Bee Branch Railroad Crossing Stockpile Sampling Report
Dubuque Tech Park
Digital Drive
Dubuque County Assessor Parcel Number 1512376007
Dubuque, Iowa

Prepared for:
City of Dubuque
50 West 13th Street
Dubuque, Iowa 52001-4805

Prepared by:
Blackstone Environmental
1465 41st Street, Suite 13
Moline, Illinois 61265
309-798-3487
Project Number: 1934.16

BLACKSTONE ENVIRONMENTAL

May 27, 2022

Bee Branch Railroad Crossing Stockpile Sampling Report
Dubuque Tech Park
Digital Drive
Dubuque County Assessor Parcel Number 1512376007
Dubuque, Iowa
Blackstone Project Number 1934.16

Prepared for:
Mr. Steve Sampson Brown
City of Dubuque
50 West 13th Street
Dubuque, Iowa 52001-4805

Prepared by:

Jack Murphy
Environmental Scientist

Reviewed by:

Krista Broderson
Senior Project Manager

May 27, 2022

BLACKSTONE ENVIRONMENTAL

Table of Contents

Section **Page**

1 EXECUTIVE SUMMARY 1

2 SITE HISTORY AND BACKGROUND 1

3 SCOPE OF WORK 2

3.1 Field Sampling Procedures 2

3.1.1. Soil Sampling ..... **Error! Bookmark not defined.**

4 SOIL ANALYTICAL RESULTS ..... ERROR! BOOKMARK NOT DEFINED.

5 CONCLUSIONS AND RECOMMENDATIONS 3

6 LIMITATIONS AND EXCEPTIONS 3

FIGURES

1 Topographic Map

2 Sampling Location Map

3 Lead Concentrations

TABLE

Table 1 – Soil Analytical Results

APPENDICES

A Laboratory Analytical Reports

1 EXECUTIVE SUMMARY

Blackstone Environmental, Inc. (Blackstone) has completed stockpile sampling at the Dubuque Technology Park, located south of Digital Drive in Dubuque, Dubuque County, Iowa (Site). The Site location is illustrated on Figure 1. The sampling was conducted in general accordance with the Upper Bee Branch Creek Restoration Project Stockpile Sampling Plan, dated August 26, 2020.

Sampling activities were conducted on May 4, 2022 by Blackstone personnel and consisted of collecting a total of 20 soil samples. The stockpile was sampled in 20 sections of approximately equal volume. One grab sample was collected from each section or at a frequency of one sample per every approximate 300 cubic feet. Samples were advanced to depths of up to approximately one foot below ground surface (bgs). The samples collected were submitted for the analysis of polycyclic aromatic hydrocarbons (PAHs) and lead. Additionally, samples that exhibited lead concentrations above the Iowa Statewide Standards (SWS[1]) were further analyzed for lead by the Toxicity Characteristic Leaching Procedure (TCLP).

Based on the analytical results, PAHs concentrations were not detected above laboratory detection limits in the soil samples. Lead concentrations were detected above the SWS in seven of the 20 samples collected from the stockpile. The seven samples were also analyzed for lead by TCLP. The soil samples analyzed by TCLP indicated lead concentrations below laboratory detection limits.

Due to the presence of lead in soil above the SWS, Blackstone recommends segregating portions of the stockpile for removal. If disposal is approved as a non-hazardous soil, the soil will be disposed of at the Dubuque Metropolitan Solid Waste Landfill. Prior to soil disposal, it is recommended that the Iowa Department of Natural Resources (IDNR) be provided a copy of this report for review.

2 SITE HISTORY AND BACKGROUND

The Site consists of one parcel of land that is located at the Dubuque Tech Park in Dubuque, Scott County, Iowa. As part of the Upper Bee Branch Creek Restoration Project, approximately 925 cubic yards of soil was excavated from Area 2 (A1 Crane) by Tschiggfrie Excavating in 2019. The excavated soil was transported from Area 2 and stockpiled on the Site.

The stockpile was sampled by Strand Associates on October 10, 2019. The stockpiled soil was separated into three sections (West Composite, Central Composite, and East Composite) and ten grab samples were collected from each section. The ten samples from each section were composited into one sample from each section for a total of three samples. The samples were

[1] *Iowa Administrative Code (IAC) 567 Chapter 137 Iowa Land Recycling Program and Response Action Standards*

submitted for laboratory analysis of volatile organic compounds (VOCs), waste oil, PAHs, and metals. The laboratory report indicated that VOC concentrations were not detected above the laboratory detection limits in the soil samples. Concentrations of PAHs, waste oil, arsenic, barium, cadmium, chromium, and mercury were detected at concentrations below the SWS.

Lead was detected in the three samples at concentrations above the SWS. The samples were then analyzed for lead by TCLP. TCLP lead was not detected above the laboratory detection limit in the West Composite sample. The samples Central Composite and East Composite had lead concentrations of 0.478 milligrams per liter (mg/l) and 0.582 mg/l, respectively. These concentrations are below the United States Environmental Protection Agency Maximum Concentration of Contaminants for Toxicity Characteristic (MCCTC) for lead of 5.0 mg/l.

Based on the previous sampling results, Blackstone recommended the collection of additional grab samples from the stockpiles for analysis of lead and PAHs. The additional sampling was approved by the IDNR in an email dated September 3, 2020.

3 SCOPE OF WORK

Blackstone prepared a Stockpile Sampling Plan dated February 14, 2020 and an Updated Stockpile Sampling Plan dated August 26, 2020 and submitted the plans to IDNR for review. The IDNR approved the updated Stockpile Sampling Plan on September 3, 2020. The stockpile sampling activities were conducted in general accordance with the August 2020 Updated Stockpile Sampling Plan.

3.1 Field Sampling Procedures

Stockpile sampling activities were completed by Blackstone personnel on May 4, 2022. Upon arrival to the Site, the stockpile was observed to be approximately 100 feet long by 60 feet wide and one foot deep. The stockpile was segregated (via pin flag) into 20 separate sections of approximately 10 feet wide by 30 feet long, as shown in Figure 2. Soil sampling was accomplished by digging to a depth of approximately one foot, using a hand trowel and shovel. The sampling equipment was decontaminated with Alconox detergent and rinsed with clean water between each sample and new nitrile gloves were worn between each sample collection to prevent potential cross contamination of samples.

One discrete soil sample was collected from each section, identified as samples SP1 through SP20. The soil samples selected for laboratory analysis were collected and placed into laboratory-supplied containers, labeled, and placed under proper chain-of-custody and on ice in a cooler pending transfer to Eurofins Scientific (Eurofins), in Cedar Falls, Iowa. The soil samples were submitted for laboratory analysis of PAHs by EPA Method 8270E SIM and lead by EPA Method 6010.

Small quantities of soil and water were generated during the investigation from sampling and decontamination of personnel and equipment. Excess soil was replaced in the original location. Water generated from the cleaning of personnel equipment was discharged to the ground surface.

3.1 Soil Analytical Results

Soil analytical results were compared to the Iowa SWS (Iowa Administrative Code 567 Chapter 137 *Iowa Land Recycling Program and Response Action Standards)* for soil.

Concentrations of PAHs were not detected above laboratory detection limits in the soil samples collected.

Lead was detected in each of the soil samples collected from the Site. Concentrations of lead were detected above the SWS of 400 mg/kg and ranged from 408 mg/kg to 476 mg/kg in seven of the 20 soil samples (SP2, SP5, SP6, SP8, SP14, SP17, and SP19). Because lead was detected above the SWS, these samples were further analyzed for TCLP lead. TCLP lead concentrations were not detected above laboratory limits in the soil samples. The TCLP lead concentrations and sample locations are illustrated on Figure 3. A summary of the analytical results is provided on Table 1. The laboratory analytical report is included in Appendix A.

4 CONCLUSIONS AND RECOMMENDATIONS

Blackstone completed stockpile soil sampling activities at the Site on May 4, 2022. Twenty soil samples were collected from the stockpiles during the sampling activities. Concentrations of PAHs were not detected above laboratory detection limits in the soil samples collected from the stockpile. Lead was detected in the soil samples, with concentrations exceeding the SWS in seven of the 20 soil samples (SP2, SP5, SP6, SP8, SP14, SP17, and SP19). The seven soil samples were further analyzed for TCLP and TCLP lead concentrations were not detected above laboratory detection limits.

Due to the presence of lead in soil above the SWS, Blackstone recommends that the stockpiles be segregated for removal and disposal. If disposal is approved as a non-hazardous soil, the soil will be disposed of at the Dubuque Metropolitan Solid Waste Landfill. Prior to soil disposal, it is recommended that the IDNR be provided a copy of this report for review.

5 LIMITATIONS AND EXCEPTIONS

Blackstone has conducted this investigation in general accordance with the Updated Stockpile Sampling Plan dated August 26, 2020. It should be noted that variations of subsurface stratigraphy or contaminant levels may occur between sampling locations.

The work described herein was performed in accordance with the scope of work requested and approved by our Client. Environmental issues not specifically addressed in this report were

beyond the scope of our services and not included in our evaluation. The findings and recommendations in this report are made based upon the analytical results, field observations, and our professional judgment. It is possible that unforeseen events or conditions could occur that may limit the effectiveness of the assessment. Although risk can never be completely eliminated, more detailed and extensive investigations yield more information, which may help the Client understand and better manage risks. Since such detailed services involve greater expense, we ask our clients to participate in identifying the level of service, which will provide them with an acceptable level of risk. Please contact the signatories of this report if you would like to discuss this issue of risk further.

This report may be used only by the Client. Land or facility use, on- and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time, or any material change in circumstances. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered reliable as of the date of the site visit but may be limited by material changes in site circumstances.

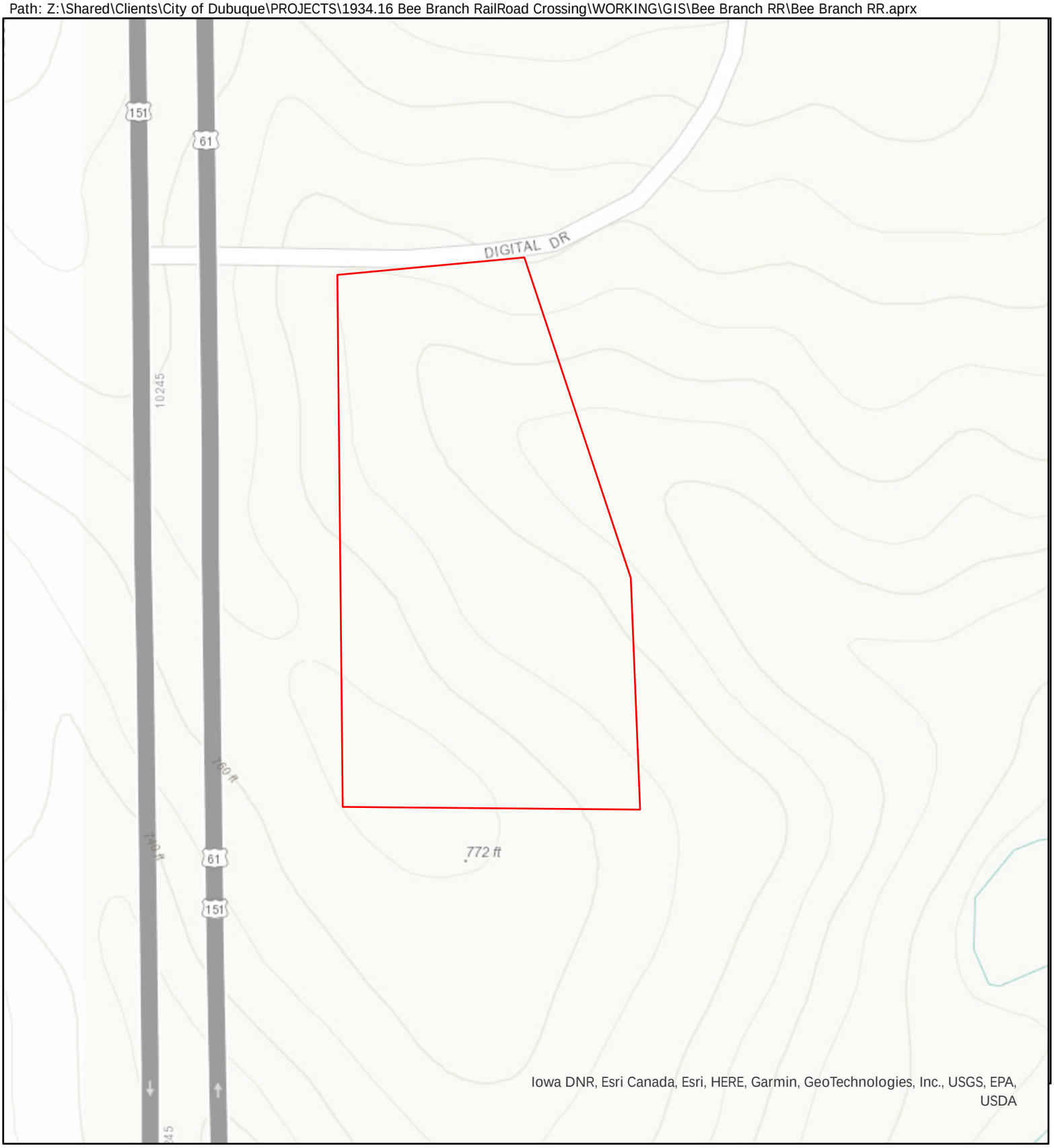
Blackstone has performed the services in a manner consistent with that level of care and skill ordinarily exercised by other members of our profession currently practicing in the same locality and under similar conditions. We have endeavored to meet this standard of care but may have been limited by conditions encountered during performance, or inability to review information not received by the report date. When appropriate, such limitations are discussed in the report relative to their significance with respect to our findings. No warranties, express or implied, are intended or made.

Limitations identified herein must be considered when the user of this report formulates opinions regarding risks associated with the Site. Additional research and assessment may be performed to further evaluate risks, if requested by the Client. We will, upon request, advise the Client of additional research or assessment options that may be available.

