Field Sampling Summary Report #60

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
FROM MONTGOMERY STREET TO EAST 15th STREET
BOROUGH OF MANHATTAN

NYCDDC PROJECT # SANDRESM1

Prepared for:

New York City Department of Design and Construction
Office of Environmental and Hazmat Services
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Long Island City, New York 11101

On behalf of:

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Prepared by:

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AES Project No. 0897

REVISION #2
FEBRUARY 5th, 2025

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1.0 INTRODUCTION

American Environmental Solutions, Inc. (AES) of Patchogue, New York, has been contracted by IPC Resiliency Partners (IPC) of Great Neck, New York, as their project environmental consultant to prepare a Field Sampling Summary Report (FSSR) for the New York City Department of Design and Construction (NYCDDC) East Side Coastal Resiliency project (Project No. SANDRESM1) located in Manhattan, New York. This FSSR documents field sampling activities, soil screening, sample collection and analysis.

1.1 Project Description

The project work area extends approximately 1.5 miles along Manhattan's east side waterfront from East 15th Street to Montgomery Street, between FDR Drive and the East River. The site is primarily comprised of John V. Lindsay East River Park. This work area has been designated Project Area One. Due to the size and scope of the project, work areas have been delineated into Reaches A through J. The project location is shown on Figure 1.

The East Side Coastal Resiliency (ESCR) project involves construction of flood protection measures including installation of flood walls and closure structures. Project plans include construction of an above ground floodwall, a transition retaining wall, and installation of flood gates. The scope of work also includes infrastructure improvements to mitigate risk of flood damage including reconstruction of water mains and sewers. East River Park will be elevated 9 feet and reconstructed, including existing park structures and recreational features, the amphitheater, track facility and tennis house. Proposed work also includes construction of new pedestrian bridges, street lighting and traffic work.

The infrastructure improvements will generate approximately 287,600 cubic yards (cy) of soil. Soils generated as part of the SANDRESM1 infrastructure activities will be managed as per applicable New York State Department of Environmental Conservation (NYSDEC) Part 375 Commercial Use Soil Cleanup Objectives (CSCOs) for road work areas and Restricted Residential Use SCOs (RRSCOs) for parkland and any additional specifications required by the DDC.

The excavation for infrastructure improvements will range from 4 feet to approximately 40 feet below grade (ftbg).

2.0 FIELD ACTIVITIES

AES performed soil sampling at the site on January 23rd & 24th, 2025. A total of ten soil samples were collected. Soil samples were collected from borings advanced in the work areas. A description of soil samples collected is shown below:

- Samples BH-116 through BH-119 were collected from borings advanced to 15 feet below grade (ftbg) surface in Ballfields 7 & 8 areas to be excavated for bulkhead construction.

- The samples identified as DEP-115A through DEP-115E and DEP-123 were collected from borings advanced to 20 ftbg in Ballfields 7 & 8 areas to be excavated for sewer installation

Soil boring locations are shown on Figure 2. Site photographs are included in Attachment I. Soil boring logs are included in Appendix A.

2.1 Soil Sampling and Analysis

Soil samples were field screened using a photoionization detector (PID) and readings were recorded on boring logs**.** All PID readings collected during the field sampling events were 0.0 parts per million (ppm). One grab sample and one composite soil sample were collected from each sampling location and submitted for laboratory analysis.

Soil samples were placed into laboratory supplied sample jars and properly labeled. The soil samples were stored in a cooler with ice to preserve the samples at approximately 4° Celsius prior to and during sample shipment. A chain-of-custody was prepared prior to sample shipment

Soil samples were delivered in coolers to Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut (NYSDOH ELAP # 11301) for analysis. All soil samples collected were analyzed for the following parameters:

- 40 CFR Part 261, Subpart C (Characteristics of Hazardous Waste)
- Ignitability (Method 1010);
- Corrosivity (Method 9045C);
- Reactivity (Chapter 7.3.2);
- Toxicity Characteristic Leaching Procedure (TCLP) VOC (Method 1311/8260);
- TCLP SVOC (Method 1311/8270);
- TCLP Pesticides (Method 1311/8081) (if required by the selected disposal facility);
- TCLP Herbicides (Method 1311/8151A);
- TCLP Metals (Method 1311/6010B/7470A);

- Polychlorinated biphenyls (PCBs) (Method 8082);
- Pesticides (Method 8081);
- Total Petroleum Hydrocarbons (TPH) (Method 8015);
- Extractable Petroleum Hydrocarbons (EPH);
- Target Analyte List Metals (TAL) (Method 6010);
- Target Compound List (TCL) VOCS (Method 8260) and SVOCS (Method 8270)

Laboratory analysis is included in Appendix B.

2.2 Analytical Results

Analytical laboratory results indicated all samples collected contained compounds in concentrations exceeding the NYSDEC Part 375 Commercial Soil Cleanup Objectives (CSCOs) and two samples (BH-117 and DEP-115B) contained concentrations of lead exceeding the RCRA Hazardous Waste Characteristic Regulatory Level. Compound exceedances are shown on Tables 1 and 2.

Comments:

- Analytical results compared to applicable criteria are presented in Tables 1 and 2. All ten soil samples collected exhibited exceedances of CSCOs. Exceedances of CSCOs are highlighted in yellow on Table 1. Material exceeding CSCOs should not be reused as backfill on-site and should be transported off-site for disposal at a permitted disposal facility.

- The TCLP Lead result exceeded the RCRA Hazardous Waste Characteristic Regulatory Level of 5 milligrams per liter (mg/L) in soil samples BH-117 at a concentration of 8.33 mg/L and DEP-115B at a concentration of 5.2 mg/L. TCLP results are summarized in Table 2.

3.0 CONCLUSIONS AND RECOMMENDATIONS

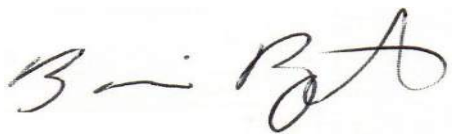
Based on review and evaluation of analytical data and field screening, the following findings, conclusions and recommendations are presented:

- Laboratory analytical results indicated soil samples BH-117 and DEP-115B exhibited evidence of hazardous waste characteristics for toxicity as discussed above and identified in Table 2. Upon commencement of the infrastructure improvement activities, the material should be properly disposed of at a USEPA approved RCRA-Part B TSDF facility. TCLP lead concentrations detected in soil samples may be attributed to the presence of historic fill material in the subsurface.

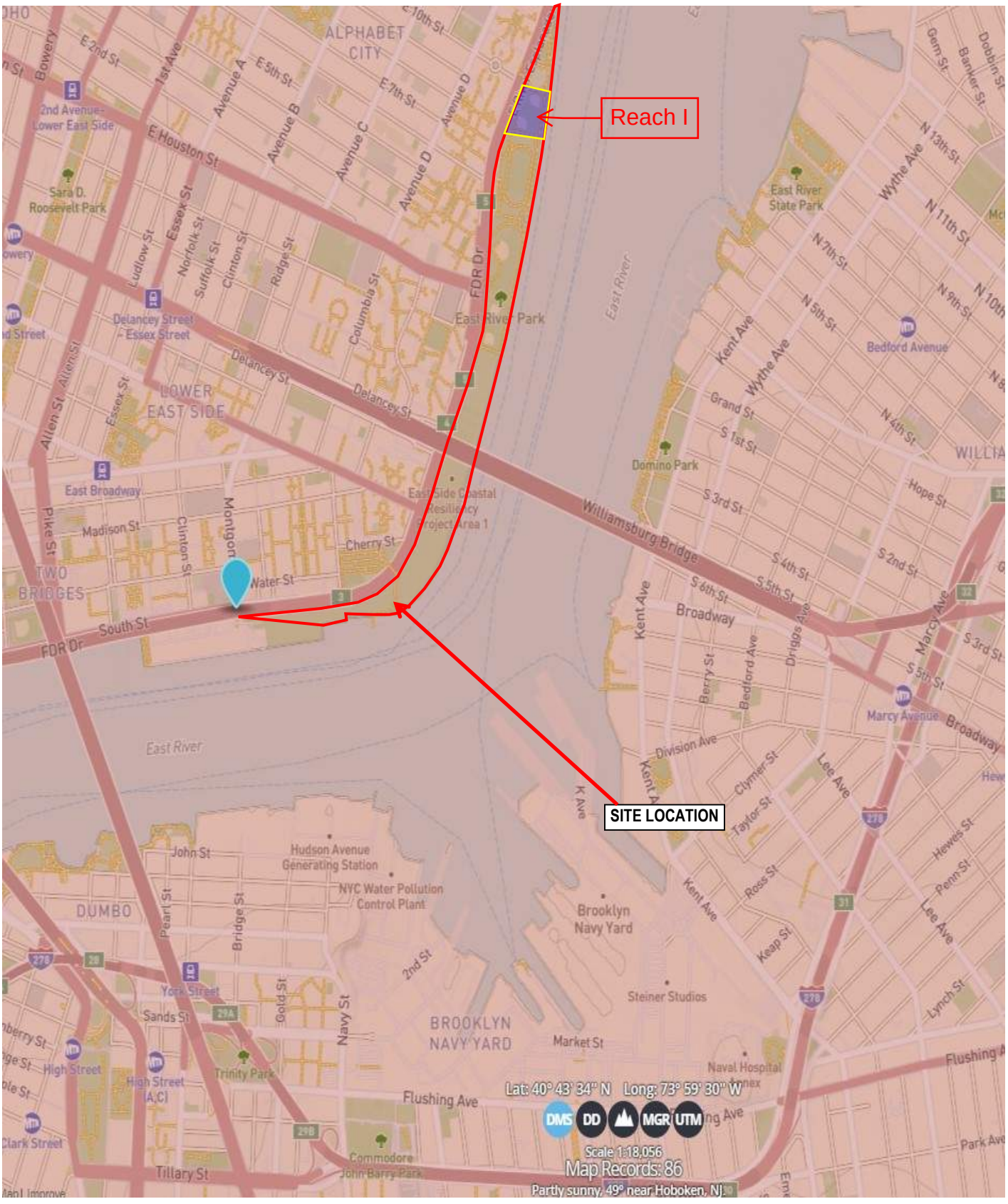
- Contamination was found in all soil samples collected as shown on Tables 1 and 2. Material exceeding CSCOs should not be used as backfill on-site and should be transported to a licensed, permitted facility for disposal pursuant to federal, state and local regulations. Non-native material such as historic fill should be transported off-site for disposal pursuant to Federal, State and local regulations.

- The soil analytical results should be presented to disposal facilities for classification and acceptance in accordance with the individual permit requirements and State and Federal regulations.

Report prepared by:

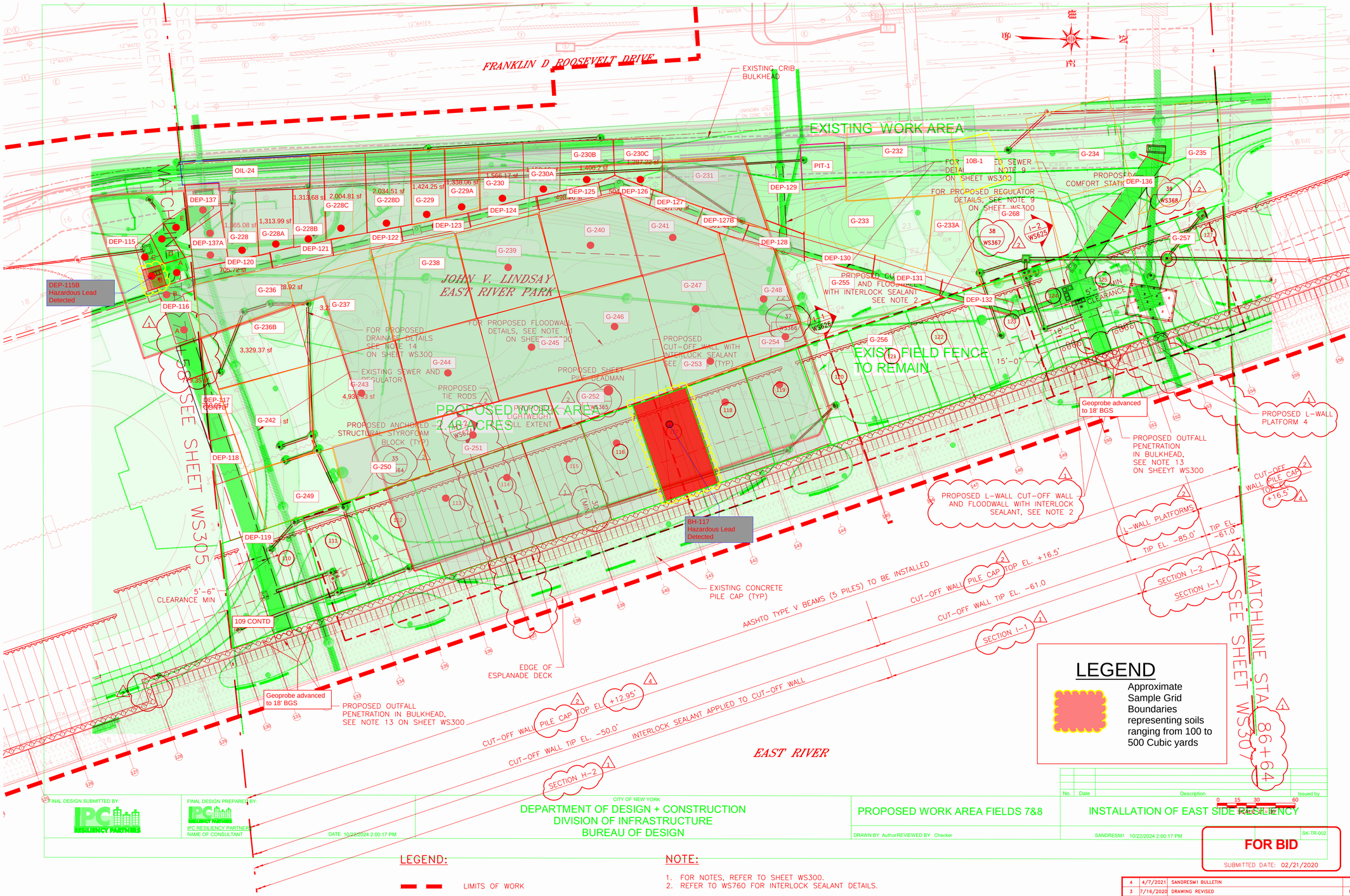


Brian Pendergast
Environmental Project Manager



Site Location Map **East Side Coastal Resiliency** **From Montgomery Street to 15th Street** **New York, NY**	AES Project No. 0897 Field Sampling Summary Report NTS Not to Scale	**Figure 1** **American Environmental Solutions, Inc.**

DRAFT MASS MAILING #2 SUBMISSION 9/19/19



LEGEND

Approximate Sample Grid Boundaries representing soils ranging from 100 to 500 Cubic yards

LEGEND:

- LIMITS OF WORK
- PROPOSED COMB. SEWER

NOTE:

1. FOR NOTES, REFER TO SHEET WS300.
2. REFER TO WS760 FOR INTERLOCK SEALANT DETAILS.

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

NO.	DATE	DESCRIPTIONS	BY	APPR'D
		REVISIONS		
4	4/7/2021	SANDRESM1 BULLETIN	JM	DF
3	7/16/2020	DRAWING REVISED	MKS	DF
2	6/26/2020	DRAWING REVISED	BP	DF
1	5/28/2020	DRAWING REVISED	JM	DF

FINAL DESIGN SUBMITTED BY: IPC RESILIENCY PARTNERS

FINAL DESIGN PREPARED BY: IPC RESILIENCY PARTNERS — IPC RESILIENCY PARTNERS, NAME OF CONSULTANT — DATE 10/22/2024 2:00:17 PM

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

PROPOSED WORK AREA FIELDS 7&8

DRAWN BY Author REVIEWED BY Checker

No.	Date	Description	Issued by

INSTALLATION OF EAST SIDE RESILIENCY

SANDRESM1 10/22/2024 2:00:17 PM

0 15 30 60

SK-TR-002

FOR BID

SUBMITTED DATE: 02/21/2020

FINAL DESIGN SUBMITTED BY: AKRF KSE — The AKRF-KSE JV

FINAL DESIGN PREPARED BY: ch2m: — CH2M HILL NEW YORK, INC., NAME OF CONSULTANT — SIGNATURE — DATE

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WATERFRONT STRUCTURAL PLAN
SEGMENT 3 – REACH I
STA. 77+58 – 86+64

CH2M DRAWN BY — SANDRESM1-WS306-04.DWG CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 9/19/19 — SHEET 732 OF 2791 — WS306

CONSULTANT DESIGN

TABLES

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS
TABLE 1: SUMMARY OF SOIL ANALYSIS - SAMPLES COLLECTED 1/23-1/24/2025

