452
MB 480-570452/1-A	Method Blank	Total/NA	Solid	7471B	570452
LCSSRM 480-570452/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	570452

Analysis Batch: 570522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181318-1	TP-1 0-6 IN	Total/NA	Solid	6010C	570215
480-181318-2	TP-2 0-1 FT	Total/NA	Solid	6010C	570215
480-181318-3	TP-3 1-1.5 FT	Total/NA	Solid	6010C	570215
480-181318-4	TP-5 1-3 FT	Total/NA	Solid	6010C	570215
480-181318-5	TP-6 0-2 FT	Total/NA	Solid	6010C	570215
480-181318-6	TP-7 0-2 FT	Total/NA	Solid	6010C	570215
480-181318-7	TP-8 0-2 FT	Total/NA	Solid	6010C	570215
MB 480-570215/1-A	Method Blank	Total/NA	Solid	6010C	570215
LCSSRM 480-570215/2-A	Lab Control Sample	Total/NA	Solid	6010C	570215
480-181318-1 MS	TP-1 0-6 IN	Total/NA	Solid	6010C	570215
480-181318-1 MSD	TP-1 0-6 IN	Total/NA	Solid	6010C	570215

General Chemistry

Analysis Batch: 570175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181318-1	TP-1 0-6 IN	Total/NA	Solid	Moisture	
480-181318-2	TP-2 0-1 FT	Total/NA	Solid	Moisture	
480-181318-3	TP-3 1-1.5 FT	Total/NA	Solid	Moisture	
480-181318-4	TP-5 1-3 FT	Total/NA	Solid	Moisture	
480-181318-5	TP-6 0-2 FT	Total/NA	Solid	Moisture	
480-181318-6	TP-7 0-2 FT	Total/NA	Solid	Moisture	
480-181318-7	TP-8 0-2 FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-1 0-6 IN

Lab Sample ID: 480-181318-1

Date Collected: 02/18/21 09:00
Matrix: Solid
Date Received: 02/19/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570175	02/21/21 13:10	DSC	TAL BUF

Client Sample ID: TP-1 0-6 IN

Lab Sample ID: 480-181318-1

Date Collected: 02/18/21 09:00
Matrix: Solid
Date Received: 02/19/21 12:10
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570232	02/22/21 15:22	ATG	TAL BUF
Total/NA	Analysis	8270D		5	570280	02/23/21 15:52	JMM	TAL BUF
Total/NA	Prep	3050B			570215	02/22/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570522	02/24/21 14:49	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:08	BMB	TAL BUF

Client Sample ID: TP-2 0-1 FT

Lab Sample ID: 480-181318-2

Date Collected: 02/18/21 10:00
Matrix: Solid
Date Received: 02/19/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570175	02/21/21 13:10	DSC	TAL BUF

Client Sample ID: TP-2 0-1 FT

Lab Sample ID: 480-181318-2

Date Collected: 02/18/21 10:00
Matrix: Solid
Date Received: 02/19/21 12:10
Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570232	02/22/21 15:22	ATG	TAL BUF
Total/NA	Analysis	8270D		1	570280	02/23/21 16:17	JMM	TAL BUF
Total/NA	Prep	3050B			570215	02/22/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570522	02/24/21 15:08	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:09	BMB	TAL BUF

Client Sample ID: TP-3 1-1.5 FT

Lab Sample ID: 480-181318-3

Date Collected: 02/18/21 11:00
Matrix: Solid
Date Received: 02/19/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570175	02/21/21 13:10	DSC	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-3 1-1.5 FT

Lab Sample ID: 480-181318-3
Date Collected: 02/18/21 11:00
Matrix: Solid
Date Received: 02/19/21 12:10
Percent Solids: 67.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570232	02/22/21 15:22	ATG	TAL BUF
Total/NA	Analysis	8270D		5	570280	02/23/21 16:41	JMM	TAL BUF
Total/NA	Prep	3050B			570215	02/22/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570522	02/24/21 15:12	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:10	BMB	TAL BUF

Client Sample ID: TP-5 1-3 FT

Lab Sample ID: 480-181318-4
Date Collected: 02/18/21 12:00
Matrix: Solid
Date Received: 02/19/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570175	02/21/21 13:10	DSC	TAL BUF

Client Sample ID: TP-5 1-3 FT

Lab Sample ID: 480-181318-4
Date Collected: 02/18/21 12:00
Matrix: Solid
Date Received: 02/19/21 12:10
Percent Solids: 69.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570232	02/22/21 15:22	ATG	TAL BUF
Total/NA	Analysis	8270D		5	570280	02/23/21 17:05	JMM	TAL BUF
Total/NA	Prep	3050B			570215	02/22/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570522	02/24/21 15:15	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:14	BMB	TAL BUF

Client Sample ID: TP-6 0-2 FT

Lab Sample ID: 480-181318-5
Date Collected: 02/18/21 14:00
Matrix: Solid
Date Received: 02/19/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570175	02/21/21 13:10	DSC	TAL BUF

Client Sample ID: TP-6 0-2 FT

Lab Sample ID: 480-181318-5
Date Collected: 02/18/21 14:00
Matrix: Solid
Date Received: 02/19/21 12:10
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570232	02/22/21 15:22	ATG	TAL BUF
Total/NA	Analysis	8270D		5	570280	02/23/21 17:29	JMM	TAL BUF
Total/NA	Prep	3050B			570215	02/22/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570522	02/24/21 15:30	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:16	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Legacy Grand Island

Job ID: 480-181318-1

Client Sample ID: TP-7 0-2 FT

Lab Sample ID: 480-181318-6

Date Collected: 02/18/21 13:00

Matrix: Solid

Date Received: 02/19/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570175	02/21/21 13:10	DSC	TAL BUF

Client Sample ID: TP-7 0-2 FT

Lab Sample ID: 480-181318-6

Date Collected: 02/18/21 13:00

Matrix: Solid

Date Received: 02/19/21 12:10

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570232	02/22/21 15:22	ATG	TAL BUF
Total/NA	Analysis	8270D		10	570280	02/23/21 17:54	JMM	TAL BUF
Total/NA	Prep	3050B			570215	02/22/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570522	02/24/21 15:34	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:17	BMB	TAL BUF

Client Sample ID: TP-8 0-2 FT

Lab Sample ID: 480-181318-7

Date Collected: 02/18/21 13:30

Matrix: Solid

Date Received: 02/19/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570175	02/21/21 13:10	DSC	TAL BUF