BLACKSTONE ENVIRONMENTAL

FIGURES

Path: Z:\Shared\Clients\City of Dubuque\PROJECTS\1934.16 Bee Branch RailRoad Crossing\WORKING\GIS\Bee Branch RR\Bee Branch RR.aprx



Site

N

0 0.01 0.03 0.05 0.08 0.1 Miles

FIGURE 1	Project Mgr. KB	Date: May 2022	BLACKSTONE ENVIRONMENTAL	CLIENT NAME: City of Dubuque
	Designed By: JM	Rev.:		SHEET NAME: Topographic Map
	Drawn By: JM	Rev.:		PROJECT NAME: Bee Branch Stockpile Sampling
	Checked by: KB	Rev.:		
	Job No.: 1934.28	Rev.:		

Path: Z:\Shared\Clients\City of Dubuque\PROJECTS\1934.16 Bee Branch RailRoad Crossing\WORKING\GIS\Bee Branch RR\Bee Branch RR.aprx

Site

Soil Sample

N

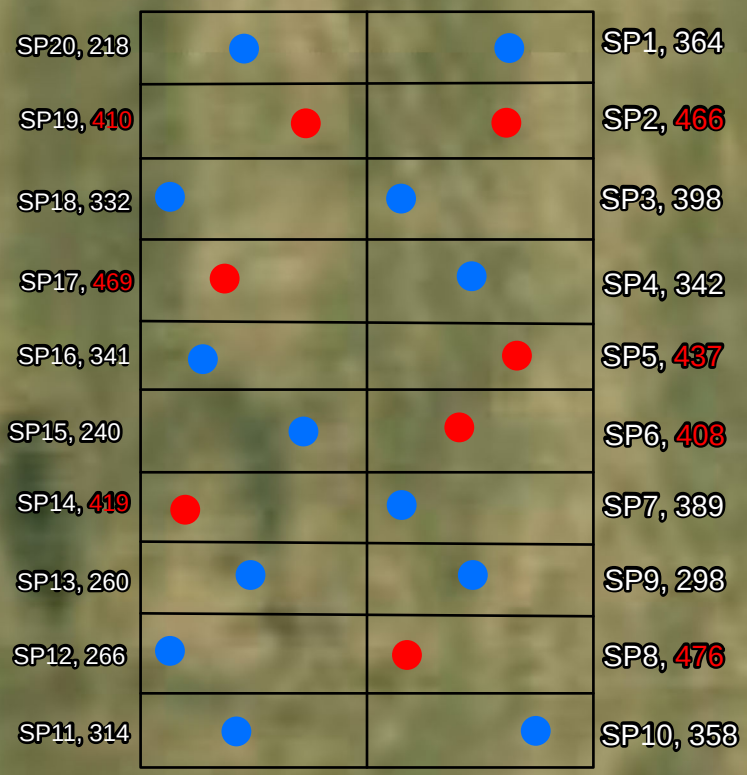
0 0 0.01 0.02 0.03 0.04 Miles

FIGURE 2	Project Mgr. KB	Date: May 2022	BLACKSTONE ENVIRONMENTAL	CLIENT NAME: City of Dubuque
	Designed By: JM	Rev.:		SHEET NAME: Sample Location Map
	Drawn By: JM	Rev.:		PROJECT NAME: Bee Branch Stockpile Sampling
	Checked by: KB	Rev.:		
	Job No.: 1934.16	Rev.:		

Path: Z:\Shared\Clients\City of Dubuque\PROJECTS\1934.16 Bee Branch RailRoad Crossing\WORKING\GIS\Bee Branch RR\Bee Branch RR.aprx

Sample	Concentration	Units	SWS
SP1	364	mg/kg	400
SP2	466	mg/kg	400
SP3	398	mg/kg	400
SP4	342	mg/kg	400
SP5	437	mg/kg	400
SP6	408	mg/kg	400
SP7	389	mg/kg	400
SP8	476	mg/kg	400
SP9	298	mg/kg	400
SP10	358	mg/kg	400
SP11	314	mg/kg	400
SP12	266	mg/kg	400
SP13	260	mg/kg	400
SP14	419	mg/kg	400
SP15	240	mg/kg	400
SP16	341	mg/kg	400
SP17	469	mg/kg	400
SP18	332	mg/kg	400
SP19	410	mg/kg	400
SP20	218	mg/kg	400

Red indicates above SWS.



Site

Approximate Sample Location

Sample Location Above SWS

N

0 0 0 0.01 0.01 0.02 Miles

FIGURE 3

Project Mgr. KB	Date: May 2022
Designed By: JM	Rev.:
Drawn By: JM	Rev.:
Checked by: KB	Rev.:
Job No.: 1934.16	Rev.:

BLACKSTONE ENVIRONMENTAL

CLIENT NAME: City of Dubuque

SHEET NAME: Lead Concentrations

PROJECT NAME: Bee Branch Stockpile

BLACKSTONE ENVIRONMENTAL

TABLE

TABLE 1 - Soil Analytical Results

Parameter	Units	Statewide Standards For Soil	MCCTC	SP1 4/20/2022	SP2 4/20/2022
PAHs by EPA Method 8270E SIM					
Acenaphthene	mg/kg	3400	--	<0.0612	0.223
Acenaphthylene	mg/kg	1700	--	0.0894	0.113
Anthracene	mg/kg	17000	--	0.183	0.564
Benzo(a)anthracene	mg/kg	3.1	--	0.61	1.43
Benzo(a)pyrene	mg/kg	2.3	--	0.632	1.38
Benzo(b)fluoranthene	mg/kg	3.1	--	0.79	1.71
Benzo(g,h,i)perylene	mg/kg	170	--	0.625	1.17
Benzo(k)fluoranthene	mg/kg	31	--	0.265	0.553
Chrysene	mg/kg	310	--	0.857	1.73
Dibenz(a,h)anthracene	mg/kg	0.31	--	0.155	0.247
Fluoranthene	mg/kg	2300	--	0.977	2.72
Fluorene	mg/kg	2300	--	<0.0612	0.254
Indeno(1,2,3-cd)pyrene	mg/kg	3.1	--	0.402	0.798
2-Methylnaphthalene	mg/kg	230	--	0.446	0.633
Naphthalene	mg/kg	1100	--	0.289	0.514
Phenanthrene	mg/kg	1700	--	1.05	2.86
Pyrene	mg/kg	1700	--	0.992	2.49
Lead by EPA Method 6010C					
Lead	mg/kg	400	--	364	**466**
TCLP Lead by EPA Method 6010C/1311					
TCLP Lead	mg/l	--	5	--	ND

Notes:
PAHs = polycyclic aromatic hydrocarbons
EPA = Environmental Protection Agency
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
Statewide standards for Soil = Iowa Administrative Code (IAC) Chapter 567-137.5 (455H)
MCCTC = EPA Maximum Concentration of Contaminants for Toxicity Characteristic
TCLP = Toxicity Characteristic Leaching Procedure
ND = Not detected

TABLE 1 - Soil Analytical Results

Parameter	Units	SP3 4/20/2022	SP4 4/20/2022	SP5 4/20/2022	SP6 4/20/2022
PAHs by EPA Method 8270E SIM					
Acenaphthene	mg/kg	0.0717	0.173	<0.0604	0.0847
Acenaphthylene	mg/kg	0.131	0.116	0.0813	0.114
Anthracene	mg/kg	0.311	0.696	0.177	0.322
Benzo(a)anthracene	mg/kg	0.831	1.87	0.638	0.996
Benzo(a)pyrene	mg/kg	0.762	1.65	0.608	0.978
Benzo(b)fluoranthene	mg/kg	0.948	1.82	0.74	1.17
Benzo(g,h,i)perylene	mg/kg	0.644	1.02	0.556	0.794
Benzo(k)fluoranthene	mg/kg	0.311	0.635	0.226	0.4
Chrysene	mg/kg	1.09	2.08	0.924	1.41
Dibenz(a,h)anthracene	mg/kg	0.154	0.304	0.152	0.225
Fluoranthene	mg/kg	1.39	3.34	0.922	1.58
Fluorene	mg/kg	0.0819	0.176	0.0604	0.0847
Indeno(1,2,3-cd)pyrene	mg/kg	0.426	0.786	0.339	0.527
2-Methylnaphthalene	mg/kg	1.03	1.4	0.447	0.685
Naphthalene	mg/kg	0.58	0.522	0.269	0.416
Phenanthrene	mg/kg	1.76	2.83	1.13	1.99
Pyrene	mg/kg	1.48	3.75	1.04	1.76
Lead by EPA Method 6010C					
Lead	mg/kg	398	342	**437**	**408**
TCLP Lead by EPA Method 6010C/1311					
TCLP Lead	mg/l	--	--	ND	ND

Notes:
PAHs = polycyclic aromatic hydrocarbons
EPA = Environmental Protection Agency
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
Statewide standards for Soil = Iowa Administrative Code
MCCTC = EPA Maximum Concentration of Contaminant
TCLP = Toxicity Characteristic Leaching Procedure
ND = Not detected

TABLE 1 - Soil Analytical Results

Parameter	Units	SP7 4/20/2022	SP8 4/20/2022	SP9 4/20/2022	SP10 4/20/2022
PAHs by EPA Method 8270E SIM					
Acenaphthene	mg/kg	0.115	<0.0669	<0.0596	0.0707
Acenaphthylene	mg/kg	0.211	0.0754	0.159	0.0907
Anthracene	mg/kg	0.357	0.172	0.217	0.241
Benzo(a)anthracene	mg/kg	1.01	0.409	0.776	0.726
Benzo(a)pyrene	mg/kg	0.929	0.408	0.815	0.659
Benzo(b)fluoranthene	mg/kg	1.49	0.577	1.12	0.817
Benzo(g,h,i)perylene	mg/kg	0.586	0.319	0.665	0.467
Benzo(k)fluoranthene	mg/kg	<0.0599	0.182	0.405	0.267
Chrysene	mg/kg	1.28	0.596	1.11	0.947
Dibenz(a,h)anthracene	mg/kg	0.173	0.0914	0.162	0.131
Fluoranthene	mg/kg	1.94	0.961	1.41	1.32
Fluorene	mg/kg	0.149	0.072	0.0697	0.0939
Indeno(1,2,3-cd)pyrene	mg/kg	0.456	0.238	0.475	0.313
2-Methylnaphthalene	mg/kg	2.7	0.572	0.361	0.465
Naphthalene	mg/kg	1.13	0.301	0.247	0.319
Phenanthrene	mg/kg	2.83	1.22	1.35	1.49
Pyrene	mg/kg	1.98	0.906	1.51	1.38
Lead by EPA Method 6010C					
Lead	mg/kg	389	**476**	298	358
TCLP Lead by EPA Method 6010C/1311					
TCLP Lead	mg/l	--	ND	--	--

Notes:
PAHs = polycyclic aromatic hydrocarbons
EPA = Environmental Protection Agency
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
Statewide standards for Soil = Iowa Administrative Code
MCCTC = EPA Maximum Concentration of Contaminant
TCLP = Toxicity Characteristic Leaching Procedure
ND = Not detected

TABLE 1 - Soil Analytical Results

Parameter	Units	SP11 4/20/2022	SP12 4/20/2022	SP13 4/20/2022	SP14 4/20/2022
PAHs by EPA Method 8270E SIM					
Acenaphthene	mg/kg	0.0864	0.0615	0.0637	<0.0616
Acenaphthylene	mg/kg	0.378	0.178	0.152	0.135
Anthracene	mg/kg	0.497	0.258	0.259	0.212
Benzo(a)anthracene	mg/kg	1.67	0.881	0.748	0.764
Benzo(a)pyrene	mg/kg	1.63	0.837	0.668	0.762
Benzo(b)fluoranthene	mg/kg	2.78	1.13	1.14	0.968
Benzo(g,h,i)perylene	mg/kg	0.911	0.53	0.375	0.473
Benzo(k)fluoranthene	mg/kg	<0.0560	0.317	<0.0598	0.318
Chrysene	mg/kg	2.17	1.11	0.918	1.05
Dibenz(a,h)anthracene	mg/kg	0.238	0.143	0.101	0.142
Fluoranthene	mg/kg	3.45	1.53	1.42	1.39
Fluorene	mg/kg	0.238	0.0824	0.0621	0.0667
Indeno(1,2,3-cd)pyrene	mg/kg	0.755	0.396	0.294	0.332
2-Methylnaphthalene	mg/kg	0.521	0.89	1.67	0.739
Naphthalene	mg/kg	0.384	0.516	0.975	0.44
Phenanthrene	mg/kg	4.04	1.62	1.6	1.47
Pyrene	mg/kg	3.02	1.56	1.5	1.5
Lead by EPA Method 6010C					
Lead	mg/kg	314	266	260	**419**
TCLP Lead by EPA Method 6010C/1311					
TCLP Lead	mg/l	--	--	--	ND

Notes:
PAHs = polycyclic aromatic hydrocarbons
EPA = Environmental Protection Agency
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
Statewide standards for Soil = Iowa Administrative Code
MCCTC = EPA Maximum Concentration of Contaminant
TCLP = Toxicity Characteristic Leaching Procedure
ND = Not detected