Parameter	Compounds Detected	Unit	NYSDEC Part 375 Commercial Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives	BH-116	BH-117	BH-118	BH-119	DEP-123	DEP-115A	DEP-115B	DEP-115C	DEP-115D	DEP-115E
PCBs	None detected	ppm	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides	4,4-DDD	ppm	92	13	ND	ND	0.011	0.028	ND	ND	ND	ND	ND	ND
	4,4-DDE	ppm	62	8.9	ND	ND	0.018	0.054	ND	ND	0.0067	ND	0.024	0.011
	4,4-DDT	ppm	47	7.9	0.0047	ND	0.045	0.065	ND	ND	ND	ND	0.03	0.014
TAL Metals	Aluminum	ppm	NS	NS	8830	4970	5620	6500	7960	9040	8630	4180	8310	5900
	Antimony	ppm	NS	NS	ND	ND	ND	ND	ND	ND	5.8	ND	ND	ND
	Arsenic	ppm	16	16	3.54	5.94	7.16	10.1	3.44	3.15	**33.9**	2.58	4.24	5.93
	Barium	ppm	400	400	321	**558**	190	275	50.6	159	**839**	97.4	120	150
	Beryllium	ppm	590	72	.57	ND	.35	.35	.49	.39	.65	ND	.41	.33
	Cadmium	ppm	9.3	4.3	1.02	.69	.71	1.04	ND	ND	2.54	ND	.39	.57
	Calcium	ppm	NS	NS	11,500	56,900	35,80	10,900	3,510	29,900	6690	91,800	2860	9650
	Chromium	ppm	1500	180	25.7	12.2	17.7	26.7	23.2	14.9	59.4	8.22	18.1	13.7
	Hexvalent Chromium	ppm	400	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trivalent Chromium	ppm	1500	180	25.7	12.2	17.7	26.7	23.2	14.9	59.4	8.22	18.1	13.7
	Cobalt	ppm	NS	NS	10.1	4.26	6.32	6.76	9.31	6.06	8.96	3.38	6.23	6.04
	Copper	ppm	270	270	46.1	63.8	86.7	98.7	14.9	16.5	268	29.5	38.2	56.9
	Iron	ppm	NS	NS	24,600	7,340	17,100	37,600	11,900	10,900	30,500	8,480	14,500	13,300
	Lead	ppm	1000	400	323	**5050**	260	339	75.9	145	**1100**	133	212	327
	Manganese	ppm	10,000	2000	426	263	241	276	124	259	222	178	305	229
	Magnesium	ppm	NS	NS	8,390	6280	5720	4210	2930	25,200	5310	6350	5920	2920
	Mercury	ppm	2.8	0.81	0.58	.75	**1.42**	**4.95**	.13	.36	**4.47**	**.83**	**.88**	**1.13**
	Nickel	ppm	310	310	17.6	19.6	16.6	16.9	18.2	34.1	35.9	11.9	18.7	16.7
	Silver	ppm	1500	180	ND	ND	ND	ND	ND	ND	9.24	ND	ND	ND
	Sodium	ppm	NS	NS	347	841	296	788	366	731	5270	239	304	763
	Potassium	ppm	NS	NS	1410	851	1140	1770	984	1030	2320	998	1230	1340
	Vanadium	ppm	NS	NS	37.9	17.3	23.3	22.2	25.1	19.2	40.3	19.8	24.8	22
	Zinc	ppm	10,000	10,000	282	444	209	461	78.2	95.6	932	87.3	134	209
Semi-Volatile Organic Compounds	1,1-Biphenyl	ppm	NS	NS	ND	ND	ND	ND	ND	ND	6	ND	.26	ND
	2-Methylnapthalene	ppm	NS	NS	ND	.33	ND	ND	ND	ND	69	.33	.73	.32
	3+4-Methylphenol (m&p) cresol	ppm	500	100	ND	ND	ND	ND	ND	ND	.71	ND	ND	ND
	Acenapthene	ppm	500	100	.4	.72	.51	.43	.91	.97	36	.95	2.9	1.4
	Acenapthylene	ppm	500	100	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND
	Anthracene	ppm	500	100	1.1	1.8	.32	.63	1.9	3	32	1.8	6.1	2.3
	Benz(a)anthracene	ppm	5.6	1	**3.7**	**3.7**	.92	**1.1**	**3.2**	**7.8**	**22**	**2.7**	**9.9**	**4.6**
	Benzo(a)pyrene	ppm	1	1	**4.1**	**3.6**	**1.3**	**1.2**	**3.5**	**8**	**18**	**2.3**	**7.6**	**5.3**
	Benzo(b)fluoranthene	ppm	5.6	1	**5.1**	**4.4**	**1.4**	**1.3**	**4**	**9.4**	**15**	**2.5**	**11**	**6.4**
	Benzo(ghi)perylene	ppm	500	100	2	1.8	.82	.8	2.2	4.8	5.7	1.1	4.5	3.1
	Benzo(k)fluoranthene	ppm	56	3.9	1.6	1.4	.44	.47	1.3	3.2	**4.7**	.86	3.7	2
	Benzyl butyl phthalate	ppm	NS	NS	ND	ND	ND	ND	ND	ND	.51	ND	ND	ND
	Carbazole	ppm	NS	NS	ND	.79	ND	ND	ND	.41	.92	ND	2.4	.49
	Chrysene	ppm	56	3.9	3.3	3.4	.85	.95	3	**7**	**20**	2.3	**8.4**	**4.3**
	Dibenz(a,h)anthracene	ppm	0.56	.33	**.46**	**.45**	.2	.19	**.45**	**1.1**	**1.9**	.29	**1.3**	**.65**
	Dibenzofuran	ppm	NS	NS	ND	.57	ND	ND	.53	.34	2.8	ND	2.5	.81
	Fluoranthene	ppm	500	100	6.7	7.2	1.8	2.1	7.2	13	34	6.7	19	9.7
	Fluorene	ppm	500	100	.36	.81	ND	.33	.89	.89	24	.67	3.9	1.1
	Indeno(1,2,3-cd)pyrene	ppm	5.6	0.5	**2**	**1.8**	**.77**	**.71**	**2**	**4.6**	**5.5**	**1.1**	**4.7**	**3**
	Napthalene	ppm	500	100	.33	.69	ND	.3	.44	.37	44	.61	1.1	.54
	Phenanthrene	ppm	500	100	4.2	6.9	.8	1.8	6.9	7.1	96	3.9	24	8.7
	Pyrene	ppm	500	100	6.4	6.9	2	2	6.5	13	51	6.8	15	8.5
Cyanide	Cyanide	ppm	27	27	ND	ND	1.55	1.38	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds	1,2,4-Trimethylbenzene	ppm	190	52	ND	ND	0.038	0.021	ND	ND	7.2	0.012	ND	ND
	1,3,5-Trimethylbenzene	ppm	190	52	ND	ND	0.011	0.0091	ND	ND	2.6	ND	ND	ND
	p-Isopropyltoluene	ppm	NS	NS	ND	ND	ND	0.023	ND	ND	1.9	ND	ND	ND
	sec-butylbenzene	ppm	500	100	ND	ND	ND	ND	ND	ND	ND	0.0081	ND	ND
	Acetone	ppm	500	100	ND	ND	0.24	ND	ND	ND	ND	0.058	ND	ND
	Ethylbenzene	ppm	390	41	ND	ND	ND	0.0069	ND	ND	2.3	ND	ND	ND
	Isopropylbenzene	ppm	NS	NS	ND	ND	ND	ND	ND	ND	1	ND	ND	ND
	m&p-xylene	ppm	500	100	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND
	Methyl ethyl ketone	ppm	500	100	ND	ND	0.058	ND	ND	ND	ND	ND	ND	ND
	Carbon Disulfide	ppm	NS	NS	ND	ND	0.011	ND	ND	ND	ND	ND	ND	ND
	o-xylene	ppm	500	100	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND
	Total xlyenes	ppm	500	100	ND	ND	ND	ND	ND	ND	4.3	ND	ND	ND
EPH	>C28-C40	ppm	NS	NS	ND	ND	180	ND	170	ND	71	110	330	ND
	C9-C28	ppm	NS	NS	ND	ND	320	120	140	ND	280	ND	160	110
	Total EPH	ppm	NS	NS	ND	ND	500	120	310	ND	351	110	490	110
TPH	DRO	ppm	NS	NS	480	ND	ND	76	ND	ND	2500	ND	ND	ND
	GRO	ppm	NS	NS	ND	ND	ND	7.3	ND	ND	100	17	ND	ND

Notes:

ND Not detected
NS No regulatory criteria available
Green highlighted concentrations exceed NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives
Yellow highlighted concentrations exceed NYSDEC Part 375 Restricted Residential and Commerical Soil Cleanup Objeictives

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EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS
TABLE 2: SUMMARY OF TCLP & RCRA ANALYSIS - SAMPLES COLLECTED 1/23/25 - 1/24/25

Parameter	Compounds Detected	Unit	Regulatory Criteria	BH-116	BH-117	BH-118	BH-119	DEP-123	DEP-115A	DEP-115B	DEP-115C	DEP-115D	DEP-115E
RCRA Characteristics	pH	pH units	<2 or >12.5	8.15	8.24	8.13	7.83	8.24	8.57	8.52	8.61	9.51	8.16
	Flashpoint	° F	>200° F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F	>200°F
	Ignitability	° F	<140° F	passed	passed	passed	passed	passed	passed	passed	passed	passed	passed
	Reactivity - Cyanide	ppm	_	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXICITY		**Unit**	**USEPA Toxicity Characteristic Regulatory Criteria**	**BH-116**	**BH-117**	**BH-118**	**BH-119**	**DEP-123**	**DEP-115A**	**DEP-115B**	**DEP-115C**	**DEP-115D**	**DEP-115E**
TCLP Metals	Barium	mg/L	100	0.6	0.75	2.68	0.55	0.44	2.88	0.39	0.56	0.62	0.74
	Lead	mg/L	5	0.1	**8.33**	0.11	0.34	1.72	1.16	**5.2**	0.57	0.4	ND
TCLP VOCs	None Detected	_	_	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected	_	_	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Pests/Herbicides	None Detected	_	_	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NS No regulatory criteria available
ND Not detected
Yellow highlighted concentrations and boring locations exceed hazardous waste regulatory criteria.

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS
TABLE 3: REUSE/DISPOSAL OPTIONS - 1/23-1/24/25/24 SAMPLING EVENT

Locations Meeting RRUSCOs & CUSCOs (suitable for reuse as backfill in parkland and roadwork) *	**Locations Exceeding RRUSCOs (suitable for reuse as backfill in road work areas but not parkland) ***	**Locations Exceeding RRUSCOS & CUSCOs (disposal off-site required)**
		BH-116 BH-117** BH-118 BH-119 DEP-123 DEP-115A DEP-115B** DEP-115C DEP-115D DEP-115E

* Material meeting these criteria may be suitable for use as backfill on site if the material does not contain evidence of historic fill or exhibit odors or staining.

**Hazardous material was encountered at boring locations BH-117 and DEP-115B

ATTACHMENT I
SITE PHOTOGRAPHS

Soil boring DEP-115B (haz location), collected 1/24/25

Soil boring DEP-115C, collected 1/24/25

Soil boring DEP-115D, collected 1/24/25

Soil boring DEP-115E, collected 1/24/25

Soil boring BH-116, collected 1/23/25

Soil boring BH-117, (haz location), collected 1/23/25

Soil boring BH-118, collected 1/23/25

Soil boring BH-119, collected 1/23/25

Soil boring DEP-123, collected 1/23/25

Soil boring DEP-115A, collected 1/24/25

APPENDIX A

BORING LOGS

AES, Inc.

SOIL BORING LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	BH-116
AGENCY:	NYCDDC	PROPOSED BORING DEPTH	15'
DRILLER:	ADT	BORING DATE	1/23/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	11:00
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	Bulkhead locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Brown sandy soil	
					Red brick	
			30"		Black cinders, dark brown sandy loam	
10						
				0.0	Wet black sand, gravel, rock	
					Brown sand, crushed brick, gravel	
13			26"		Refusal encountered, 13'	

GENERAL COMMENTS

VOC grab @ 10'	TIME SAMPLE COLLECTED:	11:30 AM

AES, Inc.

SOIL BORING LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	BH-117
AGENCY:	NYCDDC	PROPOSED BORING DEPTH	15'
DRILLER:	ADT	BORING DATE	1/23/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	11:35
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	Bulkhead locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Dark brown soil, red brick	
					Bluestone, gray and black gravel	
			25"			
10						
				0.1	Wet black sand, red brick, rock	
					Gray gravel	
			40"			
15						

GENERAL COMMENTS

VOC grab @ 10'	TIME SAMPLE COLLECTED:	12:00 PM

AES, Inc.

SOIL BORING LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	BH-118
AGENCY:	NYCDDC	PROPOSED BORING DEPTH:	15'
DRILLER:	ADT	BORING DATE	1/23/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	12:05
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	Bulkhead locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Black fill material, gray ash and cinders	
					Brown sandy loam	
8			35"		Refusal at 8 ftbg	

GENERAL COMMENTS

VOC grab @ 5'

TIME SAMPLE COLLECTED:	12:15 PM

AES, Inc.

SOIL BORING LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	BH-119
AGENCY:	NYCDDC	PROPOSED BORING DEPTH	15'
DRILLER:	ADT	BORING DATE	1/23/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	12:20
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	Bulkhead locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Dark brown sandy loam, red brick	
					Brown sandy loam, dark brown cinders	
			26"			
10						
				0.1	Black wet fill material, cinders and gravel	
					Black and dark brown sandy loam	
13			35"		Refusal at 13 ftbg	

GENERAL COMMENTS

VOC grab @ 13'

TIME SAMPLE COLLECTED: 12:35 PM

AES, Inc.

SOIL BORING LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-123
AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'
DRILLER:	ADT	BORING DATE	1/23/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	1:10
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	DEP sewer locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Slightly wet dark brown sandy loam	
					Red brick, black cinders	
			40"		Light brown sandy loam	
					Red brick, dark brown loam	
10						
11					Refusal encountered, no recovery	

GENERAL COMMENTS

VOC grab @ 6'	TIME SAMPLE COLLECTED:	1:30 PM

AES, Inc.

SOIL BORING LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-115A
AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'
DRILLER:	ADT	BORING DATE	1/24/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	8:35
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	DEP sewer locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Bluestone gravel, red brick, brown wet sand	
					Brown, wet sandy loam	
			32"		Black gravel, some crushed red brick, brown wet sand	
					Dark brown wet sandy loam	
10						
				0.0	Wet black loam mixed with crushed brick and gravel	
					Crushed brick and gravel	
			25"			
14"					Refusal at 14 ftbg	

GENERAL COMMENTS

VOC grab @ 10'	TIME SAMPLE COLLECTED:	8:45 AM

AES, Inc.

SOIL BORING LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-115B
AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'
DRILLER:	ADT	BORING DATE	1/24/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	9:00
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	DEP sewer locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Bluestone gravel, red brick, crushed gravel	
					Wet dark gray gravel	
			16"			
10						
				0.0	Wet gray gravel and red brick	
			29"			
14"						
				0.0	Red crushed brick and gravel	
					Wet black sand loam	
			33"			
20						

GENERAL COMMENTS

VOC grab @ 20'	TIME SAMPLE COLLECTED:	9:30 AM

AES, Inc.

SOIL BORING LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-115C
AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'
DRILLER:	ADT	BORING DATE	1/24/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	9:30
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	DEP sewer locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Bluestone gravel, crushed red brick, gravel	
					Trace amount brown sandy loam	
			16"			
10						
				0.0	Wet gravel and crushed brick	
					Black and gray sand	
			20"		Black sandy loam	
14"						
				0.0	Black sandy loam, rock and gravel	
					Refusal at 16.5'	
			12"			

GENERAL COMMENTS

VOC grab @ 20'	TIME SAMPLE COLLECTED:	9:45 AM

AES, Inc.

SOIL BORING LOG

		CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-115D
		AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'
		DRILLER:	ADT	BORING DATE	1/24/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	10:00
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	DEP sewer locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Light brown sandy loam	
					Crushed gravel	
			18"			
9					Refusal at 9 ftbg	

GENERAL COMMENTS

VOC grab @ 9'
Limited recovery and small sample volume

TIME SAMPLE COLLECTED:	10:10 AM

AES, Inc.