Client Sample ID: TP-8 0-2 FT

Lab Sample ID: 480-181318-7

Date Collected: 02/18/21 13:30

Matrix: Solid

Date Received: 02/19/21 12:10

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570232	02/22/21 15:22	ATG	TAL BUF
Total/NA	Analysis	8270D		10	570280	02/23/21 18:18	JMM	TAL BUF
Total/NA	Prep	3050B			570215	02/22/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570522	02/24/21 15:38	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:18	BMB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-181318-1
Project/Site: Legacy Grand Island

Laboratory: Eurofins TestAmerica, 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	03-31-21

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: Legacy Grand Island

Job ID: 480-181318-1

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

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-181318-1
Project/Site: Legacy Grand Island

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181318-1	TP-1 0-6 IN	Solid	02/18/21 09:00	02/19/21 12:10	
480-181318-2	TP-2 0-1 FT	Solid	02/18/21 10:00	02/19/21 12:10	
480-181318-3	TP-3 1-1.5 FT	Solid	02/18/21 11:00	02/19/21 12:10	
480-181318-4	TP-5 1-3 FT	Solid	02/18/21 12:00	02/19/21 12:10	
480-181318-5	TP-6 0-2 FT	Solid	02/18/21 14:00	02/19/21 12:10	
480-181318-6	TP-7 0-2 FT	Solid	02/18/21 13:00	02/19/21 12:10	
480-181318-7	TP-8 0-2 FT	Solid	02/18/21 13:30	02/19/21 12:10	

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

Chain of Custody Record

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Client Information	Sampler: Nick Sowa	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-156899-34590.1
Client Contact: Bryan Mayback	Phone: 716-713-3437	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 1 of 2
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike	Due Date Requested: Standard			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: ~~B0488-018-001~~ T0395-021-001			
Email: bmayback@bm-tk.com	WO #:			
Project Name: Benchmark - Grand Island Blvd. site	Project #: 48023385			
Site: Legacy grand Island	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	8260C - (MOD) TCL list OLM04.2 + CP-51	Number of containers	Instructions/Note:
			Preservation Code:				N	N		
TP-1 0-6 in	2/18/21	9:00	G	Solid			X			
TP-2 0-1 Ft		10:00		Solid			X			
TP-3 1-1.5 Ft		11:00		Solid			X			
TP-5 1-3 Ft		12:00		Solid			X			
TP-6 6-2 Ft		14:00		Solid			X			
TP-7 0-2 Ft		13:00		Solid			X			
TP-8 0-2 Ft		13:30		Solid			X			
TP-4 0-2 Ft	2/19/21	11:30	G	Solid						On Hold
				Solid						
				Solid						
				Solid						

480-181318 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	2/19/21 12:40	BMTK	[signature]	2/19/21 1240	TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.6 #1 ICE

Ver: 11.01.2020

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-181318-1

Login Number: 181318

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

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

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-181693-1
Client Project/Site: Benchmark - Grand Island Blvd. site

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

Attn: Bryan Mayback

Joseph V. Giacomazza

Authorized for release by:
3/12/2021 11:00:09 AM
Joe Giacomazza, Project Manager I
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-181693-1
Project/Site: Benchmark - Grand Island Blvd. site

Qualifiers

GC/MS Semi VOA

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

Metals

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

Glossary

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

Job ID: 480-181693-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-181693-1

Comments
No additional comments.

Receipt
The samples were received on 3/5/2021 3:45 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 3.2º C.

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to color, appearance, and viscosity: TP-10 0-2 ft (480-181693-2). Elevated reporting limits (RL) are provided.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TP-12 0-1 ft (480-181693-4). These results have been reported and qualified.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: TP-10 0-2 ft (480-181693-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

Metals
Method 6010C: The following sample was diluted due to the presence of Total Copper which interferes with Lead: TP-10 0-2 ft (480-181693-2). Elevated reporting limits (RLs) are provided.

Method 6010C: The following sample was diluted due to the presence of Total Iron which interferes with Cadmium, Chromium, and Lead: TP-14 3-3 (480-181693-6). Elevated reporting limits (RLs) are provided.

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

Organic Prep
Method 3550C: The following sample: TP-14 3-3ft (480-181693-6) was decanted prior to preparation .

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
Job ID: 480-181693-1
Project/Site: Benchmark - Grand Island Blvd. site

Client Sample ID: TP-9 0.5-1.5 ft — Lab Sample ID: 480-181693-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	150	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Anthracene	140	J	220	53	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	510		220	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	560		220	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	610		220	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	360		220	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	310		220	28	ug/Kg	1	☼	8270D	Total/NA
Chrysene	490		220	48	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	95	J	220	38	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1200		220	23	ug/Kg	1	☼	8270D	Total/NA
Fluorene	56	J	220	25	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	310		220	27	ug/Kg	1	☼	8270D	Total/NA
Pyrene	950		220	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	560		220	32	ug/Kg	1	☼	8270D	Total/NA
Arsenic	11.7		2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	127		0.66	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.81		0.26	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	33.6		0.66	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	54.6		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.91	J	5.2	0.52	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.11		0.024	0.0098	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-10 0-2 ft — Lab Sample ID: 480-181693-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	1400	J	4700	1200	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	5500		4700	470	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	6200		4700	690	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	7000		4700	740	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4900		4700	500	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	4200	J	4700	610	ug/Kg	20	☼	8270D	Total/NA
Chrysene	5700		4700	1000	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1600	J	4700	830	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	11000		4700	500	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4500	J	4700	580	ug/Kg	20	☼	8270D	Total/NA
Pyrene	9700		4700	550	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	5000		4700	690	ug/Kg	20	☼	8270D	Total/NA
Arsenic	10.6		2.8	0.56	mg/Kg	1	☼	6010C	Total/NA
Barium	184		0.70	0.15	mg/Kg	1	☼	6010C	Total/NA
Cadmium	56.8		0.28	0.042	mg/Kg	1	☼	6010C	Total/NA
Chromium	68.9		0.70	0.28	mg/Kg	1	☼	6010C	Total/NA
Lead	815		7.0	1.7	mg/Kg	5	☼	6010C	Total/NA
Selenium	1.7	J	5.6	0.56	mg/Kg	1	☼	6010C	Total/NA
Silver	3.5		0.84	0.28	mg/Kg	1	☼	6010C	Total/NA
Mercury	4.4		0.14	0.057	mg/Kg	5	☼	7471B	Total/NA