TABLE 1 - Soil Analytical Results

Parameter	Units	SP15 4/20/2022	SP16 4/20/2022	SP17 4/20/2022	SP18 4/20/2022
PAHs by EPA Method 8270E SIM					
Acenaphthene	mg/kg	0.0887	0.0626	<0.0587	0.0671
Acenaphthylene	mg/kg	0.153	0.0861	0.076	0.0992
Anthracene	mg/kg	0.278	0.203	0.24	0.245
Benzo(a)anthracene	mg/kg	0.805	0.65	0.983	0.81
Benzo(a)pyrene	mg/kg	0.707	0.601	0.953	0.776
Benzo(b)fluoranthene	mg/kg	0.928	0.744	1.15	1.28
Benzo(g,h,i)perylene	mg/kg	0.371	0.581	0.834	0.538
Benzo(k)fluoranthene	mg/kg	0.287	0.255	0.338	<0.0568
Chrysene	mg/kg	1.03	0.902	1.39	0.985
Dibenz(a,h)anthracene	mg/kg	0.128	0.165	0.278	0.12
Fluoranthene	mg/kg	1.42	0.98	1.29	1.22
Fluorene	mg/kg	0.0752	0.0703	0.0729	0.0771
Indeno(1,2,3-cd)pyrene	mg/kg	0.287	0.378	0.546	0.413
2-Methylnaphthalene	mg/kg	0.908	0.678	0.687	0.582
Naphthalene	mg/kg	0.445	0.43	0.407	0.362
Phenanthrene	mg/kg	1.89	1.48	2.16	1.73
Pyrene	mg/kg	1.52	1.02	1.38	1.16
Lead by EPA Method 6010C					
Lead	mg/kg	240	341	**469**	332
TCLP Lead by EPA Method 6010C/1311					
TCLP Lead	mg/l	--	--	ND	--

Notes:
PAHs = polycyclic aromatic hydrocarbons
EPA = Environmental Protection Agency
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
Statewide standards for Soil = Iowa Administrative Code
MCCTC = EPA Maximum Concentration of Contaminant
TCLP = Toxicity Characteristic Leaching Procedure
ND = Not detected

TABLE 1 - Soil Analytical Results

Parameter	Units	SP19 4/20/2022	SP20 4/20/2022
PAHs by EPA Method 8270E SIM			
Acenaphthene	mg/kg	0.0843	<0.0641
Acenaphthylene	mg/kg	0.0975	<0.0641
Anthracene	mg/kg	0.272	0.121
Benzo(a)anthracene	mg/kg	0.796	0.32
Benzo(a)pyrene	mg/kg	0.743	0.298
Benzo(b)fluoranthene	mg/kg	1.25	0.389
Benzo(g,h,i)perylene	mg/kg	0.509	0.281
Benzo(k)fluoranthene	mg/kg	<0.0590	0.12
Chrysene	mg/kg	1.06	0.498
Dibenz(a,h)anthracene	mg/kg	0.131	0.0763
Fluoranthene	mg/kg	1.31	0.523
Fluorene	mg/kg	0.11	<0.0641
Indeno(1,2,3-cd)pyrene	mg/kg	0.391	0.178
2-Methylnaphthalene	mg/kg	0.571	0.399
Naphthalene	mg/kg	0.292	0.256
Phenanthrene	mg/kg	1.75	0.862
Pyrene	mg/kg	1.3	0.517
Lead by EPA Method 6010C			
Lead	mg/kg	**410**	218
TCLP Lead by EPA Method 6010C/1311			
TCLP Lead	mg/l	ND	--

Notes:
PAHs = polycyclic aromatic hydrocarbons
EPA = Environmental Protection Agency
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
Statewide standards for Soil = Iowa Administrative Code
MCCTC = EPA Maximum Concentration of Contaminant
TCLP = Toxicity Characteristic Leaching Procedure
ND = Not detected

BLACKSTONE ENVIRONMENTAL

APPENDIX A – Laboratory Analytical Results

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-229794-1
Laboratory Sample Delivery Group: 1934.16
Client Project/Site: Tech Park

For:
Blackstone Environmental, Inc
1465 41st Street
Suite 13
Moline, Illinois 61265

Attn: Krista Broderson

Authorized for release by:
5/6/2022 4:08:53 PM

Shawn Hayes, Senior Project Manager
(319)229-8211
Shawn.Hayes@et.eurofinsus.com

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Detection Summary 5
Client Sample Results 13
Definitions 33
Surrogate Summary 34
QC Sample Results 35
QC Association 38
Chronicle 41
Certification Summary 46
Method Summary 47
Chain of Custody 48
Receipt Checklists 52

Case Narrative

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Job ID: 310-229794-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-229794-1

Comments
No additional comments.

Receipt
The samples were received on 4/22/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 5.1º C.

GC/MS Semi VOA
Method 8270E SIM: The following samples were diluted due to the nature of the sample matrix: SP1 (310-229794-1), SP2 (310-229794-2), SP3 (310-229794-3), SP4 (310-229794-4), SP5 (310-229794-5), SP6 (310-229794-6), SP7 (310-229794-7), SP8 (310-229794-8), SP9 (310-229794-9), SP10 (310-229794-10), SP11 (310-229794-11), SP12 (310-229794-12), SP13 (310-229794-13), SP14 (310-229794-14), SP15 (310-229794-15), SP16 (310-229794-16), SP17 (310-229794-17), SP18 (310-229794-18), SP19 (310-229794-19) and SP20 (310-229794-20). 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
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Sample Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-229794-1	SP1	Soil	04/20/22 10:20	04/22/22 09:00
310-229794-2	SP2	Soil	04/20/22 10:35	04/22/22 09:00
310-229794-3	SP3	Soil	04/20/22 10:45	04/22/22 09:00
310-229794-4	SP4	Soil	04/20/22 10:52	04/22/22 09:00
310-229794-5	SP5	Soil	04/20/22 11:56	04/22/22 09:00
310-229794-6	SP6	Soil	04/20/22 11:04	04/22/22 09:00
310-229794-7	SP7	Soil	04/20/22 11:10	04/22/22 09:00
310-229794-8	SP8	Soil	04/20/22 11:17	04/22/22 09:00
310-229794-9	SP9	Soil	04/20/22 11:30	04/22/22 09:00
310-229794-10	SP10	Soil	04/20/22 11:37	04/22/22 09:00
310-229794-11	SP11	Soil	04/20/22 11:55	04/22/22 09:00
310-229794-12	SP12	Soil	04/20/22 12:02	04/22/22 09:00
310-229794-13	SP13	Soil	04/20/22 12:10	04/22/22 09:00
310-229794-14	SP14	Soil	04/20/22 12:15	04/22/22 09:00
310-229794-15	SP15	Soil	04/20/22 12:21	04/22/22 09:00
310-229794-16	SP16	Soil	04/20/22 12:28	04/22/22 09:00
310-229794-17	SP17	Soil	04/20/22 12:32	04/22/22 09:00
310-229794-18	SP18	Soil	04/20/22 12:38	04/22/22 09:00
310-229794-19	SP19	Soil	04/20/22 12:43	04/22/22 09:00
310-229794-20	SP20	Soil	04/20/22 12:50	04/22/22 09:00

Detection Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP1 — Lab Sample ID: 310-229794-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0894	F1 F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.183	F1 F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.610	F1 F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.632	F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.790	F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.625	F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.265	F1 F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	0.857	F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.155	F1	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	0.977	F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.402	F1 F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.446	F1 F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.289	F1 F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.05	F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	0.992	F2	0.0612		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	364	F1	14.9		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: SP2 — Lab Sample ID: 310-229794-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.223		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.113		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.564		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	1.43		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	1.38		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.71		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	1.17		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.553		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.73		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.247		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	2.72		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.254		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.798		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.633		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.514		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	2.86		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	2.49		0.0607		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	466		14.7		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: SP3 — Lab Sample ID: 310-229794-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0717		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.131		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.311		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.831		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.762		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.948		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.644		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.311		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.09		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.154		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample ID: SP3 (Continued) — Lab Sample ID: 310-229794-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1.39		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0819		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.426		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	1.03		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.580		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.76		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.48		0.0586		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	398		8.73		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP4 — Lab Sample ID: 310-229794-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.173		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.116		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.696		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	1.87		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	1.65		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.82		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	1.02		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.635		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	2.08		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.304		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	3.34		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.176		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.786		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	1.40		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.522		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	2.83		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	3.75		0.0611		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	342		9.55		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP5 — Lab Sample ID: 310-229794-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0813		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.177		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.638		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.608		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.740		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.556		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.226		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	0.924		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.152		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	0.922		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0604		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.339		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.447		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.269		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.13		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.04		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	437		9.37		mg/Kg	2	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP6 — Lab Sample ID: 310-229794-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0847		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.114		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.322		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.996		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.978		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.17		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.794		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.400		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.41		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.225		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	1.58		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0847		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.527		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.685		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.416		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.99		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.76		0.0604		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	408		14.7		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: SP7 — Lab Sample ID: 310-229794-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.115		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.211		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.357		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	1.01		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.929		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.49		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.586		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.28		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.173		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	1.94		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.149		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.456		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	2.70		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	1.13		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	2.83		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.98		0.0599		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	389		9.99		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP8 — Lab Sample ID: 310-229794-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0754		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.172		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.409		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.408		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.577		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.319		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.182		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	0.596		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.0914		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP8 (Continued) — Lab Sample ID: 310-229794-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.961		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0720		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.238		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.572		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.301		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.22		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	0.906		0.0669		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	476		14.7		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: SP9 — Lab Sample ID: 310-229794-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.159		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.217		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.776		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.815		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.12		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.665		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.405		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.11		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.162		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	1.41		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0697		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.475		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.361		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.247		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.35		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.51		0.0596		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	298		8.99		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP10 — Lab Sample ID: 310-229794-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0707		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.0907		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.241		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.726		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.659		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.817		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.467		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.267		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	0.947		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.131		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	1.32		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0939		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.313		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.465		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.319		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.49		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.38		0.0556		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	358		13.1		mg/Kg	3	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP11 — Lab Sample ID: 310-229794-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0864		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.378		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.497		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	1.67		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	1.63		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	2.78		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.911		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	2.17		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.238		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	3.45		0.560		mg/Kg	50	☼	8270E SIM	Total/NA
Fluorene	0.238		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.755		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.521		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.384		0.0560		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	4.04		0.560		mg/Kg	50	☼	8270E SIM	Total/NA
Pyrene	3.02		0.560		mg/Kg	50	☼	8270E SIM	Total/NA
Lead	314		13.5		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: SP12 — Lab Sample ID: 310-229794-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0615		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.178		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.258		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.881		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.837		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.13		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.530		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.317		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.11		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.143		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	1.53		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0824		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.396		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.890		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.516		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.62		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.56		0.0608		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	266		9.12		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP13 — Lab Sample ID: 310-229794-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0637		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.152		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.259		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.748		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.668		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.14		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.375		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	0.918		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.101		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP13 (Continued) — Lab Sample ID: 310-229794-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1.42		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0621		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.294		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	1.67		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.975		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.60		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.50		0.0598		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	260		9.12		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP14 — Lab Sample ID: 310-229794-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.135		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.212		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.764		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.762		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.968		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.473		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.318		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.05		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.142		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	1.39		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0667		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.332		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.739		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.440		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.47		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.50		0.0616		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	419		9.10		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP15 — Lab Sample ID: 310-229794-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0887		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.153		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.278		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.805		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.707		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.928		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.371		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.287		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.03		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.128		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	1.42		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0752		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.287		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.908		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.445		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.89		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.52		0.0588		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	240		8.97		mg/Kg	2	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP16 — Lab Sample ID: 310-229794-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0626		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.0861		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.203		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.650		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.601		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.744		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.581		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.255		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	0.902		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.165		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	0.980		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0703		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.378		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.678		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.430		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.48		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.02		0.0579		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	341		9.32		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP17 — Lab Sample ID: 310-229794-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0760		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.240		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.983		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.953		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.15		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.834		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.338		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.39		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.278		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	1.29		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0729		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.546		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.687		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.407		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	2.16		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.38		0.0587		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	469		8.80		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP18 — Lab Sample ID: 310-229794-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0671		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.0992		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.245		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.810		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.776		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.28		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.538		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	0.985		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.120		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP18 (Continued) — Lab Sample ID: 310-229794-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1.22		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.0771		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.413		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.582		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.362		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.73		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.16		0.0568		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	332		8.92		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP19 — Lab Sample ID: 310-229794-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0843		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Acenaphthylene	0.0975		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Anthracene	0.272		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.796		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.743		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	1.25		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.509		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	1.06		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.131		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	1.31		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Fluorene	0.110		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.391		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.571		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.292		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	1.75		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	1.30		0.0590		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	410		8.86		mg/Kg	2	☼	6010C	Total/NA

Client Sample ID: SP20 — Lab Sample ID: 310-229794-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.121		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)anthracene	0.320		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(a)pyrene	0.298		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.389		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.281		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.120		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Chrysene	0.498		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.0763		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Fluoranthene	0.523		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.178		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
2-Methylnaphthalene	0.399		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Naphthalene	0.256		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Phenanthrene	0.862		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Pyrene	0.517		0.0641		mg/Kg	5	☼	8270E SIM	Total/NA
Lead	218		9.36		mg/Kg	2	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP1

Date Collected: 04/20/22 10:20
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-1

Matrix: Soil
Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0612	F1 F2	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Acenaphthylene	**0.0894**	**F1 F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Anthracene	**0.183**	**F1 F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Benzo(a)anthracene	**0.610**	**F1 F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Benzo(a)pyrene	**0.632**	**F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Benzo(b)fluoranthene	**0.790**	**F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Benzo(g,h,i)perylene	**0.625**	**F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Benzo(k)fluoranthene	**0.265**	**F1 F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Chrysene	**0.857**	**F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Dibenz(a,h)anthracene	**0.155**	**F1**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Fluoranthene	**0.977**	**F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Fluorene	<0.0612	F1 F2	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Indeno(1,2,3-cd)pyrene	**0.402**	**F1 F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
2-Methylnaphthalene	**0.446**	**F1 F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Naphthalene	**0.289**	**F1 F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Phenanthrene	**1.05**	**F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5
Pyrene	**0.992**	**F2**	0.0612		mg/Kg	☼	04/25/22 07:20	04/28/22 17:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*20 - 110*	*04/25/22 07:20*	*04/28/22 17:38*	*5*
Nitrobenzene-d5 (Surr)	*88*		*11 - 116*	*04/25/22 07:20*	*04/28/22 17:38*	*5*
Terphenyl-d14 (Surr)	*99*		*18 - 110*	*04/25/22 07:20*	*04/28/22 17:38*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**364**	**F1**	14.9		mg/Kg	☼	05/04/22 10:30	05/06/22 12:58	3