SOIL BORING LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	DEP-115E
AGENCY:	NYCDDC	PROPOSED BORING DEPTH	20'
DRILLER:	ADT	BORING DATE	1/24/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	10:15
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Eileen Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	DEP sewer locations in Ballfields 7 & 8			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe 6610				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
					Hand cleared to 5 ftbg	
5						
				0.0	Wet black gravel and brick	
			18"			
10						
13			0"		Refusal at 13 ftbg	

GENERAL COMMENTS

VOC grab @ 10'	TIME SAMPLE COLLECTED:	10:35 AM

APPENDIX B

LABORATORY ANALYSIS

Wednesday, February 05, 2025

Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Project ID: EAST SIDE COASTAL RESILIENCY
SDG ID: GCS51748
Sample ID#s: CS51748 - CS51757

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

February 05, 2025

SDG I.D.: GCS51748

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Sample Id Cross Reference

February 05, 2025

SDG I.D.: GCS51748

Project ID: EAST SIDE COASTAL RESILIENCY

Client Id	Lab Id	Matrix	Col Date
BH-116	CS51748	SOIL	01/23/25 11:30
BH-117	CS51749	SOIL	01/23/25 12:00
BH-118	CS51750	SOIL	01/23/25 12:15
BH-119	CS51751	SOIL	01/23/25 12:30
DEP-123	CS51752	SOIL	01/23/25 13:00
DEP-115A	CS51753	SOIL	01/24/25 8:45
DEP-115B	CS51754	SOIL	01/24/25 9:30
DEP-115C	CS51755	SOIL	01/24/25 9:45
DEP-115D	CS51756	SOIL	01/24/25 10:10
DEP-115E	CS51757	SOIL	01/24/25 10:35

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/23/25	11:30
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51748

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-116

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	8830	62	mg/Kg	10	01/28/25	TH	SW6010D
Arsenic	3.54	0.82	mg/Kg	1	01/28/25	TH	SW6010D
Barium	321	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.57	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Boron	6.2	1.6	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	11500	6.2	mg/Kg	1	01/28/25	TH	SW6010D
Cadmium	1.02	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	10.1	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	25.7	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Copper	46.1	0.8	mg/kg	1	01/28/25	TH	SW6010D
Iron	24600	62	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	0.58	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	1410	62	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	8390	62	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	426	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	347	6.2	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	17.6	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Lead	323	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	01/28/25	TH	SW6010D
Tin	12.5	6.2	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.60	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-116

Phoenix I.D.: CS51748

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.7	3.7	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	37.9	0.41	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	282	0.8	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	79		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	27	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	0.08	0.05	mg/L	1	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	9.56	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	78	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.47	0.47	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	2200	170	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.15	1.00	pH Units	1	01/27/25 21:40	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	170		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.63	0.63	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	4.9	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	6.33	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	ND	100	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	ND	200	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	ND	100	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	Interference		%	10	01/29/25	JRB	40 - 140 %	

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-116

Phoenix I.D.: CS51748

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	57		%	10	01/29/25	JRB	40 - 140 %
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	7.2	mg/Kg	50	01/28/25	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	98		%	50	01/28/25	V	70 - 130 %
Chlorinated Herbicides							
2,4,5-T	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	310	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	3100	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	310	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	310	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	87		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	84	ug/Kg	2	01/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	74		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	77		%	2	01/28/25	SC	30 - 150 %
% TCMX	75		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	75		%	2	01/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.5	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	ND	2.5	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	4.7	2.5	ug/Kg	2	01/30/25	AW	SW8081B
a-BHC	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
a-Chlordane	ND	4.2	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	01/30/25	AW	SW8081B
b-BHC	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	42	ug/Kg	2	01/30/25	AW	SW8081B
d-BHC	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-116

Phoenix I.D.: CS51748

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Endrin	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B	
Endrin aldehyde	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B	
Endrin ketone	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B	
g-BHC	ND	1.7	ug/Kg	2	01/30/25	AW	SW8081B	
g-Chlordane	ND	4.2	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	8.4	ug/Kg	2	01/30/25	AW	SW8081B	
Methoxychlor	ND	42	ug/Kg	2	01/30/25	AW	SW8081B	
Toxaphene	ND	170	ug/Kg	2	01/30/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	75		%	2	01/30/25	AW	30 - 150 %	
% DCBP (Confirmation)	71		%	2	01/30/25	AW	30 - 150 %	
% TCMX	82		%	2	01/30/25	AW	30 - 150 %	
% TCMX (Confirmation)	70		%	2	01/30/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/29/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/29/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	66		%	10	01/29/25	JRB	30 - 150 %	
% DCAA (Confirmation)	63		%	10	01/29/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	84		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	72		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	61		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	64		%	10	01/30/25	AW	30 - 150 %	

Ver 1

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	480	310	mg/Kg	5	01/29/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	40	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	40	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	48	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	16	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	6.4	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	40	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	8.0	ug/kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	99		%	1	01/28/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	100	ug/kg	1	01/28/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	8.0	ug/Kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	99		%	1	01/28/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane (10x)	101		%	10	01/28/25	MH	70 - 130 %	
% Toluene-d8 (10x)	99		%	10	01/28/25	MH	70 - 130 %	
Volatile Library Search	Completed				01/29/25	JLI		

Semivolatiles

1,1-Biphenyl	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	670	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chlorophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitroaniline	ND	670	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitrophenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	500	ug/Kg	1	01/28/25	MR	SW8270E	
3-Nitroaniline	ND	670	ug/Kg	1	01/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	1	01/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	420	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloroaniline	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitroaniline	ND	670	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitrophenol	ND	1200	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthene	400	290	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthylene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Acetophenone	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Anthracene	1100	290	ug/Kg	1	01/28/25	MR	SW8270E	
Atrazine	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benz(a)anthracene	3700	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzaldehyde	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(a)pyrene	4100	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(b)fluoranthene	5100	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(ghi)perylene	2000	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(k)fluoranthene	1600	290	ug/Kg	1	01/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	420	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Caprolactam	ND	290	ug/Kg	1	01/28/25	MR	SW8270E	
Carbazole	ND	420	ug/Kg	1	01/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	3300	290	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	460	210	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	840	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	6700	290	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	360	290	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	2000	290	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	330	290	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	420	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	210	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	420	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	420	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	4200	290	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	290	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	6400	290	ug/Kg	1	01/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	71		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	60		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	70		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	66		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	58		%	1	01/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	78		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	66		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	58		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	70		%	1	01/30/25	MR	30 - 130 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Phenol-d5	54		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	76		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

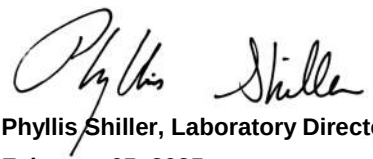
Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/23/25	12:00
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51749

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-117

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	4970	5.7	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	5.94	0.77	mg/Kg	1	01/28/25	TH	SW6010D
Barium	558	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	< 0.31	0.31	mg/Kg	1	01/28/25	TH	SW6010D
Boron	8.1	1.5	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	56900	57	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	0.69	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	4.26	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	12.2	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Copper	63.8	0.8	mg/kg	1	01/28/25	TH	SW6010D
Iron	7340	5.7	mg/Kg	1	01/28/25	TH	SW6010D
Mercury	0.75	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	851	57	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	6280	57	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	263	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	841	5.7	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	19.6	0.38	mg/Kg	1	01/28/25	TH	SW6010D
Lead	5050	3.8	mg/Kg	10	01/28/25	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	01/28/25	TH	SW6010D
Tin	11.4	5.7	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.75	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-117

Phoenix I.D.: CS51749

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	8.33	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.4	3.4	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	17.3	0.38	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	444	0.8	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	86		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	33	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	0.08	0.05	mg/L	1	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	7.43	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	150	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.43	0.43	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	660	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.24	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	79.8		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.58	0.58	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	2.7	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	4.81	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	ND	46	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	ND	91	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	ND	46	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	79		%	5	01/29/25	JRB	40 - 140 %	

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-117

Phoenix I.D.: CS51749

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	96		%	5	01/29/25	JRB	40 - 140 %
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	5.7	mg/Kg	50	01/28/25	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	95		%	50	01/28/25	V	70 - 130 %
Chlorinated Herbicides							
2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	81		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	79		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	74		%	2	01/28/25	SC	30 - 150 %
% TCMX	73		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	73		%	2	01/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	01/30/25	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-117

Phoenix I.D.: CS51749

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Endrin	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Endrin aldehyde	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Endrin ketone	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
g-BHC	ND	1.5	ug/Kg	2	01/30/25	AW	SW8081B	
g-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Methoxychlor	ND	38	ug/Kg	2	01/30/25	AW	SW8081B	
Toxaphene	ND	150	ug/Kg	2	01/30/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	93		%	2	01/30/25	AW	30 - 150 %	
% DCBP (Confirmation)	68		%	2	01/30/25	AW	30 - 150 %	
% TCMX	74		%	2	01/30/25	AW	30 - 150 %	
% TCMX (Confirmation)	69		%	2	01/30/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/29/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/29/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	61		%	10	01/29/25	JRB	30 - 150 %	
% DCAA (Confirmation)	60		%	10	01/29/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	82		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	76		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	64		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	70		%	10	01/30/25	AW	30 - 150 %	

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-117

Phoenix I.D.: CS51749

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	01/29/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	99		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	90		%	5	01/29/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	24	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	24	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	48	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	29	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	9.7	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	3.9	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	24	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-117

Phoenix I.D.: CS51749

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	102		%	1	01/28/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	72	ug/kg	1	01/28/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	4.8	ug/Kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	102		%	1	01/28/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	01/28/25	MH	70 - 130 %

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-117

Phoenix I.D.: CS51749

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane (10x)	100		%	10	01/28/25	MH	70 - 130 %	
% Toluene-d8 (10x)	101		%	10	01/28/25	MH	70 - 130 %	
Volatile Library Search	Completed				01/29/25	JLI		
Semivolatiles								
1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylnaphthalene	330	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	01/28/25	MR	SW8270E	
3-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthene	720	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acetophenone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Anthracene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E	
Atrazine	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benz(a)anthracene	3700	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(a)pyrene	3600	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(b)fluoranthene	4400	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(ghi)perylene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(k)fluoranthene	1400	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Caprolactam	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Carbazole	790	380	ug/Kg	1	01/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	3400	270	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	450	190	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	570	270	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	770	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	7200	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	810	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	690	270	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	6900	270	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	6900	270	ug/Kg	1	01/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	99		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	81		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	71		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	81		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	79		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	73		%	1	01/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	57		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	68		%	1	01/30/25	MR	30 - 130 %

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-117

Phoenix I.D.: CS51749

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Phenol-d5	52		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	78		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/23/25	12:15
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51750

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-118

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.70	0.70	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	5620	5.6	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	7.16	0.74	mg/Kg	1	01/28/25	TH	SW6010D
Barium	190	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.35	0.30	mg/Kg	1	01/28/25	TH	SW6010D
Boron	4.7	1.5	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	35800	56	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	0.71	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.32	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	17.7	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Copper	86.7	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	17100	56	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	1.42	0.74	mg/Kg	50	01/28/25	ZT	SW7471B
Potassium	1140	56	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	5720	5.6	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	241	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	296	5.6	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	16.6	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Lead	260	0.37	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	01/28/25	TH	SW6010D
Tin	21.6	5.6	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	2.68	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-118

Phoenix I.D.: CS51750

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	0.11	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.4	3.4	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	23.3	0.37	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	209	0.7	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	85		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	50	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	0.50	0.05	mg/L	1	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	8.84	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	120	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.44	0.44	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	5200	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.13	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	155		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	1.55	0.59	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	2.5	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	7.23	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	180	47	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	320	93	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	500	47	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	111		%	5	01/29/25	JRB	40 - 140 %	

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-118

Phoenix I.D.: CS51750

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	137		%	5	01/29/25	JRB	40 - 140 %
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	6.9	mg/Kg	50	01/28/25	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	99		%	50	01/28/25	V	70 - 130 %
Chlorinated Herbicides							
2,4,5-T	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	69		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	70		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	77		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	80		%	2	01/28/25	SC	30 - 150 %
% TCMX	73		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	78		%	2	01/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	11	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDE	18	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDT	45	2.3	ug/Kg	2	01/29/25	AW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	01/29/25	AW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B

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Endrin	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
Endrin aldehyde	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
Endrin ketone	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
g-BHC	ND	1.6	ug/Kg	2	01/29/25	AW	SW8081B	
g-Chlordane	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B	
Heptachlor	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
Heptachlor epoxide	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
Methoxychlor	ND	39	ug/Kg	2	01/29/25	AW	SW8081B	
Toxaphene	ND	160	ug/Kg	2	01/29/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	76		%	2	01/29/25	AW	30 - 150 %	
% DCBP (Confirmation)	96		%	2	01/29/25	AW	30 - 150 %	
% TCMX	67		%	2	01/29/25	AW	30 - 150 %	
% TCMX (Confirmation)	91		%	2	01/29/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/29/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/29/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	75		%	10	01/29/25	JRB	30 - 150 %	
% DCAA (Confirmation)	60		%	10	01/29/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	78		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	70		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	57		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	64		%	10	01/30/25	AW	30 - 150 %	

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TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	01/29/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	149		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,2-Dibromoethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,2-Dichloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
2-Hexanone	ND	31	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	31	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	240 S	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	11	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	380	ug/kg	50	01/29/25	JLI	SW8260D
m&p-Xylene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	58	37	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	5.0	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	31	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D

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Styrene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	6.2	ug/kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	96		%	1	01/28/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	01/29/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	01/29/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	94		%	50	01/29/25	JLI	70 - 130 %
% Toluene-d8 (50x)	98		%	50	01/29/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	94	ug/kg	1	01/28/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	38	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	11	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	6.2	ug/Kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	96		%	1	01/28/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260

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Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	01/28/25	MH	70 - 130 %	
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %	
% Dibromofluoromethane (10x)	98		%	10	01/28/25	MH	70 - 130 %	
% Toluene-d8 (10x)	99		%	10	01/28/25	MH	70 - 130 %	
Volatile Library Search	Completed				01/29/25	JLI		
Semivolatiles								
1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	01/28/25	MR	SW8270E	
3-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthene	510	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acetophenone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Anthracene	320	270	ug/Kg	1	01/28/25	MR	SW8270E	
Atrazine	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benz(a)anthracene	920	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(a)pyrene	1300	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(b)fluoranthene	1400	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(ghi)perylene	820	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(k)fluoranthene	440	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	

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Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Caprolactam	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Carbazole	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Chrysene	850	270	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	200	190	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	770	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	770	270	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	800	270	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	2000	270	ug/Kg	1	01/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	78		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	59		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	73		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	69		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	59		%	1	01/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-118

Phoenix I.D.: CS51750

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol	77		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	69		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	60		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	72		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	56		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	77		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

S - Laboratory solvent, contamination is possible.

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/23/25	12:30
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51751

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-119

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.70	0.70	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	6500	5.0	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	10.1	0.67	mg/Kg	1	01/28/25	TH	SW6010D
Barium	275	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.35	0.27	mg/Kg	1	01/28/25	TH	SW6010D
Boron	10.0	1.3	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	10900	50	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	1.04	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.76	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	26.7	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Copper	98.7	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	37600	50	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	4.95	0.69	mg/Kg	50	01/28/25	ZT	SW7471B
Potassium	1770	50	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	4210	5.0	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	276	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	788	5.0	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	16.9	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Lead	339	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	01/28/25	TH	SW6010D
Tin	220	50	mg/Kg	10	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.55	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-119

Phoenix I.D.: CS51751

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	0.34	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.0	3.0	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	22.2	0.33	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	461	0.7	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	88		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	44	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	< 0.10	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	8.88	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	180	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.41	0.41	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	3200	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	7.83	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	192		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	1.38	0.57	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	3.5	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	5.78	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	ND	45	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	120	90	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	120	45	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	110		%	5	01/29/25	JRB	40 - 140 %	

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-119

Phoenix I.D.: CS51751

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	78		%	5	01/29/25	JRB	40 - 140 %
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	7.3	7.0	mg/Kg	50	01/28/25	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	99		%	50	01/28/25	V	70 - 130 %
Chlorinated Herbicides							
2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	68		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	71		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	76	ug/Kg	2	01/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	83		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	70		%	2	01/28/25	SC	30 - 150 %
% TCMX	75		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	66		%	2	01/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	28	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDE	54	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDT	65	2.3	ug/Kg	2	01/29/25	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
a-Chlordane	ND	10	ug/Kg	2	01/29/25	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	01/29/25	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	01/29/25	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B

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Client ID: BH-119

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Endrin	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B	
Endrin aldehyde	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B	
Endrin ketone	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B	
g-BHC	ND	1.5	ug/Kg	2	01/29/25	AW	SW8081B	
g-Chlordane	ND	10	ug/Kg	2	01/29/25	AW	SW8081B	
Heptachlor	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B	
Heptachlor epoxide	ND	7.6	ug/Kg	2	01/29/25	AW	SW8081B	
Methoxychlor	ND	38	ug/Kg	2	01/29/25	AW	SW8081B	
Toxaphene	ND	150	ug/Kg	2	01/29/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	78		%	2	01/29/25	AW	30 - 150 %	
% DCBP (Confirmation)	85		%	2	01/29/25	AW	30 - 150 %	
% TCMX	57		%	2	01/29/25	AW	30 - 150 %	
% TCMX (Confirmation)	71		%	2	01/29/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/29/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/29/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	61		%	10	01/29/25	JRB	30 - 150 %	
% DCAA (Confirmation)	59		%	10	01/29/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	33		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	29		%	10	01/30/25	AW	30 - 150 %	3
%TCMX (Surrogate Rec)	43		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	46		%	10	01/30/25	AW	30 - 150 %	

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-119

Phoenix I.D.: CS51751

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	76	56	mg/Kg	1	01/29/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	75		%	1	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	61		%	1	01/29/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	30	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	30	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	6.9	6.0	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	36	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	4.8	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	30	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-119

Phoenix I.D.: CS51751

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	6.0	ug/kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	97		%	1	01/28/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	90	ug/kg	1	01/28/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	21	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	9.1	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	23	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	6.0	ug/Kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	97		%	1	01/28/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	01/28/25	MH	70 - 130 %

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: BH-119

Phoenix I.D.: CS51751

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane (10x)	100		%	10	01/28/25	MH	70 - 130 %	
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %	
Volatile Library Search	Completed				01/29/25	JLI		
Semivolatiles								
1,1-Biphenyl	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	600	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitroaniline	ND	600	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	450	ug/Kg	1	01/28/25	MR	SW8270E	
3-Nitroaniline	ND	600	ug/Kg	1	01/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitroaniline	ND	600	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthene	430	260	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthylene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Acetophenone	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Anthracene	630	260	ug/Kg	1	01/28/25	MR	SW8270E	
Atrazine	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benz(a)anthracene	1100	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzaldehyde	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(a)pyrene	1200	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(b)fluoranthene	1300	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(ghi)perylene	800	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(k)fluoranthene	470	260	ug/Kg	1	01/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Caprolactam	ND	260	ug/Kg	1	01/28/25	MR	SW8270E	
Carbazole	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	950	260	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	190	190	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	750	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	2100	260	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	330	260	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	710	260	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	300	260	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	1800	260	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	2000	260	ug/Kg	1	01/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	84		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	61		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	72		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	69		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	63		%	1	01/28/25	MR	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	69		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	58		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	70		%	1	01/30/25	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Phenol-d5	53		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	75		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/23/25	13:00
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51752

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-123

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	7960	53	mg/Kg	10	01/28/25	TH	SW6010D
Arsenic	3.44	0.71	mg/Kg	1	01/28/25	TH	SW6010D
Barium	50.6	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.49	0.28	mg/Kg	1	01/28/25	TH	SW6010D
Boron	4.2	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	3510	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	9.31	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	23.2	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Copper	14.9	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	11900	53	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	0.13	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	984	53	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	2930	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	124	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	366	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	18.2	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Lead	75.9	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Tin	6.7	5.3	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.44	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-123

Phoenix I.D.: CS51752

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	1.72	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.2	3.2	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	25.1	0.35	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	78.2	0.7	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	86		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	55	10	mg/L	1	01/30/25	NP	SM5220D	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.42	0.42	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	580	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.24	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	229		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.58	0.58	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	1.4	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	4.76	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	170	46	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	140	92	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	310	46	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	55		%	5	01/29/25	JRB	40 - 140 %	
% Terphenyl (surr)	81		%	5	01/29/25	JRB	40 - 140 %	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	7.0	mg/Kg	50	01/28/25	V	SW8015D GRO	