Client Sample ID: TP-12 0-1 ft — Lab Sample ID: 480-181693-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	220	J	230	29	ug/Kg	1	☼	8270D	Total/NA
Anthracene	190	J	230	56	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	700		230	23	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-12 0-1 ft (Continued) — Lab Sample ID: 480-181693-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	750		230	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	800		230	36	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	450		230	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	400		230	29	ug/Kg	1	☼	8270D	Total/NA
Chrysene	690		230	51	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	150	J	230	40	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1500		230	24	ug/Kg	1	☼	8270D	Total/NA
Fluorene	77	J	230	27	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	430		230	28	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1200		230	27	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	720		230	33	ug/Kg	1	☼	8270D	Total/NA
Arsenic	13.0		2.8	0.56	mg/Kg	1	☼	6010C	Total/NA
Barium	104		0.70	0.15	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.0		0.28	0.042	mg/Kg	1	☼	6010C	Total/NA
Chromium	42.6		0.70	0.28	mg/Kg	1	☼	6010C	Total/NA
Lead	122		1.4	0.33	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.70	J	5.6	0.56	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.21		0.027	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-14 3-3 ft — Lab Sample ID: 480-181693-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15.3		2.7	0.55	mg/Kg	1	☼	6010C	Total/NA
Barium	776		0.69	0.15	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.35	J	0.55	0.082	mg/Kg	2	☼	6010C	Total/NA
Chromium	154		1.4	0.55	mg/Kg	2	☼	6010C	Total/NA
Lead	10.1		2.7	0.66	mg/Kg	2	☼	6010C	Total/NA
Mercury	0.027		0.025	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-15 2-3 ft — Lab Sample ID: 480-181693-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	29.0		3.9	0.77	mg/Kg	1	☼	6010C	Total/NA
Barium	230		0.97	0.21	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.40		0.39	0.058	mg/Kg	1	☼	6010C	Total/NA
Chromium	30.1		0.97	0.39	mg/Kg	1	☼	6010C	Total/NA
Lead	11.7		1.9	0.46	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.1	J	7.7	0.77	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.20		0.034	0.014	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-16 0-2 ft — Lab Sample ID: 480-181693-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	30.2		2.8	0.56	mg/Kg	1	☼	6010C	Total/NA
Barium	394		0.70	0.15	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.28		0.28	0.042	mg/Kg	1	☼	6010C	Total/NA
Chromium	35.7		0.70	0.28	mg/Kg	1	☼	6010C	Total/NA
Lead	10.8		1.4	0.34	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.81	J	5.6	0.56	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.077		0.026	0.010	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Grand Island Blvd. site

Job ID: 480-181693-1

Client Sample ID: TP-9 0.5-1.5 ft
Date Collected: 03/04/21 09:00
Date Received: 03/05/21 15:45

Lab Sample ID: 480-181693-1
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		220	32	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Acenaphthylene	**150**	**J**	220	28	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Anthracene	**140**	**J**	220	53	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Benzo[a]anthracene	**510**		220	22	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Benzo[a]pyrene	**560**		220	32	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Benzo[b]fluoranthene	**610**		220	34	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Benzo[g,h,i]perylene	**360**		220	23	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Benzo[k]fluoranthene	**310**		220	28	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Chrysene	**490**		220	48	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Dibenz(a,h)anthracene	**95**	**J**	220	38	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Fluoranthene	**1200**		220	23	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Fluorene	**56**	**J**	220	25	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Indeno[1,2,3-cd]pyrene	**310**		220	27	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Naphthalene	ND		220	28	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Pyrene	**950**		220	25	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1
Phenanthrene	**560**		220	32	ug/Kg	☼	03/08/21 07:56	03/09/21 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*54 - 120*	*03/08/21 07:56*	*03/09/21 16:09*	*1*
2-Fluorobiphenyl	*98*		*60 - 120*	*03/08/21 07:56*	*03/09/21 16:09*	*1*
2-Fluorophenol (Surr)	*110*		*52 - 120*	*03/08/21 07:56*	*03/09/21 16:09*	*1*
Phenol-d5 (Surr)	*91*		*54 - 120*	*03/08/21 07:56*	*03/09/21 16:09*	*1*
p-Terphenyl-d14 (Surr)	*104*		*79 - 130*	*03/08/21 07:56*	*03/09/21 16:09*	*1*
Nitrobenzene-d5 (Surr)	*93*		*53 - 120*	*03/08/21 07:56*	*03/09/21 16:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11.7**		2.6	0.52	mg/Kg	☼	03/08/21 15:02	03/09/21 17:52	1
Barium	**127**		0.66	0.14	mg/Kg	☼	03/08/21 15:02	03/09/21 17:52	1
Cadmium	**0.81**		0.26	0.039	mg/Kg	☼	03/08/21 15:02	03/09/21 17:52	1
Chromium	**33.6**		0.66	0.26	mg/Kg	☼	03/08/21 15:02	03/09/21 17:52	1
Lead	**54.6**		1.3	0.31	mg/Kg	☼	03/08/21 15:02	03/09/21 17:52	1
Selenium	**0.91**	**J**	5.2	0.52	mg/Kg	☼	03/08/21 15:02	03/09/21 17:52	1
Silver	ND		0.79	0.26	mg/Kg	☼	03/08/21 15:02	03/09/21 17:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.024	0.0098	mg/Kg	☼	03/10/21 13:40	03/10/21 15:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Grand Island Blvd. site

Job ID: 480-181693-1

Client Sample ID: TP-10 0-2 ft
Date Collected: 03/04/21 10:00
Date Received: 03/05/21 15:45