Client Sample ID: SP2

Date Collected: 04/20/22 10:35
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-2

Matrix: Soil
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.223		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Acenaphthylene	0.113		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Anthracene	0.564		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Benzo(a)anthracene	1.43		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Benzo(a)pyrene	1.38		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Benzo(b)fluoranthene	1.71		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Benzo(g,h,i)perylene	1.17		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Benzo(k)fluoranthene	0.553		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Chrysene	1.73		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Dibenz(a,h)anthracene	0.247		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Fluoranthene	2.72		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Fluorene	0.254		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Indeno(1,2,3-cd)pyrene	0.798		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
2-Methylnaphthalene	0.633		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Naphthalene	0.514		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Phenanthrene	2.86		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5
Pyrene	2.49		0.0607		mg/Kg	☼	04/25/22 07:20	04/28/22 17:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*20 - 110*	*04/25/22 07:20*	*04/28/22 17:58*	*5*
Nitrobenzene-d5 (Surr)	*76*		*11 - 116*	*04/25/22 07:20*	*04/28/22 17:58*	*5*
Terphenyl-d14 (Surr)	*83*		*18 - 110*	*04/25/22 07:20*	*04/28/22 17:58*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	466		14.7		mg/Kg	☼	05/04/22 10:30	05/06/22 13:08	3

Client Sample ID: SP3

Date Collected: 04/20/22 10:45
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-3

Matrix: Soil
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0717		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Acenaphthylene	0.131		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Anthracene	0.311		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Benzo(a)anthracene	0.831		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Benzo(a)pyrene	0.762		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Benzo(b)fluoranthene	0.948		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Benzo(g,h,i)perylene	0.644		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Benzo(k)fluoranthene	0.311		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Chrysene	1.09		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Dibenz(a,h)anthracene	0.154		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Fluoranthene	1.39		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Fluorene	0.0819		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Indeno(1,2,3-cd)pyrene	0.426		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
2-Methylnaphthalene	1.03		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Naphthalene	0.580		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Phenanthrene	1.76		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5
Pyrene	1.48		0.0586		mg/Kg	☼	04/25/22 07:20	04/28/22 18:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*20 - 110*	*04/25/22 07:20*	*04/28/22 18:17*	*5*
Nitrobenzene-d5 (Surr)	*86*		*11 - 116*	*04/25/22 07:20*	*04/28/22 18:17*	*5*
Terphenyl-d14 (Surr)	*99*		*18 - 110*	*04/25/22 07:20*	*04/28/22 18:17*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	398		8.73		mg/Kg	☼	05/04/22 10:30	05/06/22 13:10	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP4

Date Collected: 04/20/22 10:52
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-4

Matrix: Soil
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.173		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Acenaphthylene	0.116		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Anthracene	0.696		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Benzo(a)anthracene	1.87		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Benzo(a)pyrene	1.65		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Benzo(b)fluoranthene	1.82		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Benzo(g,h,i)perylene	1.02		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Benzo(k)fluoranthene	0.635		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Chrysene	2.08		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Dibenz(a,h)anthracene	0.304		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Fluoranthene	3.34		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Fluorene	0.176		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Indeno(1,2,3-cd)pyrene	0.786		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
2-Methylnaphthalene	1.40		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Naphthalene	0.522		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Phenanthrene	2.83		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5
Pyrene	3.75		0.0611		mg/Kg	☼	04/25/22 07:20	04/28/22 18:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*20 - 110*	*04/25/22 07:20*	*04/28/22 18:37*	*5*
Nitrobenzene-d5 (Surr)	*82*		*11 - 116*	*04/25/22 07:20*	*04/28/22 18:37*	*5*
Terphenyl-d14 (Surr)	*91*		*18 - 110*	*04/25/22 07:20*	*04/28/22 18:37*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	342		9.55		mg/Kg	☼	05/04/22 10:30	05/06/22 13:12	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP5

Date Collected: 04/20/22 11:56
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-5

Matrix: Soil
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0604		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Acenaphthylene	**0.0813**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Anthracene	**0.177**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Benzo(a)anthracene	**0.638**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Benzo(a)pyrene	**0.608**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Benzo(b)fluoranthene	**0.740**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Benzo(g,h,i)perylene	**0.556**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Benzo(k)fluoranthene	**0.226**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Chrysene	**0.924**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Dibenz(a,h)anthracene	**0.152**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Fluoranthene	**0.922**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Fluorene	**0.0604**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Indeno(1,2,3-cd)pyrene	**0.339**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
2-Methylnaphthalene	**0.447**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Naphthalene	**0.269**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Phenanthrene	**1.13**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5
Pyrene	**1.04**		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 18:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*97*		*20 - 110*	*04/25/22 07:20*	*04/28/22 18:56*	*5*
Nitrobenzene-d5 (Surr)	*85*		*11 - 116*	*04/25/22 07:20*	*04/28/22 18:56*	*5*
Terphenyl-d14 (Surr)	*105*		*18 - 110*	*04/25/22 07:20*	*04/28/22 18:56*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**437**		9.37		mg/Kg	☼	05/04/22 10:30	05/06/22 13:14	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP6

Date Collected: 04/20/22 11:04
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-6

Matrix: Soil
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0847		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Acenaphthylene	0.114		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Anthracene	0.322		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Benzo(a)anthracene	0.996		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Benzo(a)pyrene	0.978		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Benzo(b)fluoranthene	1.17		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Benzo(g,h,i)perylene	0.794		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Benzo(k)fluoranthene	0.400		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Chrysene	1.41		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Dibenz(a,h)anthracene	0.225		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Fluoranthene	1.58		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Fluorene	0.0847		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Indeno(1,2,3-cd)pyrene	0.527		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
2-Methylnaphthalene	0.685		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Naphthalene	0.416		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Phenanthrene	1.99		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5
Pyrene	1.76		0.0604		mg/Kg	☼	04/25/22 07:20	04/28/22 19:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*100*		*20 - 110*	*04/25/22 07:20*	*04/28/22 19:16*	*5*
Nitrobenzene-d5 (Surr)	*83*		*11 - 116*	*04/25/22 07:20*	*04/28/22 19:16*	*5*
Terphenyl-d14 (Surr)	*100*		*18 - 110*	*04/25/22 07:20*	*04/28/22 19:16*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	408		14.7		mg/Kg	☼	05/04/22 10:30	05/06/22 13:16	3

Client Sample ID: SP7

Date Collected: 04/20/22 11:10
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-7

Matrix: Soil
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.115**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Acenaphthylene	**0.211**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Anthracene	**0.357**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Benzo(a)anthracene	**1.01**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Benzo(a)pyrene	**0.929**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Benzo(b)fluoranthene	**1.49**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Benzo(g,h,i)perylene	**0.586**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Benzo(k)fluoranthene	<0.0599		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Chrysene	**1.28**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Dibenz(a,h)anthracene	**0.173**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Fluoranthene	**1.94**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Fluorene	**0.149**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Indeno(1,2,3-cd)pyrene	**0.456**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
2-Methylnaphthalene	**2.70**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Naphthalene	**1.13**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Phenanthrene	**2.83**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5
Pyrene	**1.98**		0.0599		mg/Kg	☼	04/25/22 07:20	04/28/22 19:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*20 - 110*	*04/25/22 07:20*	*04/28/22 19:35*	*5*
Nitrobenzene-d5 (Surr)	*91*		*11 - 116*	*04/25/22 07:20*	*04/28/22 19:35*	*5*
Terphenyl-d14 (Surr)	*94*		*18 - 110*	*04/25/22 07:20*	*04/28/22 19:35*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**389**		9.99		mg/Kg	☼	05/04/22 10:30	05/06/22 13:19	2

Client Sample ID: SP8

Date Collected: 04/20/22 11:17
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-8

Matrix: Soil
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0669		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Acenaphthylene	**0.0754**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Anthracene	**0.172**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Benzo(a)anthracene	**0.409**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Benzo(a)pyrene	**0.408**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Benzo(b)fluoranthene	**0.577**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Benzo(g,h,i)perylene	**0.319**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Benzo(k)fluoranthene	**0.182**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Chrysene	**0.596**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Dibenz(a,h)anthracene	**0.0914**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Fluoranthene	**0.961**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Fluorene	**0.0720**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Indeno(1,2,3-cd)pyrene	**0.238**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
2-Methylnaphthalene	**0.572**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Naphthalene	**0.301**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Phenanthrene	**1.22**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5
Pyrene	**0.906**		0.0669		mg/Kg	☼	04/25/22 07:20	04/28/22 19:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*20 - 110*	*04/25/22 07:20*	*04/28/22 19:55*	*5*
Nitrobenzene-d5 (Surr)	*83*		*11 - 116*	*04/25/22 07:20*	*04/28/22 19:55*	*5*
Terphenyl-d14 (Surr)	*104*		*18 - 110*	*04/25/22 07:20*	*04/28/22 19:55*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**476**		14.7		mg/Kg	☼	05/04/22 10:30	05/06/22 13:21	3

Client Sample ID: SP9

Date Collected: 04/20/22 11:30
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-9

Matrix: Soil
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0596		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Acenaphthylene	**0.159**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Anthracene	**0.217**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Benzo(a)anthracene	**0.776**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Benzo(a)pyrene	**0.815**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Benzo(b)fluoranthene	**1.12**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Benzo(g,h,i)perylene	**0.665**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Benzo(k)fluoranthene	**0.405**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Chrysene	**1.11**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Dibenz(a,h)anthracene	**0.162**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Fluoranthene	**1.41**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Fluorene	**0.0697**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Indeno(1,2,3-cd)pyrene	**0.475**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
2-Methylnaphthalene	**0.361**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Naphthalene	**0.247**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Phenanthrene	**1.35**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5
Pyrene	**1.51**		0.0596		mg/Kg	☼	04/25/22 07:20	04/28/22 20:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*20 - 110*	*04/25/22 07:20*	*04/28/22 20:14*	*5*
Nitrobenzene-d5 (Surr)	*80*		*11 - 116*	*04/25/22 07:20*	*04/28/22 20:14*	*5*
Terphenyl-d14 (Surr)	*102*		*18 - 110*	*04/25/22 07:20*	*04/28/22 20:14*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**298**		8.99		mg/Kg	☼	05/04/22 10:30	05/06/22 13:23	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP10

Date Collected: 04/20/22 11:37
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-10

Matrix: Soil
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0707		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Acenaphthylene	0.0907		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Anthracene	0.241		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Benzo(a)anthracene	0.726		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Benzo(a)pyrene	0.659		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Benzo(b)fluoranthene	0.817		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Benzo(g,h,i)perylene	0.467		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Benzo(k)fluoranthene	0.267		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Chrysene	0.947		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Dibenz(a,h)anthracene	0.131		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Fluoranthene	1.32		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Fluorene	0.0939		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Indeno(1,2,3-cd)pyrene	0.313		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
2-Methylnaphthalene	0.465		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Naphthalene	0.319		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Phenanthrene	1.49		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5
Pyrene	1.38		0.0556		mg/Kg	☼	04/25/22 07:20	04/28/22 20:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*20 - 110*	*04/25/22 07:20*	*04/28/22 20:34*	*5*
Nitrobenzene-d5 (Surr)	*79*		*11 - 116*	*04/25/22 07:20*	*04/28/22 20:34*	*5*
Terphenyl-d14 (Surr)	*100*		*18 - 110*	*04/25/22 07:20*	*04/28/22 20:34*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	358		13.1		mg/Kg	☼	05/04/22 10:30	05/06/22 13:29	3

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP11

Date Collected: 04/20/22 11:55
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-11

Matrix: Soil
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0864		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Acenaphthylene	0.378		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Anthracene	0.497		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Benzo(a)anthracene	1.67		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Benzo(a)pyrene	1.63		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Benzo(b)fluoranthene	2.78		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Benzo(g,h,i)perylene	0.911		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Benzo(k)fluoranthene	<0.0560		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Chrysene	2.17		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Dibenz(a,h)anthracene	0.238		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Fluoranthene	3.45		0.560		mg/Kg	☼	04/25/22 07:20	04/29/22 18:23	50
Fluorene	0.238		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Indeno(1,2,3-cd)pyrene	0.755		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
2-Methylnaphthalene	0.521		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Naphthalene	0.384		0.0560		mg/Kg	☼	04/25/22 07:20	04/28/22 20:53	5
Phenanthrene	4.04		0.560		mg/Kg	☼	04/25/22 07:20	04/29/22 18:23	50
Pyrene	3.02		0.560		mg/Kg	☼	04/25/22 07:20	04/29/22 18:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*97*		*20 - 110*	*04/25/22 07:20*	*04/28/22 20:53*	*5*
Nitrobenzene-d5 (Surr)	*88*		*11 - 116*	*04/25/22 07:20*	*04/28/22 20:53*	*5*
Terphenyl-d14 (Surr)	*106*		*18 - 110*	*04/25/22 07:20*	*04/28/22 20:53*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	314		13.5		mg/Kg	☼	05/04/22 10:30	05/06/22 13:31	3

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP12

Date Collected: 04/20/22 12:02
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-12

Matrix: Soil
Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0615		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Acenaphthylene	0.178		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Anthracene	0.258		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Benzo(a)anthracene	0.881		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Benzo(a)pyrene	0.837		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Benzo(b)fluoranthene	1.13		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Benzo(g,h,i)perylene	0.530		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Benzo(k)fluoranthene	0.317		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Chrysene	1.11		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Dibenz(a,h)anthracene	0.143		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Fluoranthene	1.53		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Fluorene	0.0824		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Indeno(1,2,3-cd)pyrene	0.396		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
2-Methylnaphthalene	0.890		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Naphthalene	0.516		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Phenanthrene	1.62		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5
Pyrene	1.56		0.0608		mg/Kg	☼	04/25/22 07:20	04/28/22 21:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*99*		*20 - 110*	*04/25/22 07:20*	*04/28/22 21:13*	*5*
Nitrobenzene-d5 (Surr)	*87*		*11 - 116*	*04/25/22 07:20*	*04/28/22 21:13*	*5*
Terphenyl-d14 (Surr)	*96*		*18 - 110*	*04/25/22 07:20*	*04/28/22 21:13*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	266		9.12		mg/Kg	☼	05/04/22 10:30	05/06/22 13:35	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP13