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-123

Phoenix I.D.: CS51752

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	75		%	50	01/28/25	V	70 - 130 %
Chlorinated Herbicides							
2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	81		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	79		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	89		%	2	01/28/25	SC	30 - 150 %
% TCMX	73		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	83		%	2	01/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	01/30/25	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	01/30/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
g-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Methoxychlor	ND	38	ug/Kg	2	01/30/25	AW	SW8081B	
Toxaphene	ND	150	ug/Kg	2	01/30/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	82		%	2	01/30/25	AW	30 - 150 %	
% DCBP (Confirmation)	70		%	2	01/30/25	AW	30 - 150 %	
% TCMX	66		%	2	01/30/25	AW	30 - 150 %	
% TCMX (Confirmation)	68		%	2	01/30/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	61		%	10	01/30/25	JRB	30 - 150 %	
% DCAA (Confirmation)	60		%	10	01/30/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	78		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	71		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	54		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	58		%	10	01/30/25	AW	30 - 150 %	
TPH DRO (C10-C28)								
Diesel Range Organics (C10-C28)	ND	290	mg/Kg	5	01/29/25	JRB	SW8015D DRO	
QA/QC Surrogates								
% COD (surr)	70		%	5	01/29/25	JRB	50 - 150 %	
% Terphenyl (surr)	90		%	5	01/29/25	JRB	50 - 150 %	

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	28	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	28	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	34	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	4.5	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	28	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Styrene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	5.6	ug/kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	100		%	1	01/28/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	85	ug/kg	1	01/28/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	5.6	ug/Kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	100		%	1	01/28/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	99		%	10	01/28/25	MH	70 - 130 %
Volatile Library Search	Completed				01/29/25	JLI	

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-123

Phoenix I.D.: CS51752

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles								
1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	01/28/25	MR	SW8270E	
3-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitroaniline	ND	620	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthene	910	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acetophenone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Anthracene	1900	270	ug/Kg	1	01/28/25	MR	SW8270E	
Atrazine	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benz(a)anthracene	3200	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(a)pyrene	3500	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(b)fluoranthene	4000	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(ghi)perylene	2200	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(k)fluoranthene	1300	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Caprolactam	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Carbazole	710	380	ug/Kg	1	01/28/25	MR	SW8270E	
Chrysene	3000	270	ug/Kg	1	01/28/25	MR	SW8270E	
Dibenz(a,h)anthracene	450	190	ug/Kg	1	01/28/25	MR	SW8270E	
Dibenzofuran	530	270	ug/Kg	1	01/28/25	MR	SW8270E	
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	770	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	7200	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	890	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	2000	270	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	440	270	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	6900	270	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	6500	270	ug/Kg	1	01/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	99		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	77		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	69		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	79		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	77		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	70		%	1	01/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	75		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	64		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	71		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	55		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	79		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/24/25	8:45
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51753

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	9040	63	mg/Kg	10	01/28/25	TH	SW6010D
Arsenic	3.15	0.84	mg/Kg	1	01/28/25	TH	SW6010D
Barium	159	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.39	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Boron	32.6	1.7	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	29900	63	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	< 0.42	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.06	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	14.9	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Copper	16.5	0.8	mg/kg	1	01/28/25	TH	SW6010D
Iron	10900	63	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	0.36	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	1030	63	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	25200	63	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	259	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	731	6.3	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	34.1	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Lead	145	0.42	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	01/28/25	TH	SW6010D
Tin	< 6.3	6.3	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	2.88	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115A

Phoenix I.D.: CS51753

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	1.16	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.8	3.8	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	19.2	0.42	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	95.6	0.8	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	83		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	87	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	< 0.10	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	4.0	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	9.40	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	530	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.46	0.46	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	1700	170	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.57	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	-116		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.60	0.60	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	2.6	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	6.72	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	ND	96	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	ND	190	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	ND	96	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	Interference		%	10	01/29/25	JRB	40 - 140 %	

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	69		%	10	01/29/25	JRB	40 - 140 %
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	9.2	mg/Kg	50	01/28/25	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	78		%	50	01/28/25	V	70 - 130 %
Chlorinated Herbicides							
2,4,5-T	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	300	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	3000	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	300	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	300	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	76		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	77		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	79	ug/Kg	2	01/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	79		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	94		%	2	01/28/25	SC	30 - 150 %
% TCMX	72		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	66		%	2	01/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.4	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDE	ND	2.4	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDT	ND	2.4	ug/Kg	2	01/29/25	AW	SW8081B
a-BHC	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
a-Chlordane	ND	4.0	ug/Kg	2	01/29/25	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	01/29/25	AW	SW8081B
b-BHC	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	01/29/25	AW	SW8081B
d-BHC	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Endrin	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B	
Endrin aldehyde	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B	
Endrin ketone	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B	
g-BHC	ND	1.6	ug/Kg	2	01/29/25	AW	SW8081B	
g-Chlordane	ND	4.0	ug/Kg	2	01/29/25	AW	SW8081B	
Heptachlor	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B	
Heptachlor epoxide	ND	7.9	ug/Kg	2	01/29/25	AW	SW8081B	
Methoxychlor	ND	40	ug/Kg	2	01/29/25	AW	SW8081B	
Toxaphene	ND	160	ug/Kg	2	01/29/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	93		%	2	01/29/25	AW	30 - 150 %	
% DCBP (Confirmation)	85		%	2	01/29/25	AW	30 - 150 %	
% TCMX	61		%	2	01/29/25	AW	30 - 150 %	
% TCMX (Confirmation)	89		%	2	01/29/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	61		%	10	01/30/25	JRB	30 - 150 %	
% DCAA (Confirmation)	60		%	10	01/30/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	75		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	67		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	66		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	69		%	10	01/30/25	AW	30 - 150 %	

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115A

Phoenix I.D.: CS51753

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	300	mg/Kg	5	01/29/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	76		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	64		%	5	01/29/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	17	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	17	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	34	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	21	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.9	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	2.7	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	17	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	3.4	ug/kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	01/28/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	52	ug/kg	1	01/28/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	3.4	ug/Kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	01/28/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	96		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane (10x)	102		%	10	01/28/25	MH	70 - 130 %	
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %	
Volatile Library Search	Completed				01/29/25	JLI		
Semivolatiles								
1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dinitrophenol	ND	630	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Methylnaphthalene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Nitroaniline	ND	630	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E	1
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	01/28/25	KCA	SW8270E	
3-Nitroaniline	ND	630	ug/Kg	1	01/28/25	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Nitroaniline	ND	630	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E	
Acenaphthene	970	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Acetophenone	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Anthracene	3000	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Atrazine	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benz(a)anthracene	7800	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(a)pyrene	8000	1400	ug/Kg	5	01/29/25	KCA	SW8270E	
Benzo(b)fluoranthene	9400	1400	ug/Kg	5	01/29/25	KCA	SW8270E	
Benzo(ghi)perylene	4800	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(k)fluoranthene	3200	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Caprolactam	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Carbazole	410	390	ug/Kg	1	01/28/25	KCA	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	7000	270	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenz(a,h)anthracene	1100	200	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenzofuran	340	270	ug/Kg	1	01/28/25	KCA	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-butylphthalate	ND	780	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Fluoranthene	13000	1400	ug/Kg	5	01/29/25	KCA	SW8270E
Fluorene	890	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	4600	270	ug/Kg	1	01/28/25	KCA	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Naphthalene	370	270	ug/Kg	1	01/28/25	KCA	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	01/28/25	KCA	SW8270E
Phenanthrene	7100	270	ug/Kg	1	01/28/25	KCA	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Pyrene	13000	1400	ug/Kg	5	01/29/25	KCA	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	81		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorophenol	62		%	1	01/28/25	KCA	30 - 130 %
% Nitrobenzene-d5	76		%	1	01/28/25	KCA	30 - 130 %
% Phenol-d5	73		%	1	01/28/25	KCA	30 - 130 %
% Terphenyl-d14	67		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl (5x)	69		%	5	01/29/25	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	82		%	5	01/29/25	KCA	30 - 130 %
% Terphenyl-d14 (5x)	45		%	5	01/29/25	KCA	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	69		%	1	01/30/25	MR	15 - 110 %

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115A

Phoenix I.D.: CS51753

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	61		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	52		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	56		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	45		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	65		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/24/25	9:30
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51754

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	9.24	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	8630	8.4	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	33.9	1.1	mg/Kg	1	01/28/25	TH	SW6010D
Barium	839	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.65	0.45	mg/Kg	1	01/28/25	TH	SW6010D
Boron	17.2	2.3	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	6690	8.4	mg/Kg	1	01/28/25	TH	SW6010D
Cadmium	2.54	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	8.96	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	59.4	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Copper	268	1.1	mg/kg	1	01/28/25	TH	SW6010D
Iron	30500	84	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	4.47	0.42	mg/Kg	20	01/28/25	ZT	SW7471B
Potassium	2320	84	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	5310	8.4	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	222	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	5270	8.4	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	35.9	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Lead	1100	0.56	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	5.8	5.6	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 2.3	2.3	mg/Kg	1	01/28/25	TH	SW6010D
Tin	135	8.4	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.39	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

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Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115B

Phoenix I.D.: CS51754

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	5.20	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 5.1	5.1	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	40.3	0.56	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	932	1.1	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	57		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	286	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	3.60	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	6.3	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	8.74	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	1200	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.64	0.64	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	1000	240	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.52	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 8	8	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	81.0	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	-266		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.88	0.88	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	11.1	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	5.74	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	71	23	mg/kg	1	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	280	45	mg/kg	1	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	351	23	mg/kg	1	01/29/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	56		%	1	01/29/25	JRB	40 - 140 %	

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Client ID: DEP-115B

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	78		%	1	01/29/25	JRB	40 - 140 %
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	100	30	mg/Kg	100	01/29/25	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	105		%	100	01/29/25	V	70 - 130 %
Chlorinated Herbicides							
2,4,5-T	ND	220	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	220	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	440	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	4400	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	220	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	220	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	440	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	440	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	38		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	79		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1221	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1232	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1242	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1248	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1254	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1260	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1262	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
PCB-1268	ND	100	ug/Kg	2	01/29/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	102		%	2	01/29/25	SC	30 - 150 %
% DCBP (Confirmation)	79		%	2	01/29/25	SC	30 - 150 %
% TCMX	75		%	2	01/29/25	SC	30 - 150 %
% TCMX (Confirmation)	77		%	2	01/29/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	6.7	3.5	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
a-BHC	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
a-Chlordane	ND	5.8	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
b-BHC	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	58	ug/Kg	2	01/30/25	AW	SW8081B
d-BHC	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	12	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	12	ug/Kg	2	01/30/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Endrin	ND	12	ug/Kg	2	01/30/25	AW	SW8081B	
Endrin aldehyde	ND	12	ug/Kg	2	01/30/25	AW	SW8081B	
Endrin ketone	ND	12	ug/Kg	2	01/30/25	AW	SW8081B	
g-BHC	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B	
g-Chlordane	ND	5.8	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor	ND	12	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	12	ug/Kg	2	01/30/25	AW	SW8081B	
Methoxychlor	ND	58	ug/Kg	2	01/30/25	AW	SW8081B	
Toxaphene	ND	230	ug/Kg	2	01/30/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	66		%	2	01/30/25	AW	30 - 150 %	
% DCBP (Confirmation)	49		%	2	01/30/25	AW	30 - 150 %	
% TCMX	84		%	2	01/30/25	AW	30 - 150 %	
% TCMX (Confirmation)	34		%	2	01/30/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	65		%	10	01/30/25	JRB	30 - 150 %	
% DCAA (Confirmation)	64		%	10	01/30/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	80		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	73		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	68		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	73		%	10	01/30/25	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	2500	630	mg/Kg	5	01/29/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	65		%	5	01/29/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	680	ug/kg	50	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	270	ug/kg	50	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	330	ug/kg	50	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	20	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
2-Hexanone	ND	3700	ug/kg	50	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	3700	ug/kg	50	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	50	01/28/25	JLI	SW8260D
Benzene	ND	60	ug/kg	50	01/28/25	JLI	SW8260D
Bromochloromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Bromoform	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Bromomethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Chlorobenzene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Chloroethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Chloroform	ND	370	ug/kg	50	01/28/25	JLI	SW8260D
Chloromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	250	ug/kg	50	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Cyclohexane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Ethylbenzene	2300	750	ug/kg	50	01/28/25	JLI	SW8260D
Isopropylbenzene	1000	750	ug/kg	50	01/28/25	JLI	SW8260D
m&p-Xylene	2500	250	ug/kg	50	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	120	ug/kg	50	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	930	ug/kg	50	01/28/25	JLI	SW8260D
Methylacetate	ND	600	ug/kg	50	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Methylene chloride	ND	50	ug/kg	50	01/28/25	JLI	SW8260D
o-Xylene	1800	250	ug/kg	50	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Toluene	ND	700	ug/kg	50	01/28/25	JLI	SW8260D
Total Xylenes	4300	250	ug/kg	50	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	190	ug/kg	50	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Trichloroethene	ND	470	ug/kg	50	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	750	ug/kg	50	01/28/25	JLI	SW8260D
Vinyl chloride	ND	20	ug/kg	50	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	103		%	50	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	01/28/25	JLI	70 - 130 %
% Toluene-d8 (50x)	103		%	50	01/28/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	100	ug/kg	50	01/28/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	7200	750	ug/Kg	50	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	2600	750	ug/Kg	50	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
p-Isopropyltoluene	1900	750	ug/Kg	50	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	750	ug/Kg	50	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	103		%	50	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	01/28/25	JLI	70 - 130 %
% Toluene-d8 (50x)	103		%	50	01/28/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	01/28/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane (10x)	101		%	10	01/28/25	MH	70 - 130 %	
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %	
Volatile Library Search	Completed				01/29/25	JLI		
Semivolatiles								
1,1-Biphenyl	6000	410	ug/Kg	1	01/28/25	KCA	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4,5-Trichlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dichlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dimethylphenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dinitrophenol	ND	930	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dinitrotoluene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2,6-Dinitrotoluene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Chloronaphthalene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Chlorophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Methylnaphthalene	69000	4100	ug/Kg	10	01/29/25	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Nitroaniline	ND	930	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Nitrophenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	710	580	ug/Kg	1	01/28/25	KCA	SW8270E	1
3,3'-Dichlorobenzidine	ND	700	ug/Kg	1	01/28/25	KCA	SW8270E	
3-Nitroaniline	ND	930	ug/Kg	1	01/28/25	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1700	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chloroaniline	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Nitroaniline	ND	930	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Nitrophenol	ND	1700	ug/Kg	1	01/28/25	KCA	SW8270E	
Acenaphthene	36000	4100	ug/Kg	10	01/29/25	KCA	SW8270E	
Acenaphthylene	6900	410	ug/Kg	1	01/28/25	KCA	SW8270E	
Acetophenone	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
Anthracene	32000	4100	ug/Kg	10	01/29/25	KCA	SW8270E	
Atrazine	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
Benz(a)anthracene	22000	4100	ug/Kg	10	01/29/25	KCA	SW8270E	
Benzaldehyde	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(a)pyrene	18000	4100	ug/Kg	10	01/29/25	KCA	SW8270E	
Benzo(b)fluoranthene	15000	4100	ug/Kg	10	01/29/25	KCA	SW8270E	
Benzo(ghi)perylene	5700	410	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(k)fluoranthene	4700	410	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzyl butyl phthalate	510	410	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	450	ug/Kg	1	01/28/25	KCA	SW8270E	
Caprolactam	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E	
Carbazole	920	580	ug/Kg	1	01/28/25	KCA	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	20000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Dibenz(a,h)anthracene	1900	290	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenzofuran	2800	410	ug/Kg	1	01/28/25	KCA	SW8270E
Diethyl phthalate	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Dimethylphthalate	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-butylphthalate	ND	1200	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-octylphthalate	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Fluoranthene	34000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Fluorene	24000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Hexachlorobenzene	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobutadiene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachloroethane	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	5500	410	ug/Kg	1	01/28/25	KCA	SW8270E
Isophorone	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
Naphthalene	44000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Nitrobenzene	ND	410	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E
Pentachlorophenol	ND	580	ug/Kg	1	01/28/25	KCA	SW8270E
Phenanthrene	96000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
Phenol	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E
Pyrene	51000	4100	ug/Kg	10	01/29/25	KCA	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	97		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	58		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorophenol	55		%	1	01/28/25	KCA	30 - 130 %
% Nitrobenzene-d5	75		%	1	01/28/25	KCA	30 - 130 %
% Phenol-d5	65		%	1	01/28/25	KCA	30 - 130 %
% Terphenyl-d14	67		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl (10x)	69		%	10	01/29/25	KCA	30 - 130 %
% Nitrobenzene-d5 (10x)	80		%	10	01/29/25	KCA	30 - 130 %
% Terphenyl-d14 (10x)	51		%	10	01/29/25	KCA	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	79		%	1	01/30/25	MR	15 - 110 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	65		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	55		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	71		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	53		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	72		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

GRO diluted run
Elevated reporting limits for GRO due to the presence of target and/or non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/24/25	9:45
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51755

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	4180	6.1	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	2.58	0.82	mg/Kg	1	01/28/25	TH	SW6010D
Barium	97.4	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	< 0.33	0.33	mg/Kg	1	01/28/25	TH	SW6010D
Boron	2.7	1.6	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	91800	61	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	< 0.41	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	3.38	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	8.22	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Copper	29.5	0.8	mg/kg	1	01/28/25	TH	SW6010D
Iron	8480	6.1	mg/Kg	1	01/28/25	TH	SW6010D
Mercury	0.83	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	998	61	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	6350	61	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	178	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	239	6.1	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	11.9	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Lead	133	0.41	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	01/28/25	TH	SW6010D
Tin	7.0	6.1	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.56	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115C