Lab Sample ID: 480-181693-2
Matrix: Solid
Percent Solids: 70.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4700	690	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Acenaphthylene	ND		4700	610	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Anthracene	**1400**	**J**	4700	1200	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Benzo[a]anthracene	**5500**		4700	470	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Benzo[a]pyrene	**6200**		4700	690	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Benzo[b]fluoranthene	**7000**		4700	740	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Benzo[g,h,i]perylene	**4900**		4700	500	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Benzo[k]fluoranthene	**4200**	**J**	4700	610	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Chrysene	**5700**		4700	1000	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Dibenz(a,h)anthracene	**1600**	**J**	4700	830	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Fluoranthene	**11000**		4700	500	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Fluorene	ND		4700	550	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Indeno[1,2,3-cd]pyrene	**4500**	**J**	4700	580	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Naphthalene	ND		4700	610	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Pyrene	**9700**		4700	550	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20
Phenanthrene	**5000**		4700	690	ug/Kg	☼	03/08/21 07:56	03/09/21 16:33	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*03/08/21 07:56*	*03/09/21 16:33*	*20*
2-Fluorobiphenyl	*96*		*60 - 120*	*03/08/21 07:56*	*03/09/21 16:33*	*20*
2-Fluorophenol (Surr)	*103*		*52 - 120*	*03/08/21 07:56*	*03/09/21 16:33*	*20*
Phenol-d5 (Surr)	*122*	*S1+*	*54 - 120*	*03/08/21 07:56*	*03/09/21 16:33*	*20*
p-Terphenyl-d14 (Surr)	*108*		*79 - 130*	*03/08/21 07:56*	*03/09/21 16:33*	*20*
Nitrobenzene-d5 (Surr)	*90*		*53 - 120*	*03/08/21 07:56*	*03/09/21 16:33*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**10.6**		2.8	0.56	mg/Kg	☼	03/08/21 15:02	03/09/21 17:56	1
Barium	**184**		0.70	0.15	mg/Kg	☼	03/08/21 15:02	03/09/21 17:56	1
Cadmium	**56.8**		0.28	0.042	mg/Kg	☼	03/08/21 15:02	03/09/21 17:56	1
Chromium	**68.9**		0.70	0.28	mg/Kg	☼	03/08/21 15:02	03/09/21 17:56	1
Lead	**815**		7.0	1.7	mg/Kg	☼	03/08/21 15:02	03/10/21 11:47	5
Selenium	**1.7**	**J**	5.6	0.56	mg/Kg	☼	03/08/21 15:02	03/09/21 17:56	1
Silver	**3.5**		0.84	0.28	mg/Kg	☼	03/08/21 15:02	03/09/21 17:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.4**		0.14	0.057	mg/Kg	☼	03/10/21 13:40	03/10/21 15:39	5

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Grand Island Blvd. site

Job ID: 480-181693-1

Client Sample ID: TP-12 0-1 ft
Date Collected: 03/04/21 12:00
Date Received: 03/05/21 15:45

Lab Sample ID: 480-181693-4
Matrix: Solid
Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		230	33	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Acenaphthylene	**220**	**J**	230	29	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Anthracene	**190**	**J**	230	56	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Benzo[a]anthracene	**700**		230	23	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Benzo[a]pyrene	**750**		230	33	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Benzo[b]fluoranthene	**800**		230	36	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Benzo[g,h,i]perylene	**450**		230	24	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Benzo[k]fluoranthene	**400**		230	29	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Chrysene	**690**		230	51	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Dibenz(a,h)anthracene	**150**	**J**	230	40	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Fluoranthene	**1500**		230	24	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Fluorene	**77**	**J**	230	27	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Indeno[1,2,3-cd]pyrene	**430**		230	28	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Naphthalene	ND		230	29	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Pyrene	**1200**		230	27	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1
Phenanthrene	**720**		230	33	ug/Kg	☼	03/08/21 07:56	03/09/21 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*54 - 120*	*03/08/21 07:56*	*03/09/21 16:57*	*1*
2-Fluorobiphenyl	*107*		*60 - 120*	*03/08/21 07:56*	*03/09/21 16:57*	*1*
2-Fluorophenol (Surr)	*122*	*S1+*	*52 - 120*	*03/08/21 07:56*	*03/09/21 16:57*	*1*
Phenol-d5 (Surr)	*96*		*54 - 120*	*03/08/21 07:56*	*03/09/21 16:57*	*1*
p-Terphenyl-d14 (Surr)	*106*		*79 - 130*	*03/08/21 07:56*	*03/09/21 16:57*	*1*
Nitrobenzene-d5 (Surr)	*99*		*53 - 120*	*03/08/21 07:56*	*03/09/21 16:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13.0**		2.8	0.56	mg/Kg	☼	03/08/21 15:02	03/09/21 18:04	1
Barium	**104**		0.70	0.15	mg/Kg	☼	03/08/21 15:02	03/09/21 18:04	1
Cadmium	**1.0**		0.28	0.042	mg/Kg	☼	03/08/21 15:02	03/09/21 18:04	1
Chromium	**42.6**		0.70	0.28	mg/Kg	☼	03/08/21 15:02	03/09/21 18:04	1
Lead	**122**		1.4	0.33	mg/Kg	☼	03/08/21 15:02	03/09/21 18:04	1
Selenium	**0.70**	**J**	5.6	0.56	mg/Kg	☼	03/08/21 15:02	03/09/21 18:04	1
Silver	ND		0.84	0.28	mg/Kg	☼	03/08/21 15:02	03/09/21 18:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.027	0.011	mg/Kg	☼	03/10/21 13:40	03/10/21 15:17	1

Client Sample ID: TP-14 3-3 ft
Lab Sample ID: 480-181693-6
Date Collected: 03/04/21 13:00
Matrix: Solid
Date Received: 03/05/21 15:45
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		220	33	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Acenaphthylene	ND		220	29	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Anthracene	ND		220	55	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Benzo[a]anthracene	ND		220	22	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Benzo[a]pyrene	ND		220	33	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Benzo[b]fluoranthene	ND		220	36	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Benzo[g,h,i]perylene	ND		220	24	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Benzo[k]fluoranthene	ND		220	29	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Chrysene	ND		220	50	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Dibenz(a,h)anthracene	ND		220	39	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Fluoranthene	ND		220	24	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Fluorene	ND		220	26	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Indeno[1,2,3-cd]pyrene	ND		220	28	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Naphthalene	ND		220	29	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Pyrene	ND		220	26	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1
Phenanthrene	ND		220	33	ug/Kg	☼	03/08/21 07:56	03/09/21 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*54 - 120*	*03/08/21 07:56*	*03/09/21 17:22*	*1*
2-Fluorobiphenyl	*101*		*60 - 120*	*03/08/21 07:56*	*03/09/21 17:22*	*1*
2-Fluorophenol (Surr)	*77*		*52 - 120*	*03/08/21 07:56*	*03/09/21 17:22*	*1*
Phenol-d5 (Surr)	*74*		*54 - 120*	*03/08/21 07:56*	*03/09/21 17:22*	*1*
p-Terphenyl-d14 (Surr)	*105*		*79 - 130*	*03/08/21 07:56*	*03/09/21 17:22*	*1*
Nitrobenzene-d5 (Surr)	*81*		*53 - 120*	*03/08/21 07:56*	*03/09/21 17:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**15.3**		2.7	0.55	mg/Kg	☼	03/08/21 15:02	03/09/21 18:23	1
Barium	**776**		0.69	0.15	mg/Kg	☼	03/08/21 15:02	03/09/21 18:23	1
Cadmium	**0.35**	**J**	0.55	0.082	mg/Kg	☼	03/08/21 15:02	03/10/21 11:51	2
Chromium	**154**		1.4	0.55	mg/Kg	☼	03/08/21 15:02	03/10/21 11:51	2
Lead	**10.1**		2.7	0.66	mg/Kg	☼	03/08/21 15:02	03/10/21 11:51	2
Selenium	ND		5.5	0.55	mg/Kg	☼	03/08/21 15:02	03/09/21 18:23	1
Silver	ND		0.82	0.27	mg/Kg	☼	03/08/21 15:02	03/09/21 18:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.025	0.010	mg/Kg	☼	03/10/21 13:40	03/10/21 15:22	1