Date Collected: 04/20/22 12:10
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-13

Matrix: Soil
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0637		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Acenaphthylene	0.152		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Anthracene	0.259		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Benzo(a)anthracene	0.748		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Benzo(a)pyrene	0.668		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Benzo(b)fluoranthene	1.14		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Benzo(g,h,i)perylene	0.375		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Benzo(k)fluoranthene	<0.0598		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Chrysene	0.918		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Dibenz(a,h)anthracene	0.101		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Fluoranthene	1.42		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Fluorene	0.0621		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Indeno(1,2,3-cd)pyrene	0.294		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
2-Methylnaphthalene	1.67		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Naphthalene	0.975		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Phenanthrene	1.60		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5
Pyrene	1.50		0.0598		mg/Kg	☼	04/25/22 07:20	04/28/22 21:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*20 - 110*	*04/25/22 07:20*	*04/28/22 21:32*	*5*
Nitrobenzene-d5 (Surr)	*82*		*11 - 116*	*04/25/22 07:20*	*04/28/22 21:32*	*5*
Terphenyl-d14 (Surr)	*104*		*18 - 110*	*04/25/22 07:20*	*04/28/22 21:32*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	260		9.12		mg/Kg	☼	05/04/22 10:30	05/06/22 13:37	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP14

Date Collected: 04/20/22 12:15
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-14

Matrix: Soil
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0616		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Acenaphthylene	**0.135**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Anthracene	**0.212**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Benzo(a)anthracene	**0.764**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Benzo(a)pyrene	**0.762**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Benzo(b)fluoranthene	**0.968**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Benzo(g,h,i)perylene	**0.473**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Benzo(k)fluoranthene	**0.318**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Chrysene	**1.05**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Dibenz(a,h)anthracene	**0.142**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Fluoranthene	**1.39**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Fluorene	**0.0667**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Indeno(1,2,3-cd)pyrene	**0.332**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
2-Methylnaphthalene	**0.739**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Naphthalene	**0.440**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Phenanthrene	**1.47**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5
Pyrene	**1.50**		0.0616		mg/Kg	☼	04/25/22 07:20	04/28/22 21:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*20 - 110*	*04/25/22 07:20*	*04/28/22 21:52*	*5*
Nitrobenzene-d5 (Surr)	*65*		*11 - 116*	*04/25/22 07:20*	*04/28/22 21:52*	*5*
Terphenyl-d14 (Surr)	*80*		*18 - 110*	*04/25/22 07:20*	*04/28/22 21:52*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**419**		9.10		mg/Kg	☼	05/04/22 10:30	05/06/22 13:39	2

Client Sample ID: SP15

Date Collected: 04/20/22 12:21
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-15

Matrix: Soil
Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0887		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Acenaphthylene	0.153		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Anthracene	0.278		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Benzo(a)anthracene	0.805		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Benzo(a)pyrene	0.707		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Benzo(b)fluoranthene	0.928		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Benzo(g,h,i)perylene	0.371		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Benzo(k)fluoranthene	0.287		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Chrysene	1.03		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Dibenz(a,h)anthracene	0.128		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Fluoranthene	1.42		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Fluorene	0.0752		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Indeno(1,2,3-cd)pyrene	0.287		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
2-Methylnaphthalene	0.908		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Naphthalene	0.445		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Phenanthrene	1.89		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5
Pyrene	1.52		0.0588		mg/Kg	☼	04/25/22 07:20	04/28/22 22:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*20 - 110*	*04/25/22 07:20*	*04/28/22 22:11*	*5*
Nitrobenzene-d5 (Surr)	*83*		*11 - 116*	*04/25/22 07:20*	*04/28/22 22:11*	*5*
Terphenyl-d14 (Surr)	*103*		*18 - 110*	*04/25/22 07:20*	*04/28/22 22:11*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	240		8.97		mg/Kg	☼	05/04/22 10:30	05/06/22 13:41	2

Client Sample ID: SP16

Date Collected: 04/20/22 12:28
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-16

Matrix: Soil
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0626		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Acenaphthylene	0.0861		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Anthracene	0.203		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Benzo(a)anthracene	0.650		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Benzo(a)pyrene	0.601		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Benzo(b)fluoranthene	0.744		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Benzo(g,h,i)perylene	0.581		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Benzo(k)fluoranthene	0.255		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Chrysene	0.902		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Dibenz(a,h)anthracene	0.165		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Fluoranthene	0.980		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Fluorene	0.0703		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Indeno(1,2,3-cd)pyrene	0.378		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
2-Methylnaphthalene	0.678		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Naphthalene	0.430		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Phenanthrene	1.48		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5
Pyrene	1.02		0.0579		mg/Kg	☼	04/25/22 07:20	04/29/22 16:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*20 - 110*	*04/25/22 07:20*	*04/29/22 16:46*	*5*
Nitrobenzene-d5 (Surr)	*69*		*11 - 116*	*04/25/22 07:20*	*04/29/22 16:46*	*5*
Terphenyl-d14 (Surr)	*66*		*18 - 110*	*04/25/22 07:20*	*04/29/22 16:46*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	341		9.32		mg/Kg	☼	05/04/22 10:30	05/06/22 13:43	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP17

Date Collected: 04/20/22 12:32
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-17

Matrix: Soil
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0587		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Acenaphthylene	**0.0760**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Anthracene	**0.240**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Benzo(a)anthracene	**0.983**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Benzo(a)pyrene	**0.953**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Benzo(b)fluoranthene	**1.15**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Benzo(g,h,i)perylene	**0.834**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Benzo(k)fluoranthene	**0.338**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Chrysene	**1.39**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Dibenz(a,h)anthracene	**0.278**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Fluoranthene	**1.29**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Fluorene	**0.0729**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Indeno(1,2,3-cd)pyrene	**0.546**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
2-Methylnaphthalene	**0.687**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Naphthalene	**0.407**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Phenanthrene	**2.16**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5
Pyrene	**1.38**		0.0587		mg/Kg	☼	04/25/22 07:20	04/29/22 17:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*20 - 110*	*04/25/22 07:20*	*04/29/22 17:05*	*5*
Nitrobenzene-d5 (Surr)	*76*		*11 - 116*	*04/25/22 07:20*	*04/29/22 17:05*	*5*
Terphenyl-d14 (Surr)	*67*		*18 - 110*	*04/25/22 07:20*	*04/29/22 17:05*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**469**		8.80		mg/Kg	☼	05/04/22 10:30	05/06/22 13:45	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP18

Date Collected: 04/20/22 12:38
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-18

Matrix: Soil
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0671		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Acenaphthylene	0.0992		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Anthracene	0.245		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Benzo(a)anthracene	0.810		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Benzo(a)pyrene	0.776		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Benzo(b)fluoranthene	1.28		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Benzo(g,h,i)perylene	0.538		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Benzo(k)fluoranthene	<0.0568		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Chrysene	0.985		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Dibenz(a,h)anthracene	0.120		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Fluoranthene	1.22		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Fluorene	0.0771		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Indeno(1,2,3-cd)pyrene	0.413		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
2-Methylnaphthalene	0.582		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Naphthalene	0.362		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Phenanthrene	1.73		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5
Pyrene	1.16		0.0568		mg/Kg	☼	04/25/22 07:20	04/29/22 17:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*20 - 110*	*04/25/22 07:20*	*04/29/22 17:24*	*5*
Nitrobenzene-d5 (Surr)	*71*		*11 - 116*	*04/25/22 07:20*	*04/29/22 17:24*	*5*
Terphenyl-d14 (Surr)	*61*		*18 - 110*	*04/25/22 07:20*	*04/29/22 17:24*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	332		8.92		mg/Kg	☼	05/04/22 10:30	05/06/22 13:47	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP19

Date Collected: 04/20/22 12:43
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-19

Matrix: Soil
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0843		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Acenaphthylene	0.0975		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Anthracene	0.272		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Benzo(a)anthracene	0.796		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Benzo(a)pyrene	0.743		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Benzo(b)fluoranthene	1.25		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Benzo(g,h,i)perylene	0.509		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Benzo(k)fluoranthene	<0.0590		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Chrysene	1.06		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Dibenz(a,h)anthracene	0.131		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Fluoranthene	1.31		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Fluorene	0.110		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Indeno(1,2,3-cd)pyrene	0.391		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
2-Methylnaphthalene	0.571		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Naphthalene	0.292		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Phenanthrene	1.75		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5
Pyrene	1.30		0.0590		mg/Kg	☼	04/25/22 07:20	04/29/22 17:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*20 - 110*	*04/25/22 07:20*	*04/29/22 17:44*	*5*
Nitrobenzene-d5 (Surr)	*85*		*11 - 116*	*04/25/22 07:20*	*04/29/22 17:44*	*5*
Terphenyl-d14 (Surr)	*77*		*18 - 110*	*04/25/22 07:20*	*04/29/22 17:44*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	410		8.86		mg/Kg	☼	05/04/22 10:30	05/06/22 13:50	2

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP20

Date Collected: 04/20/22 12:50
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-20

Matrix: Soil
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0641		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Acenaphthylene	<0.0641		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Anthracene	**0.121**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Benzo(a)anthracene	**0.320**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Benzo(a)pyrene	**0.298**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Benzo(b)fluoranthene	**0.389**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Benzo(g,h,i)perylene	**0.281**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Benzo(k)fluoranthene	**0.120**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Chrysene	**0.498**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Dibenz(a,h)anthracene	**0.0763**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Fluoranthene	**0.523**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Fluorene	<0.0641		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Indeno(1,2,3-cd)pyrene	**0.178**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
2-Methylnaphthalene	**0.399**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Naphthalene	**0.256**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Phenanthrene	**0.862**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5
Pyrene	**0.517**		0.0641		mg/Kg	☼	04/25/22 07:20	04/29/22 18:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*20 - 110*	*04/25/22 07:20*	*04/29/22 18:03*	*5*
Nitrobenzene-d5 (Surr)	*76*		*11 - 116*	*04/25/22 07:20*	*04/29/22 18:03*	*5*
Terphenyl-d14 (Surr)	*75*		*18 - 110*	*04/25/22 07:20*	*04/29/22 18:03*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**218**		9.36		mg/Kg	☼	05/04/22 10:30	05/06/22 13:52	2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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

Surrogate Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

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

Matrix: Soil — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(20-110)	(11-116)	(18-110)
310-229794-1	SP1	90	88	99
310-229794-1 MS	SP1	88	85	91
310-229794-1 MSD	SP1	109	108	115 S1+
310-229794-2	SP2	76	76	83
310-229794-3	SP3	85	86	99
310-229794-4	SP4	91	82	91
310-229794-5	SP5	97	85	105
310-229794-6	SP6	100	83	100
310-229794-7	SP7	86	91	94
310-229794-8	SP8	93	83	104
310-229794-9	SP9	87	80	102
310-229794-10	SP10	87	79	100
310-229794-11	SP11	97	88	106
310-229794-12	SP12	99	87	96
310-229794-13	SP13	82	82	104
310-229794-14	SP14	70	65	80
310-229794-15	SP15	84	83	103
310-229794-16	SP16	81	69	66
310-229794-17	SP17	80	76	67
310-229794-18	SP18	77	71	61
310-229794-19	SP19	89	85	77
310-229794-20	SP20	86	76	75

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(20-110)	(11-116)	(18-110)
LCS 310-350862/2-A	Lab Control Sample	81	76	93
MB 310-350862/1-A	Method Blank	75	68	82

Surrogate Legend

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

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

Lab Sample ID: MB 310-350862/1-A
Matrix: Solid
Analysis Batch: 351360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Acenaphthylene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Anthracene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Benzo(a)anthracene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Benzo(a)pyrene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Benzo(b)fluoranthene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Benzo(g,h,i)perylene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Benzo(k)fluoranthene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Chrysene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Dibenz(a,h)anthracene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Fluoranthene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Fluorene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Indeno(1,2,3-cd)pyrene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
2-Methylnaphthalene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Naphthalene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Phenanthrene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1
Pyrene	<0.00994		0.00994		mg/Kg		04/25/22 07:20	04/28/22 10:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*20 - 110*	*04/25/22 07:20*	*04/28/22 10:50*	*1*
Nitrobenzene-d5 (Surr)	*68*		*11 - 116*	*04/25/22 07:20*	*04/28/22 10:50*	*1*
Terphenyl-d14 (Surr)	*82*		*18 - 110*	*04/25/22 07:20*	*04/28/22 10:50*	*1*

Lab Sample ID: LCS 310-350862/2-A
Matrix: Solid
Analysis Batch: 351360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.132	0.1040		mg/Kg		79	30 - 110
Acenaphthylene	0.132	0.1055		mg/Kg		80	31 - 110
Anthracene	0.132	0.1050		mg/Kg		80	32 - 110
Benzo(a)anthracene	0.132	0.1075		mg/Kg		82	36 - 110
Benzo(a)pyrene	0.132	0.1152		mg/Kg		87	36 - 110
Benzo(b)fluoranthene	0.132	0.1191		mg/Kg		90	37 - 110
Benzo(g,h,i)perylene	0.132	0.1011		mg/Kg		77	22 - 110
Benzo(k)fluoranthene	0.132	0.1206		mg/Kg		91	35 - 110
Chrysene	0.132	0.1107		mg/Kg		84	35 - 110
Dibenz(a,h)anthracene	0.132	0.1080		mg/Kg		82	23 - 110
Fluoranthene	0.132	0.1093		mg/Kg		83	30 - 110
Fluorene	0.132	0.1085		mg/Kg		82	30 - 110
Indeno(1,2,3-cd)pyrene	0.132	0.1073		mg/Kg		81	23 - 110
2-Methylnaphthalene	0.132	0.1032		mg/Kg		78	30 - 110
Naphthalene	0.132	0.09099		mg/Kg		69	31 - 110
Phenanthrene	0.132	0.1076		mg/Kg		82	32 - 110
Pyrene	0.132	0.1104		mg/Kg		84	28 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*20 - 110*