Phoenix I.D.: CS51755

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	0.57	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.7	3.7	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	19.8	0.41	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	87.3	0.8	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	85		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	89	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	0.44	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	3.9	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	10.21	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM Total Solids	1100	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.44	0.44	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	5600	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.61	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 5	5	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	118		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	4.3	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	5.73	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	110	93	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	ND	190	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	110	93	mg/kg	10	01/29/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	41		%	10	01/29/25	JRB	40 - 140 %	

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115C

Phoenix I.D.: CS51755

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	47		%	10	01/29/25	JRB	40 - 140 %
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	17	7.8	mg/Kg	50	01/28/25	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	106		%	50	01/28/25	V	70 - 130 %
Chlorinated Herbicides							
2,4,5-T	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	66		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	65		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	78	ug/Kg	2	01/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	84		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	85		%	2	01/28/25	SC	30 - 150 %
% TCMX	71		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	77		%	2	01/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	01/29/25	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	01/29/25	AW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
a-Chlordane	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	01/29/25	AW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Endrin	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
Endrin aldehyde	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
Endrin ketone	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
g-BHC	ND	1.6	ug/Kg	2	01/29/25	AW	SW8081B	
g-Chlordane	ND	3.9	ug/Kg	2	01/29/25	AW	SW8081B	
Heptachlor	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
Heptachlor epoxide	ND	7.8	ug/Kg	2	01/29/25	AW	SW8081B	
Methoxychlor	ND	39	ug/Kg	2	01/29/25	AW	SW8081B	
Toxaphene	ND	160	ug/Kg	2	01/29/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	104		%	2	01/29/25	AW	30 - 150 %	
% DCBP (Confirmation)	114		%	2	01/29/25	AW	30 - 150 %	
% TCMX	69		%	2	01/29/25	AW	30 - 150 %	
% TCMX (Confirmation)	92		%	2	01/29/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	61		%	10	01/30/25	JRB	30 - 150 %	
% DCAA (Confirmation)	61		%	10	01/30/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	77		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	69		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	56		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	62		%	10	01/30/25	AW	30 - 150 %	

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115C

Phoenix I.D.: CS51755

Parameter	Result		RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH DRO (C10-C28)								
Diesel Range Organics (C10-C28)	ND		290	mg/Kg	5	01/30/25	JRB	SW8015D DRO
QA/QC Surrogates								
% COD (surr)	61			%	5	01/30/25	JRB	50 - 150 %
% Terphenyl (surr)	51			%	5	01/30/25	JRB	50 - 150 %
Volatiles (TCL)								
1,1,1-Trichloroethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND		390	ug/kg	50	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,1-Dichloroethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,1-Dichloroethene	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND		390	ug/kg	50	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND		390	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND		390	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,2-Dichlorobenzene	ND		390	ug/kg	50	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,2-Dichloropropane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
1,3-Dichlorobenzene	ND		390	ug/kg	50	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND		390	ug/kg	50	01/28/25	JLI	SW8260D
2-Hexanone	ND		33	ug/kg	1	01/29/25	JLI	SW8260D
4-Methyl-2-pentanone	ND		33	ug/kg	1	01/29/25	JLI	SW8260D
Acetone	58	S	50	ug/kg	1	01/29/25	JLI	SW8260D
Benzene	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Bromochloromethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Bromodichloromethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Bromoform	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Bromomethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Carbon Disulfide	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Carbon tetrachloride	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Chlorobenzene	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Chloroethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Chloroform	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Chloromethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Cyclohexane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Dibromochloromethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Dichlorodifluoromethane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Ethylbenzene	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Isopropylbenzene	ND		390	ug/kg	50	01/28/25	JLI	SW8260D
m&p-Xylene	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Methyl ethyl ketone	ND		39	ug/kg	1	01/29/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND		13	ug/kg	1	01/29/25	JLI	SW8260D
Methylacetate	ND		5.2	ug/kg	1	01/29/25	JLI	SW8260D
Methylcyclohexane	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D
Methylene chloride	ND		33	ug/kg	1	01/29/25	JLI	SW8260D
o-Xylene	ND		6.5	ug/kg	1	01/29/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Tetrachloroethene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Toluene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Total Xylenes	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Trichloroethene	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Trichlorofluoromethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
Vinyl chloride	ND	6.5	ug/kg	1	01/29/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	01/29/25	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	01/29/25	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	01/29/25	JLI	70 - 130 %
% Toluene-d8	89		%	1	01/29/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	101		%	50	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	94		%	50	01/28/25	JLI	70 - 130 %
% Toluene-d8 (50x)	102		%	50	01/28/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	98	ug/kg	1	01/29/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
1,2,4-Trimethylbenzene	12	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
1,3-Dichloropropane	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
n-Butylbenzene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
n-Propylbenzene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
p-Isopropyltoluene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
sec-Butylbenzene	8.1	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
tert-Butylbenzene	ND	6.5	ug/Kg	1	01/29/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	01/29/25	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	01/29/25	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	01/29/25	JLI	70 - 130 %
% Toluene-d8	89		%	1	01/29/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	01/28/25	MH	70 - 130 %	
% Bromofluorobenzene (10x)	97		%	10	01/28/25	MH	70 - 130 %	
% Dibromofluoromethane (10x)	101		%	10	01/28/25	MH	70 - 130 %	
% Toluene-d8 (10x)	99		%	10	01/28/25	MH	70 - 130 %	
Volatile Library Search	Completed				01/30/25	JLI		
Semivolatiles								
1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	630	ug/Kg	1	01/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylnaphthalene	330	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitroaniline	ND	630	ug/Kg	1	01/28/25	MR	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	01/28/25	MR	SW8270E	
3-Nitroaniline	ND	630	ug/Kg	1	01/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitroaniline	ND	630	ug/Kg	1	01/28/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthene	950	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Acetophenone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Anthracene	1800	270	ug/Kg	1	01/28/25	MR	SW8270E	
Atrazine	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benz(a)anthracene	2700	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(a)pyrene	2300	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(b)fluoranthene	2500	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(ghi)perylene	1100	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzo(k)fluoranthene	860	270	ug/Kg	1	01/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Caprolactam	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Carbazole	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Chrysene	2300	270	ug/Kg	1	01/28/25	MR	SW8270E
Dibenz(a,h)anthracene	290	200	ug/Kg	1	01/28/25	MR	SW8270E
Dibenzofuran	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-butylphthalate	ND	780	ug/Kg	1	01/28/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluoranthene	6700	270	ug/Kg	1	01/28/25	MR	SW8270E
Fluorene	670	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	1100	270	ug/Kg	1	01/28/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Naphthalene	610	270	ug/Kg	1	01/28/25	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	01/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	01/28/25	MR	SW8270E
Phenanthrene	3900	270	ug/Kg	1	01/28/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	MR	SW8270E
Pyrene	6800	270	ug/Kg	1	01/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	86		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	01/28/25	MR	30 - 130 %
% 2-Fluorophenol	64		%	1	01/28/25	MR	30 - 130 %
% Nitrobenzene-d5	74		%	1	01/28/25	MR	30 - 130 %
% Phenol-d5	72		%	1	01/28/25	MR	30 - 130 %
% Terphenyl-d14	67		%	1	01/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115C

Phoenix I.D.: CS51755

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol	88		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	70		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	57		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	77		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	55		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	77		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/24/25	10:10
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51756

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	8310	51	mg/Kg	10	01/28/25	TH	SW6010D
Arsenic	4.24	0.69	mg/Kg	1	01/28/25	TH	SW6010D
Barium	120	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.41	0.27	mg/Kg	1	01/28/25	TH	SW6010D
Boron	7.1	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	28600	51	mg/Kg	10	01/28/25	TH	SW6010D
Cadmium	0.39	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.23	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	18.1	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Copper	38.2	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	14500	51	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	0.88	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	1230	51	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	5920	51	mg/Kg	10	01/28/25	TH	SW6010D
Manganese	305	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	304	5.1	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	18.7	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Lead	212	0.34	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Tin	11.4	5.1	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.62	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115D

Phoenix I.D.: CS51756

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	0.40	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.1	3.1	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	24.8	0.34	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	134	0.7	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	90		%		01/27/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.39	0.39	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
pH at 25C - Soil	9.51	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 5	5	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	110		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	330	44	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	160	88	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	490	44	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	Interference		%	5	01/29/25	JRB	40 - 140 %	
% Terphenyl (surr)	87		%	5	01/29/25	JRB	40 - 140 %	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	5.9	mg/Kg	50	01/28/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	77		%	50	01/28/25	V	70 - 130 %	
Chlorinated Herbicides								
2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A	
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A	

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-D	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	67		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	67		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	73	ug/Kg	2	01/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	81		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	86		%	2	01/28/25	SC	30 - 150 %
% TCMX	76		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	76		%	2	01/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.2	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	24	2.2	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	30	2.2	ug/Kg	2	01/30/25	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	01/30/25	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	01/30/25	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	01/30/25	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	01/30/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	01/30/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	01/30/25	AW	SW8081B
QA/QC Surrogates							

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% DCBP	81		%	2	01/30/25	AW	30 - 150 %	
% DCBP (Confirmation)	74		%	2	01/30/25	AW	30 - 150 %	
% TCMX	63		%	2	01/30/25	AW	30 - 150 %	
% TCMX (Confirmation)	72		%	2	01/30/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	63		%	10	01/30/25	JRB	30 - 150 %	
% DCAA (Confirmation)	64		%	10	01/30/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	70		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	62		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	49		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	50		%	10	01/30/25	AW	30 - 150 %	
TPH DRO (C10-C28)								
Diesel Range Organics (C10-C28)	ND	270	mg/Kg	5	01/29/25	JRB	SW8015D DRO	
QA/QC Surrogates								
% COD (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %	
% Terphenyl (surr)	70		%	5	01/29/25	JRB	50 - 150 %	
Volatiles (TCL)								
1,1,1-Trichloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D	
1,1,2-Trichloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D	
1,1-Dichloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D	

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115D

Phoenix I.D.: CS51756

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	26	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	26	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	31	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	4.1	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	26	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Styrene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	5.2	ug/kg	1	01/28/25	JLI	SW8260D

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	93		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	110		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	01/28/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	77	ug/kg	1	01/28/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	5.2	ug/Kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	110		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	01/28/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	96		%	10	01/28/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	101		%	10	01/28/25	MH	70 - 130 %
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %
Volatile Library Search	Completed				01/28/25	JLI	
Semivolatiles							
1,1-Biphenyl	260	260	ug/Kg	1	01/28/25	KCA	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E [1]
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115D

Phoenix I.D.: CS51756

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dinitrophenol	ND	590	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Methylnaphthalene	730	260	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Nitroaniline	ND	590	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E	1
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	01/28/25	KCA	SW8270E	
3-Nitroaniline	ND	590	ug/Kg	1	01/28/25	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Nitroaniline	ND	590	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E	
Acenaphthene	2900	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Acenaphthylene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Acetophenone	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Anthracene	6100	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Atrazine	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Benz(a)anthracene	9900	1300	ug/Kg	5	01/29/25	KCA	SW8270E	
Benzaldehyde	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(a)pyrene	7600	1300	ug/Kg	5	01/29/25	KCA	SW8270E	
Benzo(b)fluoranthene	11000	1300	ug/Kg	5	01/29/25	KCA	SW8270E	
Benzo(ghi)perylene	4500	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(k)fluoranthene	3700	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzyl butyl phthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Caprolactam	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Carbazole	2400	370	ug/Kg	1	01/28/25	KCA	SW8270E	
Chrysene	8400	1300	ug/Kg	5	01/29/25	KCA	SW8270E	
Dibenz(a,h)anthracene	1300	180	ug/Kg	1	01/28/25	KCA	SW8270E	
Dibenzofuran	2500	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Diethyl phthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Dimethylphthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Di-n-butylphthalate	ND	730	ug/Kg	1	01/28/25	KCA	SW8270E	
Di-n-octylphthalate	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Fluoranthene	19000	1300	ug/Kg	5	01/29/25	KCA	SW8270E	
Fluorene	3900	260	ug/Kg	1	01/28/25	KCA	SW8270E	
Hexachlorobenzene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobutadiene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	4700	260	ug/Kg	1	01/28/25	KCA	SW8270E
Isophorone	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Naphthalene	1100	260	ug/Kg	1	01/28/25	KCA	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	01/28/25	KCA	SW8270E
Phenanthrene	24000	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Phenol	ND	260	ug/Kg	1	01/28/25	KCA	SW8270E
Pyrene	15000	1300	ug/Kg	5	01/29/25	KCA	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	71		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorophenol	56		%	1	01/28/25	KCA	30 - 130 %
% Nitrobenzene-d5	73		%	1	01/28/25	KCA	30 - 130 %
% Phenol-d5	66		%	1	01/28/25	KCA	30 - 130 %
% Terphenyl-d14	59		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl (5x)	66		%	5	01/29/25	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	78		%	5	01/29/25	KCA	30 - 130 %
% Terphenyl-d14 (5x)	45		%	5	01/29/25	KCA	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	91		%	1	01/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	73		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	59		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	79		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	57		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	76		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

February 05, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	EP	01/24/25	10:35
Location Code:	AES-EASTSIDE	Received by:	KD1	01/27/25	16:16
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	0897				

Laboratory Data

SDG ID: GCS51748
Phoenix ID: CS51757

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Aluminum	5900	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Arsenic	5.93	0.70	mg/Kg	1	01/28/25	TH	SW6010D
Barium	150	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Beryllium	0.33	0.28	mg/Kg	1	01/28/25	TH	SW6010D
Boron	2.5	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Calcium	9650	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Cadmium	0.57	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Cobalt	6.04	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Chromium	13.7	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Copper	56.9	0.7	mg/kg	1	01/28/25	TH	SW6010D
Iron	13300	53	mg/Kg	10	01/28/25	TH	SW6010D
Mercury	1.13	0.03	mg/Kg	2	01/28/25	ZT	SW7471B
Potassium	1340	53	mg/Kg	10	01/28/25	TH	SW6010D
Magnesium	2920	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Manganese	229	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Sodium	763	5.3	mg/Kg	1	01/28/25	TH	SW6010D
Nickel	16.7	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Lead	327	0.35	mg/Kg	1	01/28/25	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	01/28/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	01/28/25	TH	SW6010D
Tin	12.3	5.3	mg/Kg	1	01/28/25	TH	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Barium	0.74	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	01/28/25	JM	SW846 1311/7470

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115E

Phoenix I.D.: CS51757

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Lead	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010	
TCLP Selenium	< 0.10	0.10	mg/L	1	01/28/25	CPP	SW846 1311/6010D	
Thallium	< 3.2	3.2	mg/Kg	1	01/28/25	TH	SW6010D	
TCLP Metals Digestion	Completed				01/28/25	AK/GW	SW3010A	
Vanadium	22.0	0.35	mg/Kg	1	01/28/25	TH	SW6010D	
Zinc	209	0.7	mg/Kg	1	01/28/25	TH	SW6010D	
Percent Solid	87		%		01/27/25	CV	SW846-%Solid	
ASTM C.O.D.	57	10	mg/L	1	01/30/25	NP	SM5220D	
ASTM Ammonia Nitrogen	0.17	0.10	mg/L	2	01/30/25	KDB	SM417/E350.2	
ASTM Oil/Grease	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM pH	9.58	0.10	pH Units	1	01/28/25	KG	SM423/E150.1	
ASTM O&G (hydrocarbon fraction)	< 1.4	1.4	mg/L	1	01/30/25	AMM	E1664A MOD	
ASTM Total Solids	500	10	mg/L	1	01/29/25	AK1/EC	SM209A/E160.3	
Corrosivity	Negative		Pos/Neg	1	01/27/25	ER	SW846-Corr	1
Flash Point	>200	200	Degree F	1	01/28/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.39	0.39	mg/Kg	1	01/28/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	01/28/25	G	SW846-Ignit	1
Oil and Grease by SW 9071	4700	160	mg/Kg	1	01/29/25	R/AMM	SW9071B	
pH at 25C - Soil	8.16	1.00	pH Units	1	01/27/25 21:42	ER	SW846 9045D	1
Reactivity Cyanide	< 6	6	mg/Kg	1	01/28/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	01/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	01/28/25	NP/GD	SW846-React	1
Redox Potential	-315		mV	1	01/27/25	ER	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.57	0.57	mg/Kg	1	01/28/25	KL1/GD	SW9012B	
Volatile Solids @ 500C	3.4	0.1	%	1	01/28/25	HD/EC	SM2540E MOD-15	1
ASTM Extraction	Completed				01/27/25	AK	D 3987 85	
Mercury Digestion	Completed				01/28/25	AC1/AC1	SW7471B	
Extraction of NY ETPH	Completed				01/27/25	B/R/F	SW3546	
Soil Extraction for Herbicide	Completed				01/28/25	Y/D	SW3546	
NJ EPH Extraction	Completed				01/28/25	H/F	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for Pesticides	Completed				01/28/25	RB/RB	SW3546	
Soil Extraction for SVOA	Completed				01/28/25	MQ/MQ	SW3546	
TCLP Digestion Mercury	Completed				01/28/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				01/28/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				01/27/25	AK	SW1311	
TCLP Extraction for Organics	Completed				01/27/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				01/29/25	CV/CV	SW3510C	
TCLP Semi-Volatile Extraction	Completed				01/29/25	P/P	SW3510C	
TCLP Extraction Volatiles	Completed				01/27/25	AK	SW1311	
TCLP Final PH	5.16	0.10	pH Units	1	01/27/25		SW1311/SM4500H+B	
Total Metals Digest	Completed				01/27/25	P/AG	SW3050B	
Extractable Organic Halogens	<40	40	mg/kg		01/30/25	*	SW9023	C

NJ EPH Category 1 (Fuel #2/Diesel)

>C28-C40	ND	45	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
C9-C28	110	89	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1
Total EPH	110	45	mg/kg	5	01/29/25	JRB	NJEPH 10-08 R3	1