Client Sample ID: TP-15 2-3 ft
Lab Sample ID: 480-181693-7
Date Collected: 03/04/21 13:30
Matrix: Solid
Date Received: 03/05/21 15:45
Percent Solids: 54.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		310	46	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Acenaphthylene	ND		310	40	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Anthracene	ND		310	77	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Benzo[a]anthracene	ND		310	31	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Benzo[a]pyrene	ND		310	46	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Benzo[b]fluoranthene	ND		310	49	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Benzo[g,h,i]perylene	ND		310	33	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Benzo[k]fluoranthene	ND		310	40	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Chrysene	ND		310	70	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Dibenz(a,h)anthracene	ND		310	55	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Fluoranthene	ND		310	33	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Fluorene	ND		310	37	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Indeno[1,2,3-cd]pyrene	ND		310	38	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Naphthalene	ND		310	40	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Pyrene	ND		310	37	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1
Phenanthrene	ND		310	46	ug/Kg	☼	03/08/21 07:56	03/09/21 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*54 - 120*	*03/08/21 07:56*	*03/09/21 17:47*	*1*
2-Fluorobiphenyl	*91*		*60 - 120*	*03/08/21 07:56*	*03/09/21 17:47*	*1*
2-Fluorophenol (Surr)	*87*		*52 - 120*	*03/08/21 07:56*	*03/09/21 17:47*	*1*
Phenol-d5 (Surr)	*65*		*54 - 120*	*03/08/21 07:56*	*03/09/21 17:47*	*1*
p-Terphenyl-d14 (Surr)	*95*		*79 - 130*	*03/08/21 07:56*	*03/09/21 17:47*	*1*
Nitrobenzene-d5 (Surr)	*68*		*53 - 120*	*03/08/21 07:56*	*03/09/21 17:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**29.0**		3.9	0.77	mg/Kg	☼	03/08/21 15:02	03/09/21 18:27	1
Barium	**230**		0.97	0.21	mg/Kg	☼	03/08/21 15:02	03/09/21 18:27	1
Cadmium	**0.40**		0.39	0.058	mg/Kg	☼	03/08/21 15:02	03/09/21 18:27	1
Chromium	**30.1**		0.97	0.39	mg/Kg	☼	03/08/21 15:02	03/09/21 18:27	1
Lead	**11.7**		1.9	0.46	mg/Kg	☼	03/08/21 15:02	03/09/21 18:27	1
Selenium	**1.1**	**J**	7.7	0.77	mg/Kg	☼	03/08/21 15:02	03/09/21 18:27	1
Silver	ND		1.2	0.39	mg/Kg	☼	03/08/21 15:02	03/09/21 18:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.034	0.014	mg/Kg	☼	03/10/21 13:40	03/10/21 15:24	1

Client Sample ID: TP-16 0-2 ft
Lab Sample ID: 480-181693-8
Date Collected: 03/04/21 14:00
Matrix: Solid
Date Received: 03/05/21 15:45
Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		230	34	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Acenaphthylene	ND		230	30	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Anthracene	ND		230	58	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Benzo[a]anthracene	ND		230	23	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Benzo[a]pyrene	ND		230	34	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Benzo[b]fluoranthene	ND		230	37	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Benzo[g,h,i]perylene	ND		230	25	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Benzo[k]fluoranthene	ND		230	30	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Chrysene	ND		230	52	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Dibenz(a,h)anthracene	ND		230	41	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Fluoranthene	ND		230	25	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Fluorene	ND		230	27	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Indeno[1,2,3-cd]pyrene	ND		230	29	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Naphthalene	ND		230	30	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Pyrene	ND		230	27	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1
Phenanthrene	ND		230	34	ug/Kg	☼	03/08/21 07:56	03/09/21 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*54 - 120*	*03/08/21 07:56*	*03/09/21 18:12*	*1*
2-Fluorobiphenyl	*98*		*60 - 120*	*03/08/21 07:56*	*03/09/21 18:12*	*1*
2-Fluorophenol (Surr)	*75*		*52 - 120*	*03/08/21 07:56*	*03/09/21 18:12*	*1*
Phenol-d5 (Surr)	*68*		*54 - 120*	*03/08/21 07:56*	*03/09/21 18:12*	*1*
p-Terphenyl-d14 (Surr)	*109*		*79 - 130*	*03/08/21 07:56*	*03/09/21 18:12*	*1*
Nitrobenzene-d5 (Surr)	*78*		*53 - 120*	*03/08/21 07:56*	*03/09/21 18:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**30.2**		2.8	0.56	mg/Kg	☼	03/08/21 15:02	03/09/21 18:30	1
Barium	**394**		0.70	0.15	mg/Kg	☼	03/08/21 15:02	03/09/21 18:30	1
Cadmium	**0.28**		0.28	0.042	mg/Kg	☼	03/08/21 15:02	03/09/21 18:30	1
Chromium	**35.7**		0.70	0.28	mg/Kg	☼	03/08/21 15:02	03/09/21 18:30	1
Lead	**10.8**		1.4	0.34	mg/Kg	☼	03/08/21 15:02	03/09/21 18:30	1
Selenium	**0.81**	**J**	5.6	0.56	mg/Kg	☼	03/08/21 15:02	03/09/21 18:30	1
Silver	ND		0.84	0.28	mg/Kg	☼	03/08/21 15:02	03/09/21 18:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.077**		0.026	0.010	mg/Kg	☼	03/10/21 13:40	03/10/21 15:25	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-181693-1
Project/Site: Benchmark - Grand Island Blvd. site

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	PHL	TPHd14	NBZ
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(54-120)	(79-130)	(53-120)
480-181693-1	TP-9 0.5-1.5 ft	92	98	110	91	104	93
480-181693-2	TP-10 0-2 ft	0 S1-	96	103	122 S1+	108	90
480-181693-4	TP-12 0-1 ft	73	107	122 S1+	96	106	99
480-181693-6	TP-14 3-3 ft	72	101	77	74	105	81
480-181693-7	TP-15 2-3 ft	77	91	87	65	95	68
480-181693-8	TP-16 0-2 ft	102	98	75	68	109	78
LCS 480-571616/2-A	Lab Control Sample	103	101	91	89	105	92
MB 480-571616/1-A	Method Blank	88	90	78	79	99	78