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

Lab Sample ID: LCS 310-350862/2-A
Matrix: Solid
Analysis Batch: 351360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350862

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	*76*		*11 - 116*
Terphenyl-d14 (Surr)	*93*		*18 - 110*

Lab Sample ID: 310-229794-1 MS
Matrix: Soil
Analysis Batch: 351360

Client Sample ID: SP1
Prep Type: Total/NA
Prep Batch: 350862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<0.0612	F1 F2	0.162	0.1920		mg/Kg	☼	93	21 - 110
Acenaphthylene	0.0894	F1 F2	0.162	0.1952		mg/Kg	☼	65	22 - 110
Anthracene	0.183	F1 F2	0.162	0.3270		mg/Kg	☼	89	20 - 110
Benzo(a)anthracene	0.610	F1 F2	0.162	0.7466		mg/Kg	☼	84	20 - 110
Benzo(a)pyrene	0.632	F2	0.162	0.6912		mg/Kg	☼	36	16 - 115
Benzo(b)fluoranthene	0.790	F2	0.162	0.6947	4	mg/Kg	☼	-59	18 - 115
Benzo(g,h,i)perylene	0.625	F2	0.162	0.7128		mg/Kg	☼	54	14 - 110
Benzo(k)fluoranthene	0.265	F1 F2	0.162	0.3521		mg/Kg	☼	54	24 - 110
Chrysene	0.857	F2	0.162	1.048	4	mg/Kg	☼	118	18 - 110
Dibenz(a,h)anthracene	0.155	F1	0.162	0.3039		mg/Kg	☼	92	21 - 110
Fluoranthene	0.977	F2	0.162	0.9036	4	mg/Kg	☼	-45	10 - 110
Fluorene	<0.0612	F1 F2	0.162	0.1923		mg/Kg	☼	84	16 - 110
Indeno(1,2,3-cd)pyrene	0.402	F1 F2	0.162	0.4750		mg/Kg	☼	45	16 - 110
2-Methylnaphthalene	0.446	F1 F2	0.162	0.5024		mg/Kg	☼	35	18 - 110
Naphthalene	0.289	F1 F2	0.162	0.2797	F1	mg/Kg	☼	-6	18 - 110
Phenanthrene	1.05	F2	0.162	1.376	4	mg/Kg	☼	203	13 - 110
Pyrene	0.992	F2	0.162	1.076	4	mg/Kg	☼	52	15 - 110

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	*88*		*20 - 110*
Nitrobenzene-d5 (Surr)	*85*		*11 - 116*
Terphenyl-d14 (Surr)	*91*		*18 - 110*

Lab Sample ID: 310-229794-1 MSD
Matrix: Soil
Analysis Batch: 351360

Client Sample ID: SP1
Prep Type: Total/NA
Prep Batch: 350862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<0.0612	F1 F2	0.156	0.2947	F1 F2	mg/Kg	☼	162	21 - 110	42	40
Acenaphthylene	0.0894	F1 F2	0.156	0.3206	F1 F2	mg/Kg	☼	148	22 - 110	49	40
Anthracene	0.183	F1 F2	0.156	0.6205	F1 F2	mg/Kg	☼	280	20 - 110	62	39
Benzo(a)anthracene	0.610	F1 F2	0.156	1.817	F1 F2	mg/Kg	☼	773	20 - 110	83	39
Benzo(a)pyrene	0.632	F2	0.156	1.882	4 F2	mg/Kg	☼	801	16 - 115	93	40
Benzo(b)fluoranthene	0.790	F2	0.156	2.198	4 F2	mg/Kg	☼	902	18 - 115	104	40
Benzo(g,h,i)perylene	0.625	F2	0.156	1.483	4 F2	mg/Kg	☼	550	14 - 110	70	38
Benzo(k)fluoranthene	0.265	F1 F2	0.156	0.7327	F1 F2	mg/Kg	☼	300	24 - 110	70	39
Chrysene	0.857	F2	0.156	1.974	4 F2	mg/Kg	☼	716	18 - 110	61	38
Dibenz(a,h)anthracene	0.155	F1	0.156	0.4228	F1	mg/Kg	☼	171	21 - 110	33	36
Fluoranthene	0.977	F2	0.156	2.890	4 F2	mg/Kg	☼	1225	10 - 110	105	40
Fluorene	<0.0612	F1 F2	0.156	0.3345	F1 F2	mg/Kg	☼	178	16 - 110	54	40

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

Lab Sample ID: 310-229794-1 MSD
Matrix: Soil
Analysis Batch: 351360

Client Sample ID: SP1
Prep Type: Total/NA
Prep Batch: 350862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Indeno(1,2,3-cd)pyrene	0.402	F1 F2	0.156	1.147	F1 F2	mg/Kg	☼	477	16 - 110	83	38
2-Methylnaphthalene	0.446	F1 F2	0.156	1.158	F1 F2	mg/Kg	☼	456	18 - 110	79	40
Naphthalene	0.289	F1 F2	0.156	0.9777	F1 F2	mg/Kg	☼	441	18 - 110	111	40
Phenanthrene	1.05	F2	0.156	2.739	4 F2	mg/Kg	☼	1084	13 - 110	66	40
Pyrene	0.992	F2	0.156	2.812	4 F2	mg/Kg	☼	1166	15 - 110	89	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*109*		*20 - 110*
Nitrobenzene-d5 (Surr)	*108*		*11 - 116*
Terphenyl-d14 (Surr)	*115*	*S1+*	*18 - 110*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-351939/1-A
Matrix: Solid
Analysis Batch: 352287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<4.46		4.46		mg/Kg		05/04/22 10:30	05/06/22 11:51	1

Lab Sample ID: LCS 310-351939/2-A
Matrix: Solid
Analysis Batch: 352287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	161	170.4		mg/Kg		106	80 - 120

Lab Sample ID: 310-229794-1 MS
Matrix: Soil
Analysis Batch: 352287

Client Sample ID: SP1
Prep Type: Total/NA
Prep Batch: 351939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	364	F1	195	463.1	F1	mg/Kg	☼	51	75 - 125

Lab Sample ID: 310-229794-1 MSD
Matrix: Soil
Analysis Batch: 352287

Client Sample ID: SP1
Prep Type: Total/NA
Prep Batch: 351939

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	364	F1	197	474.9	F1	mg/Kg	☼	56	75 - 125	3	20

Lab Sample ID: 310-229794-11 DU
Matrix: Soil
Analysis Batch: 352287

Client Sample ID: SP11
Prep Type: Total/NA
Prep Batch: 351939

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	314		381.2		mg/Kg	☼	19	20

GC/MS Semi VOA

Prep Batch: 350862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-1	SP1	Total/NA	Soil	3546	
310-229794-2	SP2	Total/NA	Soil	3546	
310-229794-3	SP3	Total/NA	Soil	3546	
310-229794-4	SP4	Total/NA	Soil	3546	
310-229794-5	SP5	Total/NA	Soil	3546	
310-229794-6	SP6	Total/NA	Soil	3546	
310-229794-7	SP7	Total/NA	Soil	3546	
310-229794-8	SP8	Total/NA	Soil	3546	
310-229794-9	SP9	Total/NA	Soil	3546	
310-229794-10	SP10	Total/NA	Soil	3546	
310-229794-11	SP11	Total/NA	Soil	3546	
310-229794-12	SP12	Total/NA	Soil	3546	
310-229794-13	SP13	Total/NA	Soil	3546	
310-229794-14	SP14	Total/NA	Soil	3546	
310-229794-15	SP15	Total/NA	Soil	3546	
310-229794-16	SP16	Total/NA	Soil	3546	
310-229794-17	SP17	Total/NA	Soil	3546	
310-229794-18	SP18	Total/NA	Soil	3546	
310-229794-19	SP19	Total/NA	Soil	3546	
310-229794-20	SP20	Total/NA	Soil	3546	
MB 310-350862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-350862/2-A	Lab Control Sample	Total/NA	Solid	3546	
310-229794-1 MS	SP1	Total/NA	Soil	3546	
310-229794-1 MSD	SP1	Total/NA	Soil	3546	

Analysis Batch: 351360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-1	SP1	Total/NA	Soil	8270E SIM	350862
310-229794-2	SP2	Total/NA	Soil	8270E SIM	350862
310-229794-3	SP3	Total/NA	Soil	8270E SIM	350862
310-229794-4	SP4	Total/NA	Soil	8270E SIM	350862
310-229794-5	SP5	Total/NA	Soil	8270E SIM	350862
310-229794-6	SP6	Total/NA	Soil	8270E SIM	350862
310-229794-7	SP7	Total/NA	Soil	8270E SIM	350862
310-229794-8	SP8	Total/NA	Soil	8270E SIM	350862
310-229794-9	SP9	Total/NA	Soil	8270E SIM	350862
310-229794-10	SP10	Total/NA	Soil	8270E SIM	350862
310-229794-11	SP11	Total/NA	Soil	8270E SIM	350862
310-229794-12	SP12	Total/NA	Soil	8270E SIM	350862
310-229794-13	SP13	Total/NA	Soil	8270E SIM	350862
310-229794-14	SP14	Total/NA	Soil	8270E SIM	350862
310-229794-15	SP15	Total/NA	Soil	8270E SIM	350862
MB 310-350862/1-A	Method Blank	Total/NA	Solid	8270E SIM	350862
LCS 310-350862/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	350862
310-229794-1 MS	SP1	Total/NA	Soil	8270E SIM	350862
310-229794-1 MSD	SP1	Total/NA	Soil	8270E SIM	350862

Analysis Batch: 351472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-11	SP11	Total/NA	Soil	8270E SIM	350862
310-229794-16	SP16	Total/NA	Soil	8270E SIM	350862

GC/MS Semi VOA (Continued)

Analysis Batch: 351472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-17	SP17	Total/NA	Soil	8270E SIM	350862
310-229794-18	SP18	Total/NA	Soil	8270E SIM	350862
310-229794-19	SP19	Total/NA	Soil	8270E SIM	350862
310-229794-20	SP20	Total/NA	Soil	8270E SIM	350862

Metals

Prep Batch: 351939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-1	SP1	Total/NA	Soil	3050B	
310-229794-2	SP2	Total/NA	Soil	3050B	
310-229794-3	SP3	Total/NA	Soil	3050B	
310-229794-4	SP4	Total/NA	Soil	3050B	
310-229794-5	SP5	Total/NA	Soil	3050B	
310-229794-6	SP6	Total/NA	Soil	3050B	
310-229794-7	SP7	Total/NA	Soil	3050B	
310-229794-8	SP8	Total/NA	Soil	3050B	
310-229794-9	SP9	Total/NA	Soil	3050B	
310-229794-10	SP10	Total/NA	Soil	3050B	
310-229794-11	SP11	Total/NA	Soil	3050B	
310-229794-12	SP12	Total/NA	Soil	3050B	
310-229794-13	SP13	Total/NA	Soil	3050B	
310-229794-14	SP14	Total/NA	Soil	3050B	
310-229794-15	SP15	Total/NA	Soil	3050B	
310-229794-16	SP16	Total/NA	Soil	3050B	
310-229794-17	SP17	Total/NA	Soil	3050B	
310-229794-18	SP18	Total/NA	Soil	3050B	
310-229794-19	SP19	Total/NA	Soil	3050B	
310-229794-20	SP20	Total/NA	Soil	3050B	
MB 310-351939/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 310-351939/2-A	Lab Control Sample	Total/NA	Solid	3050B	
310-229794-1 MS	SP1	Total/NA	Soil	3050B	
310-229794-1 MSD	SP1	Total/NA	Soil	3050B	
310-229794-11 DU	SP11	Total/NA	Soil	3050B	

Analysis Batch: 352287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-1	SP1	Total/NA	Soil	6010C	351939
310-229794-2	SP2	Total/NA	Soil	6010C	351939
310-229794-3	SP3	Total/NA	Soil	6010C	351939
310-229794-4	SP4	Total/NA	Soil	6010C	351939
310-229794-5	SP5	Total/NA	Soil	6010C	351939
310-229794-6	SP6	Total/NA	Soil	6010C	351939
310-229794-7	SP7	Total/NA	Soil	6010C	351939
310-229794-8	SP8	Total/NA	Soil	6010C	351939
310-229794-9	SP9	Total/NA	Soil	6010C	351939
310-229794-10	SP10	Total/NA	Soil	6010C	351939
310-229794-11	SP11	Total/NA	Soil	6010C	351939
310-229794-12	SP12	Total/NA	Soil	6010C	351939
310-229794-13	SP13	Total/NA	Soil	6010C	351939
310-229794-14	SP14	Total/NA	Soil	6010C	351939

Metals (Continued)

Analysis Batch: 352287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-15	SP15	Total/NA	Soil	6010C	351939
310-229794-16	SP16	Total/NA	Soil	6010C	351939
310-229794-17	SP17	Total/NA	Soil	6010C	351939
310-229794-18	SP18	Total/NA	Soil	6010C	351939
310-229794-19	SP19	Total/NA	Soil	6010C	351939
310-229794-20	SP20	Total/NA	Soil	6010C	351939
MB 310-351939/1-A	Method Blank	Total/NA	Solid	6010C	351939
LCS 310-351939/2-A	Lab Control Sample	Total/NA	Solid	6010C	351939
310-229794-1 MS	SP1	Total/NA	Soil	6010C	351939
310-229794-1 MSD	SP1	Total/NA	Soil	6010C	351939
310-229794-11 DU	SP11	Total/NA	Soil	6010C	351939

Lab Chronicle

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP1
Date Collected: 04/20/22 10:20
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-1
Matrix: Soil
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 17:38	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		3	352287	05/06/22 12:58	CTB	TAL CF