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	103		%	5	01/29/25	JRB	40 - 140 %
% Terphenyl (surr)	77		%	5	01/29/25	JRB	40 - 140 %
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	5.8	mg/Kg	50	01/28/25	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	77		%	50	01/28/25	V	70 - 130 %
Chlorinated Herbicides							
2,4,5-T	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	01/29/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	01/29/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	01/29/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	81		%	10	01/29/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	01/29/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1221	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1232	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1242	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1248	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1254	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1260	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1262	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
PCB-1268	ND	77	ug/Kg	2	01/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	76		%	2	01/28/25	SC	30 - 150 %
% DCBP (Confirmation)	82		%	2	01/28/25	SC	30 - 150 %
% TCMX	75		%	2	01/28/25	SC	30 - 150 %
% TCMX (Confirmation)	77		%	2	01/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDE	11	2.3	ug/Kg	2	01/30/25	AW	SW8081B
4,4' -DDT	14	2.3	ug/Kg	2	01/30/25	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	01/30/25	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Endosulfan sulfate	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Endrin	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Endrin aldehyde	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Endrin ketone	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
g-BHC	ND	1.5	ug/Kg	2	01/30/25	AW	SW8081B	
g-Chlordane	ND	3.8	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	7.7	ug/Kg	2	01/30/25	AW	SW8081B	
Methoxychlor	ND	38	ug/Kg	2	01/30/25	AW	SW8081B	
Toxaphene	ND	150	ug/Kg	2	01/30/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	85		%	2	01/30/25	AW	30 - 150 %	
% DCBP (Confirmation)	76		%	2	01/30/25	AW	30 - 150 %	
% TCMX	68		%	2	01/30/25	AW	30 - 150 %	
% TCMX (Confirmation)	70		%	2	01/30/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	01/30/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	01/30/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	59		%	10	01/30/25	JRB	30 - 150 %	
% DCAA (Confirmation)	59		%	10	01/30/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	01/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	01/30/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	01/30/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	01/30/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	54		%	10	01/30/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	50		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	68		%	10	01/30/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	68		%	10	01/30/25	AW	30 - 150 %	

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115E

Phoenix I.D.: CS51757

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	280	mg/Kg	5	01/29/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	Interference		%	5	01/29/25	JRB	50 - 150 %
% Terphenyl (surr)	118		%	5	01/29/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,1-Dichloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
2-Hexanone	ND	29	ug/kg	1	01/28/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	29	ug/kg	1	01/28/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	01/28/25	JLI	SW8260D
Benzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Bromochloromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Bromodichloromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Bromoform	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Bromomethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Carbon Disulfide	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Carbon tetrachloride	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Chlorobenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Chloroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Chloroform	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Chloromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Cyclohexane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Dibromochloromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Ethylbenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Isopropylbenzene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
m&p-Xylene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Methyl ethyl ketone	ND	35	ug/kg	1	01/28/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	01/28/25	JLI	SW8260D
Methylacetate	ND	4.7	ug/kg	1	01/28/25	JLI	SW8260D
Methylcyclohexane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Methylene chloride	ND	29	ug/kg	1	01/28/25	JLI	SW8260D
o-Xylene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Tetrachloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Toluene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Total Xylenes	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Trichloroethene	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
Vinyl chloride	ND	5.9	ug/kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	90		%	1	01/28/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	88	ug/kg	1	01/28/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
1,3-Dichloropropane	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
n-Butylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
n-Propylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
p-Isopropyltoluene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
sec-Butylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
tert-Butylbenzene	ND	5.9	ug/Kg	1	01/28/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	01/28/25	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	01/28/25	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	01/28/25	JLI	70 - 130 %
% Toluene-d8	90		%	1	01/28/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	01/28/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	01/28/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	01/28/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane (10x)	102		%	10	01/28/25	MH	70 - 130 %	
% Toluene-d8 (10x)	100		%	10	01/28/25	MH	70 - 130 %	
Volatile Library Search	Completed				01/29/25	JLI		
Semivolatiles								
1,1-Biphenyl	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dinitrophenol	ND	610	ug/Kg	1	01/28/25	KCA	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Methylnaphthalene	320	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Nitroaniline	ND	610	ug/Kg	1	01/28/25	KCA	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	01/28/25	KCA	SW8270E	1
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	01/28/25	KCA	SW8270E	
3-Nitroaniline	ND	610	ug/Kg	1	01/28/25	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Nitroaniline	ND	610	ug/Kg	1	01/28/25	KCA	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	01/28/25	KCA	SW8270E	
Acenaphthene	1400	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Acetophenone	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Anthracene	2300	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Atrazine	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benz(a)anthracene	4600	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzaldehyde	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(a)pyrene	5300	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(b)fluoranthene	6400	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(ghi)perylene	3100	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzo(k)fluoranthene	2000	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Benzyl butyl phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	01/28/25	KCA	SW8270E	
Caprolactam	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E	
Carbazole	490	380	ug/Kg	1	01/28/25	KCA	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	4300	270	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenz(a,h)anthracene	650	190	ug/Kg	1	01/28/25	KCA	SW8270E
Dibenzofuran	810	270	ug/Kg	1	01/28/25	KCA	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-butylphthalate	ND	760	ug/Kg	1	01/28/25	KCA	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Fluoranthene	9700	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Fluorene	1100	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	3000	270	ug/Kg	1	01/28/25	KCA	SW8270E
Isophorone	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Naphthalene	540	270	ug/Kg	1	01/28/25	KCA	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	190	ug/Kg	1	01/28/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	01/28/25	KCA	SW8270E
Phenanthrene	8700	1300	ug/Kg	5	01/29/25	KCA	SW8270E
Phenol	ND	270	ug/Kg	1	01/28/25	KCA	SW8270E
Pyrene	8500	1300	ug/Kg	5	01/29/25	KCA	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorophenol	65		%	1	01/28/25	KCA	30 - 130 %
% Nitrobenzene-d5	82		%	1	01/28/25	KCA	30 - 130 %
% Phenol-d5	73		%	1	01/28/25	KCA	30 - 130 %
% Terphenyl-d14	67		%	1	01/28/25	KCA	30 - 130 %
% 2-Fluorobiphenyl (5x)	75		%	5	01/29/25	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	89		%	5	01/29/25	KCA	30 - 130 %
% Terphenyl-d14 (5x)	52		%	5	01/29/25	KCA	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	01/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	74		%	1	01/30/25	MR	15 - 110 %

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP-115E

Phoenix I.D.: CS51757

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	63		%	1	01/30/25	MR	30 - 130 %
% 2-Fluorophenol	50		%	1	01/30/25	MR	15 - 110 %
% Nitrobenzene-d5	68		%	1	01/30/25	MR	30 - 130 %
% Phenol-d5	47		%	1	01/30/25	MR	15 - 110 %
% Terphenyl-d14	69		%	1	01/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				01/29/25	MR	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Hexavalent Chromium:
This sample is in a reducing state.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

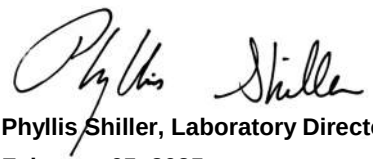
Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Ammonia:
This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Extractable Organic Halogens (SW9023) was analyzed by NY certified lab #11777.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
February 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: BH-116

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51748

Sample wt/vol: 3.96 (g/mL) g Lab File ID: 0128_22.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 21 Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: BH-117

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51749

Sample wt/vol: 6.06 (g/mL) g Lab File ID: 0128_23.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 14 Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: BH-118

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51750

Sample wt/vol: 4.7 (g/mL) g Lab File ID: 0128_24.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 15 Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000138-86-3	Limonene	6.520	190	JN
526-73-8	1,2,3-Trimethylbenzene	6.775	7	Q
000496-11-7	Indane	6.880	89	JN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	7.205	76	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	7.534	55	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	7.686	66	JN
076089-59-3	1,3-Cyclopentadiene, 1,2,3,4-tetramethyl-5-methylene-	7.822	47	JN
000091-57-6	Naphthalene, 2-methyl-	9.004	79	JN
000090-12-0	Naphthalene, 1-methyl-	9.103	290	JN
000575-37-1	Naphthalene, 1,7-dimethyl-	9.621	49	JN
000571-58-4	Naphthalene, 1,4-dimethyl-	9.705	57	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: BH-119

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51751

Sample wt/vol: 4.7 (g/mL) g Lab File ID: 0128_25.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 12 Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000138-86-3	Limonene	6.520	150	JN
526-73-8	1,2,3-Trimethylbenzene	6.775	9.5	Q
001120-21-4	Undecane	6.891	60	JN
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	7.205	95	JN
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	7.534	61	JN
017301-23-4	Undecane, 2,6-dimethyl-	7.780	69	JN
000091-57-6	Naphthalene, 2-methyl-	9.004	130	JN
000090-12-0	Naphthalene, 1-methyl-	9.103	310	JN
001127-76-0	Naphthalene, 1-ethyl-	9.532	69	JN
000581-42-0	Naphthalene, 2,6-dimethyl-	9.621	68	JN
000581-40-8	Naphthalene, 2,3-dimethyl-	9.705	81	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-123

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51752

Sample wt/vol: 5.13 (g/mL) g Lab File ID: 0128_26.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 14 Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115A

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51753

Sample wt/vol: 8.73 (g/mL) g Lab File ID: 0128_27.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 17 Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115B

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51754

Sample wt/vol: 7.84 (g/mL) g Lab File ID: 0128_28.D

Level: (low/med): Meth Date Received: 01/27/25

% Moisture: not dec. 43 Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 50

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 100

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000611-14-3	Benzene, 1-ethyl-2-methyl-	6.117	7500	JN
526-73-8	1,2,3-Trimethylbenzene	6.775	1900	Q
000095-13-6	Indene	7.116	3700	JN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	7.205	4700	JN
065051-83-4	Benzene, (1-methyl-2-cyclopropen-1-yl)-	8.000	6200	JN
000090-12-0	Naphthalene, 1-methyl-	9.009	58000	JN
000091-57-6	Naphthalene, 2-methyl-	9.109	39000	JN
001127-76-0	Naphthalene, 1-ethyl-	9.532	18000	JN
000581-42-0	Naphthalene, 2,6-dimethyl-	9.621	14000	JN
000581-40-8	Naphthalene, 2,3-dimethyl-	9.705	13000	JN
000582-16-1	Naphthalene, 2,7-dimethyl-	9.731	5400	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115C

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51755

Sample wt/vol: 4.51 (g/mL) g Lab File ID: 0129_15.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 15 Date Analyzed: 01/29/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 12 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000464-15-3	Bicyclo[2.2.1]heptane, 1,7,7-trimethyl-	5.840	180	JN
000473-19-8	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-	6.127	330	JN
526-73-8	1,2,3-Trimethylbenzene	6.775	16	Q
527-84-4	2-Isopropyltoluene	6.822	37	Q
029949-27-7	n-Amylcyclohexane	7.330	260	JN
	unknown	7.702	170	J
017301-28-9	Undecane, 3,6-dimethyl-	7.780	340	JN
	unknown	7.811	130	J
	unknown	8.068	450	J
026730-14-3	Tridecane, 7-methyl-	8.178	590	JN
	unknown	8.225	120	J
003891-98-3	Dodecane, 2,6,10-trimethyl-	8.790	240	JN

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115D

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51756

Sample wt/vol: 5.39 (g/mL) g Lab File ID: 0128_26.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 10 Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115E

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS5174

Matrix:(soil/water): SOIL Lab Sample ID: CS51757

Sample wt/vol: 4.92 (g/mL) g Lab File ID: 0128_27.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 13 Date Analyzed: 01/28/25

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: BH-116

Lab Name: Phoenix Environmental Labs | Client: AES-EASTSIDE

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCS51748

Matrix:(soil/water): SOIL | Lab Sample ID: CS51748

Sample wt/vol: 15.15 (g/mL) g | Lab File ID: 0128_16.D

Level: (low/med): Low | Date Received: 01/27/25

% Moisture: not dec. 21 | decanted:(Y/N) NA | Date Extracted: 01/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) | Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 | CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.045	3100	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.747	1200	JNC
	unknown	6.834	630	J
000613-12-7	Anthracene, 2-methyl-	7.375	670	JN
000832-69-9	Phenanthrene, 1-methyl-	7.398	830	JN
	Anthracene, 2-methyl- Isomer	7.439	450	JN
	unknown	7.469	880	J
035465-71-5	2-Phenylnaphthalene	7.639	450	JN
000781-92-0	Anthracene, 1,4-dimethyl-	7.862	640	JN
005737-13-3	Cyclopenta(def)phenanthrenone	7.933	580	JN
	unknown	8.121	460	J
000238-84-6	11H-Benzo[a]fluorene	8.503	680	JN
003442-78-2	Pyrene, 2-methyl-	8.608	430	JN
000192-97-2	Benzo[e]pyrene	11.999	2900	JN
000198-55-0	Perylene	12.316	1100	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: BH-117

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS51748

Matrix:(soil/water): SOIL Lab Sample ID: CS51749

Sample wt/vol: 15.12 (g/mL) g Lab File ID: 0128_17.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 14 decanted:(Y/N) NA Date Extracted: 01/28/25

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.045	1600	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.747	1500	JNC
	unknown	6.840	1000	J
000613-12-7	Anthracene, 2-methyl-	7.375	1100	JN
000610-48-0	Anthracene, 1-methyl-	7.398	1500	JN
002531-84-2	Phenanthrene, 2-methyl-	7.439	650	JN
	unknown	7.469	1900	J
000832-69-9	Phenanthrene, 1-methyl-	7.492	850	JN
000612-94-2	Naphthalene, 2-phenyl-	7.639	700	JN
000483-87-4	Phenanthrene, 1,7-dimethyl-	7.868	840	JN
005737-13-3	Cyclopenta(def)phenanthrenone	7.939	690	JN
	unknown	8.127	720	J
000192-97-2	Benzo[e]pyrene	11.617	740	JN
000192-97-2	Benzo[e]pyrene	11.999	2600	JN
	Benzo[e]pyrene Isomer	12.316	800	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: BH-118

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS51748

Matrix:(soil/water): SOIL Lab Sample ID: CS51750

Sample wt/vol: 15.25 (g/mL) g Lab File ID: 0128_23.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 15 decanted:(Y/N) NA Date Extracted: 01/28/25

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.046	1300	JNA
000091-57-6	Naphthalene, 2-methyl-	4.813	320	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.753	1200	JNC
1000130-97-9	E-15-Heptadecenal	6.840	630	JN
002531-84-2	Phenanthrene, 2-methyl-	7.404	330	JN
	unknown	7.475	1100	J
001599-67-3	1-Docosene	8.268	450	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: BH-119

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS51748

Matrix:(soil/water): SOIL Lab Sample ID: CS51751

Sample wt/vol: 15.14 (g/mL) g Lab File ID: 0128_18.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 12 decanted:(Y/N) NA Date Extracted: 01/28/25

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.045	1400	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.747	950	JNC
000112-88-9	1-Octadecene	6.840	610	JN
000832-69-9	Phenanthrene, 1-methyl-	7.375	420	JN
002531-84-2	Phenanthrene, 2-methyl-	7.398	550	JN
	unknown	7.469	850	J
001599-67-3	1-Docosene	8.262	360	JN
000243-17-4	11H-Benzo[b]fluorene	8.509	350	JN
003442-78-2	Pyrene, 2-methyl-	8.608	320	JN
000192-97-2	Benzo[e]pyrene	11.993	820	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-123

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS51748

Matrix:(soil/water) SOIL Lab Sample ID: CS51752

Sample wt/vol: 15.12 (g/mL) g Lab File ID: 0128_19.D

Level: (low/med) Low Date Received: 01/27/25

% Moisture: not dec. 14 decanted:(Y/N) NA Date Extracted: 01/28/25

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.046	1400	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.747	770	JNC
000234-41-3	Naphtho[1,2-b]thiophene	6.840	840	JN
000832-69-9	Phenanthrene, 1-methyl-	7.375	980	JN
002531-84-2	Phenanthrene, 2-methyl-	7.404	1300	JN
000610-48-0	Anthracene, 1-methyl-	7.445	710	JN
	unknown	7.469	1600	J
017960-79-1	3a,6-Epoxy-3aH-isoindole, 1,2,3,6,	7.557	910	JN
000612-94-2	Naphthalene, 2-phenyl-	7.639	570	JN
000084-65-1	9,10-Anthracenedione	7.663	550	JN
003674-66-6	Phenanthrene, 2,5-dimethyl-	7.862	640	JN
	unknown	8.127	520	J
	Benzo[e]pyrene Isomer	11.629	790	JN
000192-97-2	Benzo[e]pyrene	12.011	2300	JN
000198-55-0	Perylene	12.322	860	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115A

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS51748

Matrix:(soil/water): SOIL Lab Sample ID: CS51753

Sample wt/vol: 15.35 (g/mL) g Lab File ID: 0128_20.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 17 decanted:(Y/N) NA Date Extracted: 01/28/25

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.051	8500	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.747	1200	JNC
002531-84-2	Phenanthrene, 2-methyl-	7.381	2000	JN
000832-69-9	Phenanthrene, 1-methyl-	7.404	1900	JN
	Phenanthrene, 2-methyl- Isomer	7.445	1500	JN
	unknown	7.475	3900	J
000612-94-2	Naphthalene, 2-phenyl-	7.645	1400	JN
002789-88-0	di-p-Tolylacetylene	7.868	2200	JN
	unknown	7.904	1900	J
006232-48-0	Acephenanthrylene, 4,5-dihydro-	7.951	1300	JN
	unknown	8.133	1300	J
000243-17-4	11H-Benzo[b]fluorene	8.520	1300	JN
000192-97-2	Benzo[e]pyrene	11.658	3100	JN
000192-97-2	Benzo[e]pyrene	12.052	8300	JN
	Benzo[e]pyrene Isomer	12.369	3500	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115B