Surrogate Legend

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

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

Lab Sample ID: MB 480-571616/1-A
Matrix: Solid
Analysis Batch: 571655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	25	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Acenaphthylene	ND		170	22	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Anthracene	ND		170	42	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Benzo[a]anthracene	ND		170	17	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Benzo[a]pyrene	ND		170	25	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Chrysene	ND		170	38	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Fluoranthene	ND		170	18	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Fluorene	ND		170	20	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Naphthalene	ND		170	22	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Pyrene	ND		170	20	ug/Kg		03/08/21 07:56	03/08/21 19:36	1
Phenanthrene	ND		170	25	ug/Kg		03/08/21 07:56	03/08/21 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*54 - 120*	*03/08/21 07:56*	*03/08/21 19:36*	*1*
2-Fluorobiphenyl	*90*		*60 - 120*	*03/08/21 07:56*	*03/08/21 19:36*	*1*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*03/08/21 07:56*	*03/08/21 19:36*	*1*
Phenol-d5 (Surr)	*79*		*54 - 120*	*03/08/21 07:56*	*03/08/21 19:36*	*1*
p-Terphenyl-d14 (Surr)	*99*		*79 - 130*	*03/08/21 07:56*	*03/08/21 19:36*	*1*
Nitrobenzene-d5 (Surr)	*78*		*53 - 120*	*03/08/21 07:56*	*03/08/21 19:36*	*1*

Lab Sample ID: LCS 480-571616/2-A
Matrix: Solid
Analysis Batch: 571655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1660	1630		ug/Kg		98	62 - 120
Acenaphthylene	1660	1620		ug/Kg		97	58 - 121
Anthracene	1660	1710		ug/Kg		103	62 - 120
Benzo[a]anthracene	1660	1720		ug/Kg		104	65 - 120
Benzo[a]pyrene	1660	1760		ug/Kg		105	64 - 120
Benzo[b]fluoranthene	1660	1660		ug/Kg		100	64 - 120
Benzo[g,h,i]perylene	1660	1980		ug/Kg		119	45 - 145
Benzo[k]fluoranthene	1660	1630		ug/Kg		98	65 - 120
Chrysene	1660	1790		ug/Kg		107	64 - 120
Dibenz(a,h)anthracene	1660	2000		ug/Kg		120	54 - 132
Fluoranthene	1660	1800		ug/Kg		108	62 - 120
Fluorene	1660	1660		ug/Kg		100	63 - 120
Indeno[1,2,3-cd]pyrene	1660	2000		ug/Kg		120	56 - 134
Naphthalene	1660	1510		ug/Kg		91	55 - 120
Pyrene	1660	1790		ug/Kg		108	61 - 133
Phenanthrene	1660	1700		ug/Kg		102	60 - 120

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

Lab Sample ID: LCS 480-571616/2-A
Matrix: Solid
Analysis Batch: 571655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571616

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*54 - 120*
2-Fluorobiphenyl	*101*		*60 - 120*
2-Fluorophenol (Surr)	*91*		*52 - 120*
Phenol-d5 (Surr)	*89*		*54 - 120*
p-Terphenyl-d14 (Surr)	*105*		*79 - 130*
Nitrobenzene-d5 (Surr)	*92*		*53 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-571700/1-A
Matrix: Solid
Analysis Batch: 571945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.9	0.38	mg/Kg		03/08/21 15:02	03/09/21 16:07	1
Barium	ND		0.48	0.11	mg/Kg		03/08/21 15:02	03/09/21 16:07	1
Cadmium	ND		0.19	0.029	mg/Kg		03/08/21 15:02	03/09/21 16:07	1
Chromium	ND		0.48	0.19	mg/Kg		03/08/21 15:02	03/09/21 16:07	1
Lead	ND		0.96	0.23	mg/Kg		03/08/21 15:02	03/09/21 16:07	1
Selenium	ND		3.8	0.38	mg/Kg		03/08/21 15:02	03/09/21 16:07	1
Silver	ND		0.58	0.19	mg/Kg		03/08/21 15:02	03/09/21 16:07	1

Lab Sample ID: LCSSRM 480-571700/2-A
Matrix: Solid
Analysis Batch: 571945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571700

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	162	146.4		mg/Kg		90.4	70.4 - 130.2
Barium	138	126.8		mg/Kg		91.8	74.6 - 124.6
Cadmium	135	128.0		mg/Kg		94.8	74.8 - 124.4
Chromium	117	102.7		mg/Kg		87.8	70.1 - 129.9
Lead	77.6	78.65		mg/Kg		101.4	68.8 - 131.4
Selenium	172	159.5		mg/Kg		92.7	68.0 - 132.6
Silver	24.7	20.64		mg/Kg		83.6	67.2 - 133.2

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-571885/1-A
Matrix: Solid
Analysis Batch: 572039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0079	mg/Kg		03/10/21 13:40	03/10/21 15:05	1

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

Lab Sample ID: LCSSRM 480-571885/2-A ^10
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 572039
Prep Batch: 571885

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			27.2	29.05		mg/Kg		106.8	59.9 - 140.1		

Lab Sample ID: 480-181693-1 MS
Client Sample ID: TP-9 0.5-1.5 ft
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 572039
Prep Batch: 571885

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.11		0.373	0.469		mg/Kg	☼	95	80 - 120		

Lab Sample ID: 480-181693-1 MSD
Client Sample ID: TP-9 0.5-1.5 ft
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 572039
Prep Batch: 571885

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.11		0.424	0.495		mg/Kg	☼	90	80 - 120	5	20

GC/MS Semi VOA

Prep Batch: 571616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181693-1	TP-9 0.5-1.5 ft	Total/NA	Solid	3550C	
480-181693-2	TP-10 0-2 ft	Total/NA	Solid	3550C	
480-181693-4	TP-12 0-1 ft	Total/NA	Solid	3550C	
480-181693-6	TP-14 3-3 ft	Total/NA	Solid	3550C	
480-181693-7	TP-15 2-3 ft	Total/NA	Solid	3550C	
480-181693-8	TP-16 0-2 ft	Total/NA	Solid	3550C	
MB 480-571616/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-571616/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 571655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-571616/1-A	Method Blank	Total/NA	Solid	8270D	571616
LCS 480-571616/2-A	Lab Control Sample	Total/NA	Solid	8270D	571616