Client Sample ID: SP2
Date Collected: 04/20/22 10:35
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-2
Matrix: Soil
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 17:58	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		3	352287	05/06/22 13:08	CTB	TAL CF

Client Sample ID: SP3
Date Collected: 04/20/22 10:45
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-3
Matrix: Soil
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 18:17	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:10	CTB	TAL CF

Client Sample ID: SP4
Date Collected: 04/20/22 10:52
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-4
Matrix: Soil
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 18:37	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:12	CTB	TAL CF

Client Sample ID: SP5
Date Collected: 04/20/22 11:56
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-5
Matrix: Soil
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 18:56	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:14	CTB	TAL CF

Lab Chronicle

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP6
Date Collected: 04/20/22 11:04
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-6
Matrix: Soil
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 19:16	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		3	352287	05/06/22 13:16	CTB	TAL CF

Client Sample ID: SP7
Date Collected: 04/20/22 11:10
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-7
Matrix: Soil
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 19:35	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:19	CTB	TAL CF

Client Sample ID: SP8
Date Collected: 04/20/22 11:17
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-8
Matrix: Soil
Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 19:55	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		3	352287	05/06/22 13:21	CTB	TAL CF

Client Sample ID: SP9
Date Collected: 04/20/22 11:30
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-9
Matrix: Soil
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 20:14	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:23	CTB	TAL CF

Client Sample ID: SP10
Date Collected: 04/20/22 11:37
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-10
Matrix: Soil
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 20:34	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		3	352287	05/06/22 13:29	CTB	TAL CF

Lab Chronicle

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP11
Date Collected: 04/20/22 11:55
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-11
Matrix: Soil
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 20:53	BKT	TAL CF
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		50	351472	04/29/22 18:23	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		3	352287	05/06/22 13:31	CTB	TAL CF

Client Sample ID: SP12
Date Collected: 04/20/22 12:02
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-12
Matrix: Soil
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 21:13	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:35	CTB	TAL CF

Client Sample ID: SP13
Date Collected: 04/20/22 12:10
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-13
Matrix: Soil
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 21:32	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:37	CTB	TAL CF

Client Sample ID: SP14
Date Collected: 04/20/22 12:15
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-14
Matrix: Soil
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 21:52	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:39	CTB	TAL CF

Client Sample ID: SP15
Date Collected: 04/20/22 12:21
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-15
Matrix: Soil
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351360	04/28/22 22:11	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:41	CTB	TAL CF

Lab Chronicle

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Client Sample ID: SP16
Date Collected: 04/20/22 12:28
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-16
Matrix: Soil
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351472	04/29/22 16:46	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:43	CTB	TAL CF

Client Sample ID: SP17
Date Collected: 04/20/22 12:32
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-17
Matrix: Soil
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351472	04/29/22 17:05	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:45	CTB	TAL CF

Client Sample ID: SP18
Date Collected: 04/20/22 12:38
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-18
Matrix: Soil
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351472	04/29/22 17:24	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:47	CTB	TAL CF

Client Sample ID: SP19
Date Collected: 04/20/22 12:43
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-19
Matrix: Soil
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351472	04/29/22 17:44	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:50	CTB	TAL CF

Client Sample ID: SP20
Date Collected: 04/20/22 12:50
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-20
Matrix: Soil
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			350862	04/25/22 07:20	KMH	TAL CF
Total/NA	Analysis	8270E SIM		5	351472	04/29/22 18:03	BKT	TAL CF
Total/NA	Prep	3050B			351939	05/04/22 10:30	ACM2	TAL CF
Total/NA	Analysis	6010C		2	352287	05/06/22 13:52	CTB	TAL CF

Lab Chronicle

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Laboratory References:

TAL CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-22
Georgia	State	IA100001 (OR)	09-29-22
Illinois	NELAP	200024	11-29-22
Iowa	State	007	12-01-21 *
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-22
Oregon	NELAP	IA100001	09-29-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-1
SDG: 1934.16

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
3050B	Preparation, Metals	SW846	TAL CF
3546	Microwave Extraction	SW846	TAL CF

Protocol References:

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

Laboratory References:

TAL CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

eurofins | Environment Testing America

310-229794 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Blackstone

City/State: CITY Moline | STATE IL | Project:

Receipt Information

Date/Time Received: DATE 4-22-22 | TIME 0900 | Received By: CC

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other._____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes* Cooler ID

Multiple Coolers? ☒ Yes ~~☐ No~~ CC 4-22-22 *If yes* Cooler # 1 of 2

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other._____ ☐ NONE

Thermometer ID: N | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 5.1 | Corrected Temp (°C): 5.1

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used		
Uncorrected Temp (°C)		
Corrected Temp (°C)		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Blackstone

City/State: CITY Moline | STATE IL | Project

Receipt Information

Date/Time Received: DATE 4-22-22 | TIME 0900 | Received By: CE

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other._____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes*	Cooler ID
Multiple Coolers?	☒ Yes	☐ No	*If yes*	Cooler # 2 of 2
Cooler Custody Seals Present? No	☒ Yes	☐ No	*If yes*	Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present? No	☐ Yes	☒ No	*If yes*	Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☒ No	*If yes*	Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other._____ ☐ NONE

Thermometer ID: N | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.6 | Corrected Temp (°C): 0.6

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used		
Uncorrected Temp (°C)		
Corrected Temp (°C)		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

TestAmerica Davenport SC
212

Chain of Custody Record

eurofins Environment Testing America

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☑ Other IOWA

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Krista Brodersen	Site Contact: KB	Date: 4-20-2022	COC No:
Blackstone Environmental	Email: kbrodersen@blackstone-env.com	Lab Contact:	Carrier:	1 of 2 COCs
1465 41st Street, Suite 13	Tel/Fax:			TALS Project #:
Moline, Illinois 61265	Analysis Turnaround Time			Sampler:
309-798-3487 Phone	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below ____			Walk-in Client:
Project Name: Tech Park	☑ 2 weeks			Lab Sampling:
Site: Tech Park	☐ 1 week			
P O # 1934.16	☐ 2 days			Job / SDG No.
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PAHs	lead	lead TCLP	Sample Specific Notes:
SP1	4/20/2022	10:20	G	S	2			x	x		hold TCLP
SP2	4/20/2022	10 35	G	S				x	x		hold TCLP
SP3	4/20/2022	10 45	G	S				x	x		hold TCLP
SP4	4/20/2022	10 56	G	S				x	x		hold TCLP
SP5	4/20/2022	11 56	G	S				x	x		hold TCLP
SP6	4/20/2022	11 04	G	S				x	x		hold TCLP
SP7	4/20/2022	11 10	G	S				x	x		hold TCLP
SP8	4/20/2022	11 17	G	S				x	x		hold TCLP
SP9	4/20/2022	~~11 30~~ 11 30	G	S				x	x		hold TCLP
SP10	4/20/2022	11 37	G	S				x	x		hold TCLP
SP11	4/20/2022	11 55	G	S				x	x		hold TCLP
SP12	4/20/2022	12 02	G	S				x	x		hold TCLP

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd. ____ Corr'd. ____		Therm ID No.: ____
Relinquished by: Krista Brodersen	Company: Blackstone	Date/Time: 4-20-22 1312	Received by:	Company: FN	Date/Time: 4/21/22 1315
Relinquished by:	Company:	Date/Time: 4-21-22	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 4/21/22 0900

Page 50 of 52

5/6/2022

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

TestAmerica Davenport
212

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☑ Other IOWA

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	**Project Manager: Krista Brodersen**	**COC No:**
Blackstone Environmental	Email: kbrodersen@blackstone-env.com	**Site Contact: KB** — **Date: 4-20-2022** — ___1___ of __2___ COCs
1465 41st Street, Suite 13	Tel/Fax:	**Lab Contact:** — **Carrier:** — TALS Project #:
Moline, Illinois 61265	**Analysis Turnaround Time** ☐ CALENDAR DAYS ☐ WORKING DAYS	Sampler:
309-798-3487 Phone	TAT if different from Below _____	**For Lab Use Only:** Walk-in Client:
(xxx) xxx-xxxx FAX	☑ 2 weeks	Lab Sampling
Project Name: Tech Park	☐ 1 week	
Site: Tech Park	☐ 2 days	Job / SDG No.
P O # 1934.16	☐ 1 day	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PAHs	lead	lead TCLP	Sample Specific Notes:
SP13	4/20/2022	12 10	G	S				x	x		hold TCLP
SP14	4/20/2022	12 15	G	S				x	x		hold TCLP
SP15	4/20/2022	12 21	G	S				x	x		hold TCLP
SP16	4/20/2022	12 28	G	S				x	x		hold TCLP
SP17	4/20/2022	12 32	G	S				x	x		hold TCLP
SP18	4/20/2022	12 38	G	S				x	x		hold TCLP
SP19	4/20/2022	12 43	G	S				x	x		hold TCLP
SP20	4/20/2022	12 52	G	S				x	x		hold TCLP

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

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

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

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

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd._____ Corr'd._____		Therm ID No._____
Relinquished by: Krista Brodersen	Company: Blackstone	Date/Time: 4-20-22	Received by:	Company:	Date/Time: 4/21/22 1315
Relinquished by:	Company:	Date/Time: 4.21.2213	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 4/22/22 0900

Form No. CA-C-WI-002, Rev 4.35, dated 10/6/2020

Page 51 of 52

9/9/2022

Login Sample Receipt Checklist

Client: Blackstone Environmental, Inc

Job Number: 310-229794-1
SDG Number: 1934.16

Login Number: 229794
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-229794-2
Laboratory Sample Delivery Group: 1934.16
Client Project/Site: Tech Park

For:
Blackstone Environmental, Inc
1465 41st Street
Suite 13
Moline, Illinois 61265

Attn: Krista Broderson

Authorized for release by:
5/17/2022 12:41:36 PM

Shawn Hayes, Senior Project Manager
(319)229-8211
Shawn.Hayes@et.eurofinsus.com

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Detection Summary 5
Client Sample Results 6
Definitions 13
QC Sample Results 14
QC Association 15
Chronicle 17
Certification Summary 19
Method Summary 20
Chain of Custody 21
Receipt Checklists 26

Case Narrative

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Job ID: 310-229794-2

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-229794-2

Comments
No additional comments.

Receipt
The samples were received on 4/22/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 5.1º C.

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

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

Sample Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-229794-2	SP2	Soil	04/20/22 10:35	04/22/22 09:00
310-229794-5	SP5	Soil	04/20/22 11:56	04/22/22 09:00
310-229794-6	SP6	Soil	04/20/22 11:04	04/22/22 09:00
310-229794-8	SP8	Soil	04/20/22 11:17	04/22/22 09:00
310-229794-14	SP14	Soil	04/20/22 12:15	04/22/22 09:00
310-229794-17	SP17	Soil	04/20/22 12:32	04/22/22 09:00
310-229794-19	SP19	Soil	04/20/22 12:43	04/22/22 09:00

Detection Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP2 — Lab Sample ID: 310-229794-2

No Detections.

Client Sample ID: SP5 — Lab Sample ID: 310-229794-5

No Detections.

Client Sample ID: SP6 — Lab Sample ID: 310-229794-6

No Detections.

Client Sample ID: SP8 — Lab Sample ID: 310-229794-8

No Detections.

Client Sample ID: SP14 — Lab Sample ID: 310-229794-14

No Detections.

Client Sample ID: SP17 — Lab Sample ID: 310-229794-17

No Detections.

Client Sample ID: SP19 — Lab Sample ID: 310-229794-19

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP2
Date Collected: 04/20/22 10:35
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-2
Matrix: Soil

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/11/22 10:30	05/12/22 12:14	1

Client Sample Results

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP5
Date Collected: 04/20/22 11:56
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-5
Matrix: Soil

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/11/22 10:30	05/12/22 12:16	1

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP6
Date Collected: 04/20/22 11:04
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-6
Matrix: Soil

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/11/22 10:30	05/12/22 12:18	1

Client Sample Results

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP8
Date Collected: 04/20/22 11:17
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-8
Matrix: Soil

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/13/22 10:00	05/16/22 15:13	1

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP14
Date Collected: 04/20/22 12:15
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-14
Matrix: Soil

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/12/22 11:00	05/13/22 16:37	1

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP17
Date Collected: 04/20/22 12:32
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-17
Matrix: Soil

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/12/22 11:00	05/13/22 16:39	1

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP19
Date Collected: 04/20/22 12:43
Date Received: 04/22/22 09:00

Lab Sample ID: 310-229794-19
Matrix: Soil

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/12/22 11:00	05/13/22 16:45	1

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

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-352696/1-B
Matrix: Solid
Analysis Batch: 352895

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 352726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/11/22 10:30	05/12/22 11:58	1

Lab Sample ID: LCS 310-352696/2-B
Matrix: Solid
Analysis Batch: 352895

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 352726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	4.00	3.799		mg/L		95	80 - 120

Lab Sample ID: LB 310-352807/1-B
Matrix: Solid
Analysis Batch: 353163

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 352874

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/12/22 11:00	05/13/22 16:23	1

Lab Sample ID: LCS 310-352807/2-B
Matrix: Solid
Analysis Batch: 353163

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 352874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	4.00	3.590		mg/L		90	80 - 120

Lab Sample ID: LB 310-352961/1-B
Matrix: Solid
Analysis Batch: 353310

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 353002

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.100		0.100		mg/L		05/13/22 10:00	05/16/22 15:09	1

Lab Sample ID: LCS 310-352961/2-B
Matrix: Solid
Analysis Batch: 353310

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 353002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	4.00	3.790		mg/L		95	80 - 120

Lab Sample ID: 310-229794-8 MS
Matrix: Soil
Analysis Batch: 353310

Client Sample ID: SP8
Prep Type: TCLP
Prep Batch: 353002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	<0.100		4.00	3.773		mg/L		93	75 - 125