Lab Name: Phoenix Environmental Labs | Client: AES-EASTSIDE

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCS51748

Matrix:(soil/water): SOIL | Lab Sample ID: CS51754

Sample wt/vol: 15.02 (g/mL) g | Lab File ID: 0128_24.D

Level: (low/med): Low | Date Received: 01/27/25

% Moisture: not dec. 43 | decanted:(Y/N) NA | Date Extracted: 01/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) | Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 | CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000095-13-6	Indene	3.309	5100	JNC
000090-12-0	Naphthalene, 1-methyl-	4.825	4900	JN
001127-76-0	Naphthalene, 1-ethyl-	5.224	11000	JN
000575-43-9	Naphthalene, 1,6-dimethyl-	5.283	13000	JN
000581-40-8	Naphthalene, 2,3-dimethyl-	5.348	14000	JN
000581-42-0	Naphthalene, 2,6-dimethyl-	5.371	8800	JN
	Naphthalene, 2,3-dimethyl- Isomer	5.448	11000	JN
	Naphthalene, 1,4,6-trimethyl- Isomer	5.736	4000	JN
002131-42-2	Naphthalene, 1,4,6-trimethyl-	5.924	3300	JN
000829-26-5	Naphthalene, 2,3,6-trimethyl-	6.006	4200	JN
000203-80-5	1H-Phenalene	6.035	2400	JN
	unknown	6.217	1700	J
002443-58-5	2-Hydroxyfluorene	6.258	4300	JN
000238-84-6	11H-Benzo[a]fluorene	8.544	4200	JN
000192-97-2	Benzo[e]pyrene	12.081	1900	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115C

Lab Name: Phoenix Environmental Labs | Client: AES-EASTSIDE

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCS51748

Matrix:(soil/water): SOIL | Lab Sample ID: CS51755

Sample wt/vol: 15.04 (g/mL) g | Lab File ID: 0128_21.D

Level: (low/med): Low | Date Received: 01/27/25

% Moisture: not dec. 15 | decanted:(Y/N) NA | Date Extracted: 01/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) | Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 | CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.046	1900	JNA
000099-87-6	Benzene, 1-methyl-4-(1-methylethyl	3.168	9400	JNC
026730-14-3	Tridecane, 7-methyl-	4.502	630	JN
000544-76-3	Hexadecane	5.424	790	JN
000132-65-0	Dibenzothiophene	6.840	630	JN
000832-69-9	Phenanthrene, 1-methyl-	7.381	1200	JN
002531-84-2	Phenanthrene, 2-methyl-	7.404	1000	JN
000949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	7.445	660	JN
	unknown	7.475	2900	J
1000197-14-1	4b,8-Dimethyl-2-isopropylphenanthr	7.786	1300	JN
032624-67-2	10,18-Bisnorabieta-8,11,13-triene	7.868	3200	JN
000629-62-9	Pentadecane	7.956	840	JN
000483-65-8	Phenanthrene, 1-methyl-7-(1-methyl	8.491	4800	JN
000243-17-4	11H-Benzo[b]fluorene	8.526	800	JN
033543-31-6	Fluoranthene, 2-methyl-	8.626	750	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115D

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS51748

Matrix:(soil/water): SOIL Lab Sample ID: CS51756

Sample wt/vol: 15.17 (g/mL) g Lab File ID: 0128_25.D

Level: (low/med): Low Date Received: 01/27/25

% Moisture: not dec. 10 decanted:(Y/N) NA Date Extracted: 01/28/25

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.052	7800	JNA
000091-57-6	Naphthalene, 2-methyl-	4.813	720	JN
000575-43-9	Naphthalene, 1,6-dimethyl-	5.277	510	JN
000581-40-8	Naphthalene, 2,3-dimethyl-	5.342	650	JN
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.753	470	JNC
002320-32-3	Benzene, [1-(2,4-cyclopentadien-1-	6.170	460	JN
	unknown	6.188	510	J
007320-53-8	Dibenzofuran, 4-methyl-	6.258	950	JN
	unknown	7.481	480	J
000238-84-6	11H-Benzo[a]fluorene	8.526	670	JN
	11H-Benzo[a]fluorene Isomer	8.591	520	JN
002381-21-7	Pyrene, 1-methyl-	8.626	570	JN
	Benzo[e]pyrene Isomer	11.670	2200	JN
000050-32-8	Benzo[a]pyrene	12.069	6500	JN
000192-97-2	Benzo[e]pyrene	12.387	2500	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP-115E

Lab Name: Phoenix Environmental Labs | Client: AES-EASTSIDE

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCS51748

Matrix:(soil/water): SOIL | Lab Sample ID: CS51757

Sample wt/vol: 15.11 (g/mL) g | Lab File ID: 0128_22.D

Level: (low/med): Low | Date Received: 01/27/25

% Moisture: not dec. 13 | decanted:(Y/N) NA | Date Extracted: 01/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 1/28/2025

Conc. Extract Volume: 1000 (uL) | Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 15 | CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.052	1500	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.747	1100	JNC
000132-65-0	Dibenzothiophene	6.840	860	JN
000613-12-7	Anthracene, 2-methyl-	7.381	910	JN
002531-84-2	Phenanthrene, 2-methyl-	7.404	1300	JN
	Phenanthrene, 2-methyl- Isomer	7.445	700	JN
	unknown	7.475	2000	J
000949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	7.498	640	JN
000612-94-2	Naphthalene, 2-phenyl-	7.645	650	JN
003674-66-6	Phenanthrene, 2,5-dimethyl-	7.868	700	JN
186337-14-4	Pyridine-3-carbonitrile, 5-allyl-4	7.951	600	JN
	unknown	8.133	650	J
000192-97-2	Benzo[e]pyrene	11.640	1100	JN
000050-32-8	Benzo[a]pyrene	12.028	3600	JN
000198-55-0	Perylene	12.351	1300	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

NY # 11301

QA/QC Report

February 05, 2025

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 768360 (mg/kg), QC Sample No: CS51750 40X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)													
Chromium, Hexavalent - Soil													
Chromium, Hexavalent	BRL	0.40				92.8						80 - 120	30
Chromium, Hexavalent (Ins)						98.1						80 - 120	30
Chromium, Hexavalent (Sol)						94.2						80 - 120	30
Comment: The QC sample is in a reducing state, acceptance criteria are not applicable for samples in a reducing state. The soluble spike was analyzed twice with similar recoveries. Additional Hexavalent Chromium criteria: MS acceptance range is 75-125%.													
QA/QC Batch 768368 (mg/kg), QC Sample No: CS51519 2X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	101	104	2.9	96.7	108	11.0	70 - 130	30
Comment: Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 768374 (mg/L), QC Sample No: CS51519 (CS51756, CS51757)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	110			103			80 - 120	20
Comment: Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 768375 (mg/L), QC Sample No: CS51746 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	110			115			80 - 120	20
Comment: Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 768376 (mg/L), QC Sample No: CS47607 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)													
ICP Metals - TCLP Extraction													
Arsenic	BRL	0.10	<0.10	<0.10	NC	107	111	3.7	106			80 - 120	20
Barium	BRL	0.10	0.40	0.29	NC	99.2	102	2.8	99.2			80 - 120	20
Cadmium	BRL	0.050	<0.050	<0.050	NC	101	104	2.9	105			80 - 120	20
Chromium	BRL	0.10	<0.10	<0.10	NC	100	103	3.0	103			80 - 120	20
Lead	BRL	0.10	0.90	0.65	32.3	97.3	100	2.7	102			80 - 120	20 r
Selenium	BRL	0.10	<0.10	<0.10	NC	108	111	2.7	104			80 - 120	20
Silver	BRL	0.10	<0.10	<0.10	NC	104	107	2.8	101			80 - 120	20
Comment: Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.													

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 768300 (mg/kg), QC Sample No: CS51566 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)														
ICP Metals - Soil														
Aluminum	BRL	5.0	9910	9700	2.10	98.5	120	19.7	NC			75 - 125	30	
Antimony	BRL	3.3	<3.9	<3.5	NC	78.5	91.0	14.7	82.3			75 - 125	30	
Arsenic	BRL	0.67	4.82	5.26	8.70	88.4	107	19.0	90.0			75 - 125	30	
Barium	BRL	0.33	285	374	27.0	93.0	114	20.3	76.3			75 - 125	30	
Beryllium	BRL	0.27	0.45	0.46	NC	92.3	112	19.3	93.4			75 - 125	30	
Boron	BRL	1.3	4.9	5.8	NC	91.9	112	19.7	90.8			75 - 125	30	
Cadmium	BRL	0.33	0.46	0.58	NC	92.4	111	18.3	90.6			75 - 125	30	
Calcium	BRL	5.0	20400	23900	15.8	88.6	107	18.8	NC			75 - 125	30	
Chromium	BRL	0.33	18.8	23.1	20.5	91.5	110	18.4	93.9			75 - 125	30	
Cobalt	BRL	0.33	7.53	7.90	4.80	94.4	113	17.9	93.5			75 - 125	30	
Copper	BRL	0.67	30.4	41.0	29.7	95.2	115	18.8	111			75 - 125	30	
Iron	BRL	5.0	15900	18800	16.7	100	125	22.2	NC			75 - 125	30	
Lead	BRL	0.33	401	463	14.4	95.8	121	23.2	66.6			75 - 125	30	m
Magnesium	BRL	5.0	3820	3880	1.60	96.9	118	19.6	NC			75 - 125	30	
Manganese	BRL	0.33	259	345	28.5	101	117	14.7	>130			75 - 125	30	m
Nickel	BRL	0.33	18.0	20.4	12.5	93.2	112	18.3	93.1			75 - 125	30	
Potassium	BRL	5.0	1980	1530	25.6	93.4	113	19.0	84.0			75 - 125	30	
Selenium	BRL	1.3	<1.6	<1.4	NC	78.9	95.2	18.7	77.8			75 - 125	30	
Silver	BRL	0.33	<0.39	<0.35	NC	94.6	115	19.5	96.8			75 - 125	30	
Sodium	BRL	5.0	481	353	30.7	95.2	117	20.5	>130			75 - 125	30	m,r
Thallium	BRL	3.0	<3.5	<3.2	NC	95.1	115	18.9	91.5			75 - 125	30	
Tin	BRL	5.0	8.6	6.8	NC	98.8	119	18.5	92.5			75 - 125	30	
Vanadium	BRL	0.33	31.0	31.3	1.00	94.4	114	18.8	96.5			75 - 125	30	
Zinc	BRL	0.67	251	313	22.0	91.4	117	24.6	97.0			75 - 125	30	

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

NY # 11301

QA/QC Report

February 05, 2025

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 768307 (mg/Kg), QC Sample No: CS50005 50X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.55	<0.55	NC	90.6	120	27.9	103			80 - 120	30
Comment: Additional: MS acceptance range is 75-125%.													
QA/QC Batch 768364 (mg/Kg), QC Sample No: CS51665 5X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)													
Reactivity Cyanide	BRL	5	<5	<5.4	NC	99.6						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	96.0						80 - 120	30
QA/QC Batch 768792 (mg/L), QC Sample No: CS50749 (CS51748, CS51749, CS51750, CS51751, CS51753, CS51754, CS51755, CS51757)													
Oil and Grease by EPA 1664A	BRL	1.4				93.0	91.0	2.2				85 - 115	20
Comment: A Blank spike was performed instead of a matrix spike. Additional: MS acceptance range 75-125%.													
QA/QC Batch 768793 (mg/L), QC Sample No: CS51024 (CS51757)													
O&G, Non-polar Material	BRL	1.4				99.0	85.0	15.2				85 - 115	20
Comment: A Blank spike was performed instead of a matrix spike. Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 768344 (PH), QC Sample No: CS51519 (CS51748, CS51749, CS51750, CS51751, CS51752)													
pH			7.32	7.27	0.70	101						85 - 115	20
QA/QC Batch 768420 (Degree F), QC Sample No: CS51665 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)													
Flash Point			>200	>200	NC	101						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 768823 (mg/L), QC Sample No: CS51715 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51757)													
C.O.D.	BRL	10	21	21	NC	102			106			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 768450 (mg/kg), QC Sample No: CS51748 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51757)													
Oil and Grease by SW 9071	BRL	140	2200	1900	14.6	99.0			123			80 - 120	30
Comment: Additional: MS acceptance range 75-125%.													
QA/QC Batch 768353 (PH), QC Sample No: CS51753 (CS51753, CS51754, CS51755, CS51756, CS51757)													
pH			8.57	8.56	0.10	101						85 - 115	20

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 768354 (mV), QC Sample No: CS51753 (CS51753, CS51754, CS51755, CS51756, CS51757)													
Redox Potential			-116	-112	NC							75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 768557 (PH), QC Sample No: CS52923 (CS51748, CS51749)													
pH			9.51	9.50	0.10	100						85 - 115	20
QA/QC Batch 768558 (mV), QC Sample No: CS52923 (CS51748, CS51749)													
Redox Potential			175	199	NC							75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 768586 (mg/L), QC Sample No: CS51341 (CS51748, CS51749, CS51750, CS51751, CS51753, CS51754, CS51755, CS51757)													
Ammonia as Nitrogen	BRL	0.05	0.09	0.11	NC	90.7			102			90 - 110	20

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NY # 11301

QA/QC Report

February 05, 2025

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 768476 (mg/kg), QC Sample No: CS51749 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)											
Extractable Petroleum Hydrocarbons - Soil											
C9-C28	ND	10	68	84	21.1	70	72	2.8	40 - 140	25	
C9-C28 #2 Fuel / Diesel			121	122	0.8				40 - 140	25	
>C28-C40	ND	10	67	81	18.9	74	64	14.5	40 - 140	25	
C9 - Nonane	ND	3.3	56	68	19.4	61	48	23.9	40 - 140	25	
C10 - Decane	ND	3.3	47	59	22.6	46	36	24.4	40 - 140	25	m
C12 - Dodecane	ND	3.3	57	73	24.6	50	41	19.8	40 - 140	25	
C14 - Tetradecane	ND	3.3	65	83	24.3	52	41	23.7	40 - 140	25	
C16 - Hexadecane	ND	3.3	66	85	25.2	66	61	7.9	40 - 140	25	
C18 - Octadecane	ND	3.3	80	107	28.9	102	78	26.7	40 - 140	25	r
C20 - Eicosane	ND	3.3	79	95	18.4	77	81	5.1	40 - 140	25	
C21 - Heneicosane	ND	3.3	71	86	19.1	133	>200	NC	40 - 140	25	m
C22 - Docosane	ND	3.3	92	104	12.2	92	65	34.4	40 - 140	25	r
C24 - Tetracosane	ND	3.3	71	93	26.8	84	68	21.1	40 - 140	25	r
C26 - Hexacosane	ND	3.3	71	84	16.8	55	62	12.0	40 - 140	25	
C28 - Octacosane	ND	3.3	74	83	11.5	43	99	78.9	40 - 140	25	r
C30 - Tricotane	ND	3.3	73	88	18.6	64	60	6.5	40 - 140	25	
C32 - Dotriacontance	ND	3.3	71	82	14.4	60	72	18.2	40 - 140	25	
C34 - Tetratriacontane	ND	3.3	66	86	26.3	62	62	0.0	40 - 140	25	r
C36 - Hexatriacontane	ND	3.3	58	77	28.1	82	71	14.4	40 - 140	25	r
C38 - Octatriacontane	ND	3.3	68	77	12.4	109	64	52.0	40 - 140	25	r
C40 - Tetracontane	ND	3.3	65	77	16.9	70	54	25.8	40 - 140	25	r
% COD (surr)	68	%	71	81	13.2	62	74	17.6	40 - 140	25	
% Terphenyl (surr)	92	%	68	84	21.1	67	88	27.1	40 - 140	25	r
Comment:											
Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%											
QA/QC Batch 768302 (mg/Kg), QC Sample No: CS45398 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum HC	ND	50	107	119	10.6	98	133	30.3	30 - 130	30	m
% COD (surr)	82	%	89	100	11.6	76	68	11.1	50 - 150	30	
% Terphenyl (surr)	70	%	70	79	12.1	66	78	16.7	50 - 150	30	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 768826 (mg/Kg), QC Sample No: CS51686 50X (CS51754 (100X))											
Gasoline Range Hydrocarbons (C6C10) - Soil											
GRO (C6-C10)	ND	5.0	98	101	3.0	94	97	3.1	70 - 130	30	
% 2,5-Dibromotoluene (FID)	91	%	94	102	8.2	95	92	3.2	70 - 130	30	

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 768610 (mg/Kg), QC Sample No: CS51748 50X (CS51748 (50X) , CS51749 (50X) , CS51750 (50X) , CS51751 (50X) , CS51752 (50X) , CS51753 (50X) , CS51755 (50X) , CS51756 (50X) , CS51757 (50X))										
Gasoline Range Hydrocarbons (C6C10) - Soil										
GRO (C6-C10)	ND	5.0	99	99	0.0	98	100	2.0	70 - 130	30
% 2,5-Dibromotoluene (FID)	101	%	106	106	0.0	102	96	6.1	70 - 130	30
QA/QC Batch 768455 (ug/Kg), QC Sample No: CS51370 10X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	130	52	60	14.3	45	55	20.0	40 - 140	30
2,4,5-TP (Silvex)	ND	130	64	69	7.5	51	64	22.6	40 - 140	30
2,4-D	ND	250	62	72	14.9	53	63	17.2	40 - 140	30
2,4-DB	ND	2500	51	55	7.5	46	57	21.4	40 - 140	30
Dalapon	ND	130	57	62	8.4	45	54	18.2	40 - 140	30
Dicamba	ND	130	73	80	9.2	52	59	12.6	40 - 140	30
Dichloroprop	ND	130	68	75	9.8	55	66	18.2	40 - 140	30
Dinoseb	ND	130	59	70	17.1	49	56	13.3	40 - 140	30
% DCAA (Surrogate Rec)	102	%	86	92	6.7	69	83	18.4	30 - 150	30
% DCAA (Surrogate Rec) (Confirm	98	%	81	94	14.9	68	81	17.4	30 - 150	30
Comment:										
8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.										
QA/QC Batch 768381 (ug/L), QC Sample No: CS51625 10X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)										
TCLP Herbicides										
2,4,5-TP (Silvex)	ND	50	91	92	1.1	86			40 - 140	20
2,4-D	ND	100	86	85	1.2	80			40 - 140	20
% DCAA	66	%	69	68	1.5	65			30 - 150	20
% DCAA (Confirmation)	63	%	64	64	0.0	63			30 - 150	20
Comment:										
8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.										
QA/QC Batch 768366 (ug/Kg), QC Sample No: CS51752 2X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	33	92	93	1.1	95	96	1.0	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	87	87	0.0	85	81	4.8	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	74	%	95	98	3.1	91	89	2.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	87	%	101	105	3.9	99	85	15.2	30 - 150	30
% TCMX (Surrogate Rec)	75	%	92	97	5.3	108	106	1.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	72	%	84	88	4.7	96	95	1.0	30 - 150	30
QA/QC Batch 768585 (ug/L), QC Sample No: CS50000 10X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)										
Pesticides										
4,4' -DDD	ND	0.25	82	76	7.6	80			40 - 140	20