Analysis Batch: 571826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181693-1	TP-9 0.5-1.5 ft	Total/NA	Solid	8270D	571616
480-181693-2	TP-10 0-2 ft	Total/NA	Solid	8270D	571616
480-181693-4	TP-12 0-1 ft	Total/NA	Solid	8270D	571616
480-181693-6	TP-14 3-3 ft	Total/NA	Solid	8270D	571616
480-181693-7	TP-15 2-3 ft	Total/NA	Solid	8270D	571616
480-181693-8	TP-16 0-2 ft	Total/NA	Solid	8270D	571616

Metals

Prep Batch: 571700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181693-1	TP-9 0.5-1.5 ft	Total/NA	Solid	3050B	
480-181693-2	TP-10 0-2 ft	Total/NA	Solid	3050B	
480-181693-4	TP-12 0-1 ft	Total/NA	Solid	3050B	
480-181693-6	TP-14 3-3 ft	Total/NA	Solid	3050B	
480-181693-7	TP-15 2-3 ft	Total/NA	Solid	3050B	
480-181693-8	TP-16 0-2 ft	Total/NA	Solid	3050B	
MB 480-571700/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-571700/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 571885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181693-1	TP-9 0.5-1.5 ft	Total/NA	Solid	7471B	
480-181693-2	TP-10 0-2 ft	Total/NA	Solid	7471B	
480-181693-4	TP-12 0-1 ft	Total/NA	Solid	7471B	
480-181693-6	TP-14 3-3 ft	Total/NA	Solid	7471B	
480-181693-7	TP-15 2-3 ft	Total/NA	Solid	7471B	
480-181693-8	TP-16 0-2 ft	Total/NA	Solid	7471B	
MB 480-571885/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-571885/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-181693-1 MS	TP-9 0.5-1.5 ft	Total/NA	Solid	7471B	
480-181693-1 MSD	TP-9 0.5-1.5 ft	Total/NA	Solid	7471B	

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-181693-1
Project/Site: Benchmark - Grand Island Blvd. site

Metals

Analysis Batch: 571945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181693-1	TP-9 0.5-1.5 ft	Total/NA	Solid	6010C	571700
480-181693-2	TP-10 0-2 ft	Total/NA	Solid	6010C	571700
480-181693-4	TP-12 0-1 ft	Total/NA	Solid	6010C	571700
480-181693-6	TP-14 3-3 ft	Total/NA	Solid	6010C	571700
480-181693-7	TP-15 2-3 ft	Total/NA	Solid	6010C	571700
480-181693-8	TP-16 0-2 ft	Total/NA	Solid	6010C	571700
MB 480-571700/1-A	Method Blank	Total/NA	Solid	6010C	571700
LCSSRM 480-571700/2-A	Lab Control Sample	Total/NA	Solid	6010C	571700

Analysis Batch: 572039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181693-1	TP-9 0.5-1.5 ft	Total/NA	Solid	7471B	571885
480-181693-2	TP-10 0-2 ft	Total/NA	Solid	7471B	571885
480-181693-4	TP-12 0-1 ft	Total/NA	Solid	7471B	571885
480-181693-6	TP-14 3-3 ft	Total/NA	Solid	7471B	571885
480-181693-7	TP-15 2-3 ft	Total/NA	Solid	7471B	571885
480-181693-8	TP-16 0-2 ft	Total/NA	Solid	7471B	571885
MB 480-571885/1-A	Method Blank	Total/NA	Solid	7471B	571885
LCSSRM 480-571885/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	571885
480-181693-1 MS	TP-9 0.5-1.5 ft	Total/NA	Solid	7471B	571885
480-181693-1 MSD	TP-9 0.5-1.5 ft	Total/NA	Solid	7471B	571885

Analysis Batch: 572127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181693-2	TP-10 0-2 ft	Total/NA	Solid	6010C	571700
480-181693-6	TP-14 3-3 ft	Total/NA	Solid	6010C	571700

General Chemistry

Analysis Batch: 571532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181693-1	TP-9 0.5-1.5 ft	Total/NA	Solid	Moisture	
480-181693-2	TP-10 0-2 ft	Total/NA	Solid	Moisture	
480-181693-4	TP-12 0-1 ft	Total/NA	Solid	Moisture	
480-181693-6	TP-14 3-3 ft	Total/NA	Solid	Moisture	
480-181693-7	TP-15 2-3 ft	Total/NA	Solid	Moisture	
480-181693-8	TP-16 0-2 ft	Total/NA	Solid	Moisture	
480-181693-8 MS	TP-16 0-2 ft	Total/NA	Solid	Moisture	
480-181693-8 MSD	TP-16 0-2 ft	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Grand Island Blvd. site

Job ID: 480-181693-1

Client Sample ID: TP-9 0.5-1.5 ft

Lab Sample ID: 480-181693-1
Date Collected: 03/04/21 09:00
Matrix: Solid
Date Received: 03/05/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	571532	03/05/21 14:40	CLA	TAL BUF

Client Sample ID: TP-9 0.5-1.5 ft

Lab Sample ID: 480-181693-1
Date Collected: 03/04/21 09:00
Matrix: Solid
Date Received: 03/05/21 15:45
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			571616	03/08/21 07:56	VXF	TAL BUF
Total/NA	Analysis	8270D		1	571826	03/09/21 16:09	JMM	TAL BUF
Total/NA	Prep	3050B			571700	03/08/21 15:02	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571945	03/09/21 17:52	AMH	TAL BUF
Total/NA	Prep	7471B			571885	03/10/21 13:40	BMB	TAL BUF
Total/NA	Analysis	7471B		1	572039	03/10/21 15:08	BMB	TAL BUF

Client Sample ID: TP-10 0-2 ft

Lab Sample ID: 480-181693-2
Date Collected: 03/04/21 10:00
Matrix: Solid
Date Received: 03/05/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	571532	03/05/21 14:40	CLA	TAL BUF

Client Sample ID: TP-10 0-2 ft

Lab Sample ID: 480-181693-2
Date Collected: 03/04/21 10:00
Matrix: Solid
Date Received: 03/05/21 15:45
Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			571616	03/08/21 07:56	VXF	TAL BUF
Total/NA	Analysis	8270D		20	571826	03/09/21 16:33	JMM	TAL BUF
Total/NA	Prep	3050B			571700	03/08/21 15:02	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571945	03/09/21 17:56	AMH	TAL BUF
Total/NA	Prep	3050B			571700	03/08/21 15:02	ADM	TAL BUF
Total/NA	Analysis	6010C		5	572127	03/10/21 11:47	AMH	TAL BUF
Total/NA	Prep	7471B			571885	03/10/21 13:40	BMB	TAL BUF
Total/NA	Analysis	7471B		5	572039	03/10/21 15:39	BMB	TAL BUF