Metals

Leach Batch: 352696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-2	SP2	TCLP	Soil	1311	
310-229794-5	SP5	TCLP	Soil	1311	
310-229794-6	SP6	TCLP	Soil	1311	
LB 310-352696/1-B	Method Blank	TCLP	Solid	1311	
LCS 310-352696/2-B	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 352726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-2	SP2	TCLP	Soil	3010A	352696
310-229794-5	SP5	TCLP	Soil	3010A	352696
310-229794-6	SP6	TCLP	Soil	3010A	352696
LB 310-352696/1-B	Method Blank	TCLP	Solid	3010A	352696
LCS 310-352696/2-B	Lab Control Sample	TCLP	Solid	3010A	352696

Leach Batch: 352807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-14	SP14	TCLP	Soil	1311	
310-229794-17	SP17	TCLP	Soil	1311	
310-229794-19	SP19	TCLP	Soil	1311	
LB 310-352807/1-B	Method Blank	TCLP	Solid	1311	
LCS 310-352807/2-B	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 352874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-14	SP14	TCLP	Soil	3010A	352807
310-229794-17	SP17	TCLP	Soil	3010A	352807
310-229794-19	SP19	TCLP	Soil	3010A	352807
LB 310-352807/1-B	Method Blank	TCLP	Solid	3010A	352807
LCS 310-352807/2-B	Lab Control Sample	TCLP	Solid	3010A	352807

Analysis Batch: 352895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-2	SP2	TCLP	Soil	6010C	352726
310-229794-5	SP5	TCLP	Soil	6010C	352726
310-229794-6	SP6	TCLP	Soil	6010C	352726
LB 310-352696/1-B	Method Blank	TCLP	Solid	6010C	352726
LCS 310-352696/2-B	Lab Control Sample	TCLP	Solid	6010C	352726

Leach Batch: 352961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-8	SP8	TCLP	Soil	1311	
LB 310-352961/1-B	Method Blank	TCLP	Solid	1311	
LCS 310-352961/2-B	Lab Control Sample	TCLP	Solid	1311	
310-229794-8 MS	SP8	TCLP	Soil	1311	

Prep Batch: 353002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-8	SP8	TCLP	Soil	3010A	352961
LB 310-352961/1-B	Method Blank	TCLP	Solid	3010A	352961
LCS 310-352961/2-B	Lab Control Sample	TCLP	Solid	3010A	352961
310-229794-8 MS	SP8	TCLP	Soil	3010A	352961

QC Association Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Metals

Analysis Batch: 353163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-14	SP14	TCLP	Soil	6010C	352874
310-229794-17	SP17	TCLP	Soil	6010C	352874
310-229794-19	SP19	TCLP	Soil	6010C	352874
LB 310-352807/1-B	Method Blank	TCLP	Solid	6010C	352874
LCS 310-352807/2-B	Lab Control Sample	TCLP	Solid	6010C	352874

Analysis Batch: 353310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-229794-8	SP8	TCLP	Soil	6010C	353002
LB 310-352961/1-B	Method Blank	TCLP	Solid	6010C	353002
LCS 310-352961/2-B	Lab Control Sample	TCLP	Solid	6010C	353002
310-229794-8 MS	SP8	TCLP	Soil	6010C	353002

Lab Chronicle

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP2

Lab Sample ID: 310-229794-2

Date Collected: 04/20/22 10:35
Date Received: 04/22/22 09:00

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			352696	05/10/22 13:20	JTA	TAL CF
TCLP	Prep	3010A			352726	05/11/22 10:30	ACM2	TAL CF
TCLP	Analysis	6010C		1	352895	05/12/22 12:14	CTB	TAL CF

Client Sample ID: SP5

Lab Sample ID: 310-229794-5

Date Collected: 04/20/22 11:56
Date Received: 04/22/22 09:00

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			352696	05/10/22 13:20	JTA	TAL CF
TCLP	Prep	3010A			352726	05/11/22 10:30	ACM2	TAL CF
TCLP	Analysis	6010C		1	352895	05/12/22 12:16	CTB	TAL CF

Client Sample ID: SP6

Lab Sample ID: 310-229794-6

Date Collected: 04/20/22 11:04
Date Received: 04/22/22 09:00

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			352696	05/10/22 13:20	JTA	TAL CF
TCLP	Prep	3010A			352726	05/11/22 10:30	ACM2	TAL CF
TCLP	Analysis	6010C		1	352895	05/12/22 12:18	CTB	TAL CF

Client Sample ID: SP8

Lab Sample ID: 310-229794-8

Date Collected: 04/20/22 11:17
Date Received: 04/22/22 09:00

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			352961	05/12/22 14:15	JTA	TAL CF
TCLP	Prep	3010A			353002	05/13/22 10:00	ACM2	TAL CF
TCLP	Analysis	6010C		1	353310	05/16/22 15:13	CTB	TAL CF

Client Sample ID: SP14

Lab Sample ID: 310-229794-14

Date Collected: 04/20/22 12:15
Date Received: 04/22/22 09:00

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			352807	05/11/22 11:45	JTA	TAL CF
TCLP	Prep	3010A			352874	05/12/22 11:00	ACM2	TAL CF
TCLP	Analysis	6010C		1	353163	05/13/22 16:37	CTB	TAL CF

Lab Chronicle

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Client Sample ID: SP17

Lab Sample ID: 310-229794-17

Date Collected: 04/20/22 12:32

Matrix: Soil

Date Received: 04/22/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			352807	05/11/22 11:45	JTA	TAL CF
TCLP	Prep	3010A			352874	05/12/22 11:00	ACM2	TAL CF
TCLP	Analysis	6010C		1	353163	05/13/22 16:39	CTB	TAL CF

Client Sample ID: SP19

Lab Sample ID: 310-229794-19

Date Collected: 04/20/22 12:43

Matrix: Soil

Date Received: 04/22/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			352807	05/11/22 11:45	JTA	TAL CF
TCLP	Prep	3010A			352874	05/12/22 11:00	ACM2	TAL CF
TCLP	Analysis	6010C		1	353163	05/13/22 16:45	CTB	TAL CF

Laboratory References:

TAL CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-22
Georgia	State	IA100001 (OR)	09-29-22
Illinois	NELAP	200024	11-29-22
Iowa	State	007	12-01-21 *
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-22
Oregon	NELAP	IA100001	09-29-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Blackstone Environmental, Inc
Project/Site: Tech Park

Job ID: 310-229794-2
SDG: 1934.16

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
1311	TCLP Extraction	SW846	TAL CF
3010A	Preparation, Total Metals	SW846	TAL CF

Protocol References:

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

Laboratory References:

TAL CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Hayes, Shawn M.

From: Krista Brodersen <kbrodersen@blackstone-env.com>
Sent: Friday, May 6, 2022 4:42 PM
To: Hayes, Shawn M.
Subject: RE: Eurofins Environment Testing North Central, LLC EDD and report files from 310-229794-1 Tech Park

EXTERNAL EMAIL*

Thanks Shawn. We will need the following samples analyzed for TCLP lead:

SP2
SP5
SP6
SP8
SP14
SP17
SP19

Thank you,

Krista Brodersen | Senior Project Manager
Blackstone Environmental, Inc.
1465 41st Street, Suite 13 | Moline, Illinois 61265
o. 309-581-5095 c. 309.798.3487
Email | Website | LinkedIn | Facebook

BLACKSTONE ENVIRONMENTAL

From: Shawn Hayes <Shawn.Hayes@et.eurofinsus.com>
Sent: Friday, May 6, 2022 4:16 PM
To: Krista Brodersen <kbrodersen@blackstone-env.com>
Subject: Eurofins Environment Testing North Central, LLC EDD and report files from 310-229794-1 Tech Park

Hello,

Attached please find the EDD and report files for job 310-229794-1; Tech Park

Please feel free to contact me if you have any questions.

Thank you.

eurofins | Environment Testing America

310-229794 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Blackstone

City/State: CITY Moline | STATE IL | Project:

Receipt Information

Date/Time Received: DATE 4-22-22 | TIME 0900 | Received By: CC

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other._____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes ☐ No	*If yes*	Cooler ID
Multiple Coolers?	☒ Yes ☐ No CC 4-22-22	*If yes*	Cooler # 1 of 2
Cooler Custody Seals Present?	☒ Yes ☐ No	*If yes*	Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes ☒ No	*If yes*	Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes ☒ No	*If yes*	Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other._____ ☐ NONE

Thermometer ID: N | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 5.1 | Corrected Temp (°C): 5.1

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used		
Uncorrected Temp (°C)		
Corrected Temp (°C)		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Blackstone

City/State: CITY Moline | STATE IL | Project:

Receipt Information

Date/Time Received: DATE 4-22-22 | TIME 0900 | Received By: CE

Delivery Type: [x] UPS [ ] FedEx [ ] FedEx Ground [ ] US Mail [ ] Spee-Dee [ ] Lab Courier [ ] Lab Field Services [ ] Client Drop-off [ ] Other.

Condition of Cooler/Containers

Sample(s) received in Cooler?	[x] Yes [ ] No	*If yes* Cooler ID	
Multiple Coolers?	[x] Yes [ ] No	*If yes* Cooler # 2 of 2	
Cooler Custody Seals Present? No	[x] Yes [ ] No	*If yes* Cooler custody seals intact? [ ] Yes [ ] No	
Sample Custody Seals Present? No	[ ] Yes [x] No	*If yes* Sample custody seals intact? [ ] Yes [ ] No	
Trip Blank Present?	[ ] Yes [x] No	*If yes* Which VOA samples are in cooler? ↓	

Temperature Record

Coolant: [x] Wet ice [ ] Blue ice [ ] Dry ice [ ] Other. [ ] NONE

Thermometer ID: N | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.6 | Corrected Temp (°C): 0.6

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used		
Uncorrected Temp (°C)		
Corrected Temp (°C)		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? [ ] Yes [ ] No
   a) *If yes* Is there evidence that the chilling process began? [ ] Yes [ ] No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) [ ] Yes [ ] No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

TestAmerica Davenport SC
212

Chain of Custody Record

eurofins Environment Testing America

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☑ Other IOWA

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Krista Brodersen	Site Contact: KB	Date: 4-20-2022	COC No:
Blackstone Environmental	Email: kbrodersen@blackstone-env.com	Lab Contact:	Carrier:	1 of 2 COCs
1465 41st Street, Suite 13	Tel/Fax:			TALS Project #:
Moline, Illinois 61265	Analysis Turnaround Time			Sampler:
309-798-3487 Phone	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below ____			Walk-in Client:
Project Name: Tech Park	☑ 2 weeks			Lab Sampling:
Site: Tech Park	☐ 1 week			
P O # 1934.16	☐ 2 days			Job / SDG No.
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PAHs	lead	lead TCLP	Sample Specific Notes:
SP1	4/20/2022	10:20	G	S	2			x	x		hold TCLP
SP2	4/20/2022	10 35	G	S				x	x		hold TCLP
SP3	4/20/2022	10 45	G	S				x	x		hold TCLP
SP4	4/20/2022	10 56	G	S				x	x		hold TCLP
SP5	4/20/2022	11 56	G	S				x	x		hold TCLP
SP6	4/20/2022	11 04	G	S				x	x		hold TCLP
SP7	4/20/2022	11 10	G	S				x	x		hold TCLP
SP8	4/20/2022	11 17	G	S				x	x		hold TCLP
SP9	4/20/2022	~~11:30~~ 11 30	G	S				x	x		hold TCLP
SP10	4/20/2022	11 37	G	S				x	x		hold TCLP
SP11	4/20/2022	11:55	G	S				x	x		hold TCLP
SP12	4/20/2022	12 02	G	S				x	x		hold TCLP

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd. ____ Corr'd. ____	Therm ID No. ____
Relinquished by: Krista Brodersen	Company: Blackstone	Date/Time: 4-20-22 1312	Received by:	Company: FN	Date/Time: 4/21/22 1315
Relinquished by:	Company:	Date/Time: 4-21-22	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 4/21/22 0900

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

Page 24 of 26

5/11/2022

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

TestAmerica Davenport
212

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☑ Other IOWA

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	**Project Manager** Krista Brodersen	COC No:
Blackstone Environmental	Email kbrodersen@blackstone-env.com	**Site Contact: KB** — **Date: 4-20-2022** — ___1___ of __2____ COCs
1465 41st Street, Suite 13	**Tel/Fax:**	**Lab Contact:** — **Carrier** — TALS Project #:
Moline, Illinois 61265	**Analysis Turnaround Time** ☐ CALENDAR DAYS ☐ WORKING DAYS	Sampler
309-798-3487 Phone	TAT if different from Below _____	**For Lab Use Only**
(xxx) xxx-xxxx FAX	☑ 2 weeks	Walk-in Client:
Project Name: Tech Park	☐ 1 week	Lab Sampling
Site: Tech Park	☐ 2 days	Job / SDG No.
P O # 1934.16	☐ 1 day	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PAHs	lead	lead TCLP	Sample Specific Notes:
SP13	4/20/2022	12 10	G	S				x	x		hold TCLP
SP14	4/20/2022	12 15	G	S				x	x		hold TCLP
SP15	4/20/2022	12 21	G	S				x	x		hold TCLP
SP16	4/20/2022	12 28	G	S				x	x		hold TCLP
SP17	4/20/2022	12 32	G	S				x	x		hold TCLP
SP18	4/20/2022	12 38	G	S				x	x		hold TCLP
SP19	4/20/2022	12 43	G	S				x	x		hold TCLP
SP20	4/20/2022	12 52	G	S				x	x		hold TCLP

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

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

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

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

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd._____ Corr'd._____		Therm ID No._____
Relinquished by: Krista Brodersen	Company: Blackstone	Date/Time: 4-20-22	Received by:	Company:	Date/Time: 4/21/22 1315
Relinquished by:	Company:	Date/Time: 4.21.22	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 4/22/22 0900

Form No. CA-C-WI-002, Rev 4.35, dated 10/6/2020

Page 25 of 26

5/11/2022

Login Sample Receipt Checklist

Client: Blackstone Environmental, Inc

Job Number: 310-229794-2
SDG Number: 1934.16

Login Number: 229794
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	