Client Sample ID: TP-12 0-1 ft

Lab Sample ID: 480-181693-4
Date Collected: 03/04/21 12:00
Matrix: Solid
Date Received: 03/05/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	571532	03/05/21 14:40	CLA	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Grand Island Blvd. site

Job ID: 480-181693-1

Client Sample ID: TP-12 0-1 ft

Lab Sample ID: 480-181693-4
Date Collected: 03/04/21 12:00
Matrix: Solid
Date Received: 03/05/21 15:45
Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			571616	03/08/21 07:56	VXF	TAL BUF
Total/NA	Analysis	8270D		1	571826	03/09/21 16:57	JMM	TAL BUF
Total/NA	Prep	3050B			571700	03/08/21 15:02	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571945	03/09/21 18:04	AMH	TAL BUF
Total/NA	Prep	7471B			571885	03/10/21 13:40	BMB	TAL BUF
Total/NA	Analysis	7471B		1	572039	03/10/21 15:17	BMB	TAL BUF

Client Sample ID: TP-14 3-3 ft

Lab Sample ID: 480-181693-6
Date Collected: 03/04/21 13:00
Matrix: Solid
Date Received: 03/05/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	571532	03/05/21 14:40	CLA	TAL BUF

Client Sample ID: TP-14 3-3 ft

Lab Sample ID: 480-181693-6
Date Collected: 03/04/21 13:00
Matrix: Solid
Date Received: 03/05/21 15:45
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			571616	03/08/21 07:56	VXF	TAL BUF
Total/NA	Analysis	8270D		1	571826	03/09/21 17:22	JMM	TAL BUF
Total/NA	Prep	3050B			571700	03/08/21 15:02	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571945	03/09/21 18:23	AMH	TAL BUF
Total/NA	Prep	3050B			571700	03/08/21 15:02	ADM	TAL BUF
Total/NA	Analysis	6010C		2	572127	03/10/21 11:51	AMH	TAL BUF
Total/NA	Prep	7471B			571885	03/10/21 13:40	BMB	TAL BUF
Total/NA	Analysis	7471B		1	572039	03/10/21 15:22	BMB	TAL BUF

Client Sample ID: TP-15 2-3 ft

Lab Sample ID: 480-181693-7
Date Collected: 03/04/21 13:30
Matrix: Solid
Date Received: 03/05/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	571532	03/05/21 14:40	CLA	TAL BUF

Client Sample ID: TP-15 2-3 ft

Lab Sample ID: 480-181693-7
Date Collected: 03/04/21 13:30
Matrix: Solid
Date Received: 03/05/21 15:45
Percent Solids: 54.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			571616	03/08/21 07:56	VXF	TAL BUF
Total/NA	Analysis	8270D		1	571826	03/09/21 17:47	JMM	TAL BUF
Total/NA	Prep	3050B			571700	03/08/21 15:02	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571945	03/09/21 18:27	AMH	TAL BUF
Total/NA	Prep	7471B			571885	03/10/21 13:40	BMB	TAL BUF
Total/NA	Analysis	7471B		1	572039	03/10/21 15:24	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Grand Island Blvd. site

Job ID: 480-181693-1

Client Sample ID: TP-16 0-2 ft

Lab Sample ID: 480-181693-8

Date Collected: 03/04/21 14:00
Matrix: Solid
Date Received: 03/05/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	571532	03/05/21 14:40	CLA	TAL BUF

Client Sample ID: TP-16 0-2 ft

Lab Sample ID: 480-181693-8

Date Collected: 03/04/21 14:00
Matrix: Solid
Date Received: 03/05/21 15:45
Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			571616	03/08/21 07:56	VXF	TAL BUF
Total/NA	Analysis	8270D		1	571826	03/09/21 18:12	JMM	TAL BUF
Total/NA	Prep	3050B			571700	03/08/21 15:02	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571945	03/09/21 18:30	AMH	TAL BUF
Total/NA	Prep	7471B			571885	03/10/21 13:40	BMB	TAL BUF
Total/NA	Analysis	7471B		1	572039	03/10/21 15:25	BMB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-181693-1
Project/Site: Benchmark - Grand Island Blvd. site

Laboratory: Eurofins TestAmerica, 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	03-31-21

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
Job ID: 480-181693-1
Project/Site: Benchmark - Grand Island Blvd. site

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

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-181693-1
Project/Site: Benchmark - Grand Island Blvd. site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181693-1	TP-9 0.5-1.5 ft	Solid	03/04/21 09:00	03/05/21 15:45	
480-181693-2	TP-10 0-2 ft	Solid	03/04/21 10:00	03/05/21 15:45	
480-181693-4	TP-12 0-1 ft	Solid	03/04/21 12:00	03/05/21 15:45	
480-181693-6	TP-14 3-3 ft	Solid	03/04/21 13:00	03/05/21 15:45	
480-181693-7	TP-15 2-3 ft	Solid	03/04/21 13:30	03/05/21 15:45	
480-181693-8	TP-16 0-2 ft	Solid	03/04/21 14:00	03/05/21 15:45	

Chain of Custody Record

Client Information	Sampler: Nick Sucha	Lab PM: Brian Fischer	Carrier Tracking No(s):	COC No:
Client Contact: Turnkey Env. Restoration	Phone: 716-713-3937	E-Mail:	State of Origin:	Page:
Company: Z		Accreditations Required (See note):		Job #:
Address: 2558 Hamburg Turnpike	Due Date Requested: Standard			
City: Buffalo	TAT Requested (days):			
State, Zip: NY 14218				
Phone: 716 713-3937	PO #: T0395-021-001			
Email: BMayback@BM-Tk.com	WO #:			
Project Name: Legacy Grand Island	Project #:			
Site:	SSOW#:			

Analysis Requested

480-181693 Chain of Custody

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate (Acid), U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PAH's	RCRA metals	Total Number	Special Instructions/Note:
			Preservation Code:							
TP-9 0.5-1.5 Ft.	3/4/21	9:00	6	S			X	X	2	
TP-10 0-2 Ft.		10:00	6	S			X	X		
TP-11 0-2 Ft.		11:00	6	S						on hold
TP-12 0-1 Ft.		12:00	6	S			X	X		
TP-13 0.5-2 Ft.		12:30	6	S						on hold
TP-14 3in-3 Ft.		13:00	6	S			X	X		
TP-15 2-3 Ft.		13:30	6	S			X	X		
TP-16 0-2 Ft.		14:00	6	S			X	X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/4/21 15:45	BMTK		3/4/21 15:45	STA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2 #1 ICE

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-181693-1

Login Number: 181693
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

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