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4,4' -DDE	ND	0.25	86	85	1.2	87			40 - 140	20	
4,4' -DDT	ND	0.25	77	73	5.3	79			40 - 140	20	
a-BHC	ND	0.15	84	81	3.6	83			40 - 140	20	
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20	
Aldrin	ND	0.15	83	81	2.4	82			40 - 140	20	
b-BHC	ND	0.15	77	75	2.6	75			40 - 140	20	
Chlordane	ND	5.0	86	85	1.2	84			40 - 140	20	
d-BHC	ND	0.50	79	74	6.5	74			40 - 140	20	
Dieldrin	ND	0.15	87	87	0.0	89			40 - 140	20	
Endosulfan I	ND	0.50	86	83	3.6	81			40 - 140	20	
Endosulfan II	ND	0.50	91	90	1.1	91			40 - 140	20	
Endosulfan sulfate	ND	0.50	85	83	2.4	85			40 - 140	20	
Endrin	ND	0.50	96	94	2.1	97			40 - 140	20	
Endrin aldehyde	ND	0.50	85	80	6.1	83			40 - 140	20	
g-BHC	ND	0.15	84	84	0.0	83			40 - 140	20	
Heptachlor	ND	0.50	81	79	2.5	81			40 - 140	20	
Heptachlor epoxide	ND	0.50	79	78	1.3	78			40 - 140	20	
Methoxychlor	ND	0.50	75	74	1.3	79			40 - 140	20	
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20	
% DCBP	84	%	73	69	5.6	77			30 - 150	20	
% DCBP (Confirmation)	71	%	75	67	11.3	70			30 - 150	20	
% TCMX	68	%	71	69	2.9	67			30 - 150	20	
% TCMX (Confirmation)	66	%	70	67	4.4	65			30 - 150	20	

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 768367 (ug/Kg), QC Sample No: CS51752 2X (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Pesticides - Soil

4,4' -DDD	ND	1.7	100	94	6.2	70	90	25.0	40 - 140	30	
4,4' -DDE	ND	1.7	96	89	7.6	70	86	20.5	40 - 140	30	
4,4' -DDT	ND	1.7	100	93	7.3	71	88	21.4	40 - 140	30	
a-BHC	ND	1.0	78	74	5.3	59	79	29.0	40 - 140	30	
a-Chlordane	ND	3.3	91	84	8.0	67	82	20.1	40 - 140	30	
Aldrin	ND	1.0	85	80	6.1	66	78	16.7	40 - 140	30	
b-BHC	ND	1.0	81	77	5.1	59	64	8.1	40 - 140	30	
Chlordane	ND	33	98	91	7.4	73	84	14.0	40 - 140	30	
d-BHC	ND	3.3	85	79	7.3	30	76	86.8	40 - 140	30	r
Dieldrin	ND	1.0	106	99	6.8	75	93	21.4	40 - 140	30	
Endosulfan I	ND	3.3	97	90	7.5	62	86	32.4	40 - 140	30	r
Endosulfan II	ND	3.3	99	93	6.3	63	87	32.0	40 - 140	30	r
Endosulfan sulfate	ND	3.3	101	96	5.1	72	94	26.5	40 - 140	30	
Endrin	ND	3.3	115	106	8.1	79	97	20.5	40 - 140	30	
Endrin aldehyde	ND	3.3	85	59	36.1	36	66	58.8	40 - 140	30	r
Endrin ketone	ND	3.3	103	96	7.0	73	92	23.0	40 - 140	30	
g-BHC	ND	1.0	79	75	5.2	58	76	26.9	40 - 140	30	
g-Chlordane	ND	3.3	98	91	7.4	73	84	14.0	40 - 140	30	
Heptachlor	ND	3.3	83	78	6.2	65	76	15.6	40 - 140	30	
Heptachlor epoxide	ND	3.3	88	81	8.3	65	78	18.2	40 - 140	30	
Methoxychlor	ND	3.3	106	99	6.8	81	95	15.9	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	87	%	88	86	2.3	67	78	15.2	30 - 150	30	

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% DCBP (Confirmation)	80	%		96	91	5.3	74	89	18.4	30 - 150	30
% TCMX	66	%		71	67	5.8	69	74	7.0	30 - 150	30
% TCMX (Confirmation)	67	%		69	66	4.4	64	70	9.0	30 - 150	30

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 768357 (ug/kg), QC Sample No: CS51664 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	78	76	2.6	67	71	5.8	40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	76	74	2.7	67	71	5.8	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	57	57	0.0	49	54	9.7	40 - 140	30
2,3,4,6-tetrachlorophenol	ND	230	92	90	2.2	78	84	7.4	30 - 130	30
2,4,5-Trichlorophenol	ND	230	89	87	2.3	79	84	6.1	40 - 140	30
2,4,6-Trichlorophenol	ND	130	94	92	2.2	84	86	2.4	30 - 130	30
2,4-Dichlorophenol	ND	130	89	88	1.1	79	82	3.7	30 - 130	30
2,4-Dimethylphenol	ND	230	90	91	1.1	76	76	0.0	30 - 130	30
2,4-Dinitrophenol	ND	230	69	60	14.0	82	77	6.3	30 - 130	30
2,4-Dinitrotoluene	ND	130	97	93	4.2	82	88	7.1	30 - 130	30
2,6-Dinitrotoluene	ND	130	92	90	2.2	80	86	7.2	40 - 140	30
2-Chloronaphthalene	ND	230	83	82	1.2	73	76	4.0	40 - 140	30
2-Chlorophenol	ND	230	82	82	0.0	69	72	4.3	30 - 130	30
2-Methylnaphthalene	ND	230	81	79	2.5	71	74	4.1	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	86	84	2.4	74	77	4.0	40 - 140	30
2-Nitroaniline	ND	330	147	141	4.2	121	134	10.2	40 - 140	30
2-Nitrophenol	ND	230	84	84	0.0	74	80	7.8	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	84	83	1.2	75	76	1.3	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	89	84	5.8	78	81	3.8	40 - 140	30
3-Nitroaniline	ND	330	99	95	4.1	85	91	6.8	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	79	71	10.7	76	79	3.9	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	86	85	1.2	76	82	7.6	40 - 140	30
4-Chloro-3-methylphenol	ND	230	89	89	0.0	80	85	6.1	30 - 130	30
4-Chloroaniline	ND	230	86	86	0.0	72	78	8.0	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	86	83	3.6	75	80	6.5	40 - 140	30
4-Nitroaniline	ND	230	93	90	3.3	80	87	8.4	40 - 140	30
4-Nitrophenol	ND	230	99	97	2.0	89	91	2.2	30 - 130	30
Acenaphthene	ND	230	83	80	3.7	72	76	5.4	30 - 130	30
Acenaphthylene	ND	130	77	75	2.6	68	71	4.3	40 - 140	30
Acetophenone	ND	230	74	73	1.4	63	68	7.6	40 - 140	30
Anthracene	ND	230	87	84	3.5	76	83	8.8	40 - 140	30
Atrazine	ND	130	92	91	1.1	80	88	9.5	40 - 140	30
Benz(a)anthracene	ND	230	86	83	3.6	77	83	7.5	40 - 140	30
Benzaldehyde	ND	230	42	43	2.4	53	40	28.0	40 - 140	30
Benzo(a)pyrene	ND	130	90	87	3.4	80	85	6.1	40 - 140	30
Benzo(b)fluoranthene	ND	160	85	85	0.0	78	82	5.0	40 - 140	30
Benzo(ghi)perylene	ND	230	89	87	2.3	78	84	7.4	40 - 140	30
Benzo(k)fluoranthene	ND	230	87	83	4.7	76	81	6.4	40 - 140	30
Benzyl butyl phthalate	ND	230	93	91	2.2	80	87	8.4	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	76	77	1.3	66	71	7.3	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	71	71	0.0	60	65	8.0	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	92	89	3.3	79	86	8.5	40 - 140	30
Caprolactam	ND	230	81	81	0.0	71	78	9.4	40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Carbazole	ND	230	88	86	2.3	76	84	10.0	40 - 140	30	
Chrysene	ND	230	85	82	3.6	74	80	7.8	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	92	90	2.2	80	86	7.2	40 - 140	30	
Dibenzofuran	ND	230	85	83	2.4	73	78	6.6	40 - 140	30	
Diethyl phthalate	ND	230	90	85	5.7	77	82	6.3	40 - 140	30	
Dimethylphthalate	ND	230	88	84	4.7	76	81	6.4	40 - 140	30	
Di-n-butylphthalate	ND	670	91	88	3.4	78	86	9.8	40 - 140	30	
Di-n-octylphthalate	ND	230	97	94	3.1	83	90	8.1	40 - 140	30	
Fluoranthene	ND	230	88	85	3.5	78	84	7.4	40 - 140	30	
Fluorene	ND	230	88	84	4.7	76	81	6.4	40 - 140	30	
Hexachlorobenzene	ND	130	86	84	2.4	75	82	8.9	40 - 140	30	
Hexachlorobutadiene	ND	230	75	77	2.6	66	71	7.3	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	68	67	1.5	62	60	3.3	40 - 140	30	
Hexachloroethane	ND	130	72	71	1.4	61	66	7.9	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	88	86	2.3	78	84	7.4	40 - 140	30	
Isophorone	ND	130	72	71	1.4	62	66	6.3	40 - 140	30	
Naphthalene	ND	230	74	74	0.0	65	69	6.0	40 - 140	30	
Nitrobenzene	ND	130	76	74	2.7	64	69	7.5	40 - 140	30	
N-Nitrosodimethylamine	ND	230	63	65	3.1	53	55	3.7	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	77	75	2.6	65	69	6.0	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	83	81	2.4	72	77	6.7	40 - 140	30	
Pentachlorophenol	ND	230	86	80	7.2	77	84	8.7	30 - 130	30	
Phenanthrene	ND	130	84	82	2.4	75	81	7.7	40 - 140	30	
Phenol	ND	230	91	90	1.1	79	82	3.7	30 - 130	30	
Pyrene	ND	230	87	84	3.5	77	84	8.7	30 - 130	30	
% 2,4,6-Tribromophenol	104	%	91	88	3.4	79	85	7.3	30 - 130	30	
% 2-Fluorobiphenyl	81	%	80	78	2.5	69	73	5.6	30 - 130	30	
% 2-Fluorophenol	80	%	76	76	0.0	64	68	6.1	30 - 130	30	
% Nitrobenzene-d5	77	%	75	74	1.3	64	69	7.5	30 - 130	30	
% Phenol-d5	80	%	78	77	1.3	68	71	4.3	30 - 130	30	
% Terphenyl-d14	73	%	74	72	2.7	63	70	10.5	30 - 130	30	

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 768650 (ug/L), QC Sample No: CS51748 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	60	63	4.9	60			40 - 140	20	
2,4,5-Trichlorophenol	ND	17	76	81	6.4	81			40 - 140	20	
2,4,6-Trichlorophenol	ND	17	76	81	6.4	80			30 - 130	20	
2,4-Dinitrotoluene	ND	58	82	86	4.8	87			30 - 130	20	
2-Methylphenol (o-cresol)	ND	17	77	83	7.5	83			40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	17	67	71	5.8	67			30 - 130	20	
Hexachlorobenzene	ND	58	71	75	5.5	75			40 - 140	20	
Hexachlorobutadiene	ND	58	58	61	5.0	61			40 - 140	20	
Hexachloroethane	ND	58	56	62	10.2	57			40 - 140	20	
Nitrobenzene	ND	58	77	80	3.8	87			40 - 140	20	
Pentachlorophenol	ND	58	92	99	7.3	94			30 - 130	20	
Pyridine	ND	83	19	46	83.1	54			40 - 140	20	l,r
% 2,4,6-Tribromophenol	75	%	77	82	6.3	80			15 - 110	20	
% 2-Fluorobiphenyl	71	%	74	77	4.0	77			30 - 130	20	
% 2-Fluorophenol	62	%	63	67	6.2	65			15 - 110	20	

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Nitrobenzene-d5	75	%		70	74	5.6	74			30 - 130	20	
% Phenol-d5	56	%		57	59	3.4	58			15 - 110	20	
% Terphenyl-d14	76	%		76	79	3.9	77			30 - 130	20	

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 768629 (ug/kg), QC Sample No: CS50010 (CS51748, CS51749, CS51750, CS51751, CS51752, CS51753)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0		92	90	2.2	97	97	0.0	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0		97	98	1.0	102	99	3.0	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0		95	97	2.1	100	96	4.1	70 - 130	20	
1,1-Dichloroethane	ND	5.0		93	90	3.3	96	96	0.0	70 - 130	20	
1,1-Dichloroethene	ND	5.0		94	92	2.2	93	96	3.2	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0		98	94	4.2	101	95	6.1	70 - 130	20	
1,2,3-Trichloropropane	ND	5.0		88	89	1.1	92	90	2.2	70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0		99	95	4.1	101	96	5.1	70 - 130	20	
1,2,4-Trimethylbenzene	ND	1.0		94	91	3.2	100	97	3.0	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0		96	96	0.0	97	94	3.1	70 - 130	20	
1,2-Dibromoethane	ND	5.0		96	97	1.0	100	96	4.1	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0		94	92	2.2	98	95	3.1	70 - 130	20	
1,2-Dichloroethane	ND	5.0		92	93	1.1	99	94	5.2	70 - 130	20	
1,2-Dichloropropane	ND	5.0		93	93	0.0	99	96	3.1	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0		96	93	3.2	103	100	3.0	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0		97	95	2.1	101	97	4.0	70 - 130	20	
1,3-Dichloropropane	ND	5.0		95	96	1.0	100	97	3.0	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0		94	92	2.2	99	95	4.1	70 - 130	20	
1,4-dioxane	ND	100		90	90	0.0	105	94	11.1	70 - 130	20	
2-Hexanone	ND	25		84	87	3.5	88	82	7.1	70 - 130	20	
4-Methyl-2-pentanone	ND	25		87	91	4.5	92	88	4.4	70 - 130	20	
Acetone	ND	10		69	70	1.4	65	63	3.1	70 - 130	20	l,m
Benzene	ND	1.0		91	90	1.1	96	95	1.0	70 - 130	20	
Bromochloromethane	ND	5.0		94	92	2.2	98	95	3.1	70 - 130	20	
Bromodichloromethane	ND	5.0		96	95	1.0	99	96	3.1	70 - 130	20	
Bromoform	ND	5.0		100	101	1.0	98	98	0.0	70 - 130	20	
Bromomethane	ND	5.0		97	93	4.2	96	103	7.0	70 - 130	20	
Carbon Disulfide	ND	5.0		96	93	3.2	93	95	2.1	70 - 130	20	
Carbon tetrachloride	ND	5.0		92	90	2.2	95	98	3.1	70 - 130	20	
Chlorobenzene	ND	5.0		93	92	1.1	98	96	2.1	70 - 130	20	
Chloroethane	ND	5.0		105	100	4.9	101	112	10.3	70 - 130	20	
Chloroform	ND	5.0		93	91	2.2	98	97	1.0	70 - 130	20	
Chloromethane	ND	5.0		98	94	4.2	100	101	1.0	70 - 130	20	
cis-1,2-Dichloroethene	ND	5.0		94	91	3.2	98	96	2.1	70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0		96	97	1.0	101	97	4.0	70 - 130	20	
Cyclohexane	ND	5.0		94	91	3.2	97	97	0.0	70 - 130	20	
Dibromochloromethane	ND	3.0		100	98	2.0	101	98	3.0	70 - 130	20	
Dichlorodifluoromethane	ND	5.0		92	90	2.2	92	93	1.1	70 - 130	20	
Ethylbenzene	ND	1.0		91	90	1.1	97	96	1.0	70 - 130	20	
Isopropylbenzene	ND	1.0		94	91	3.2	100	101	1.0	70 - 130	20	
m&p-Xylene	ND	2.0		91	90	1.1	96	95	1.0	70 - 130	20	
Methyl ethyl ketone	ND	5.0		79	82	3.7	82	76	7.6	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0		93	92	1.1	93	91	2.2	70 - 130	20	
Methylacetate	ND	5.0		92	93	1.1	90	88	2.2	70 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methylcyclohexane	ND	5.0	93	89	4.4	96	96	0.0	70 - 130	20	
Methylene chloride	ND	5.0	87	85	2.3	88	88	0.0	70 - 130	20	
n-Butylbenzene	ND	1.0	100	94	6.2	105	102	2.9	70 - 130	20	
n-Propylbenzene	ND	1.0	94	91	3.2	100	99	1.0	70 - 130	20	
o-Xylene	ND	2.0	91	90	1.1	97	95	2.1	70 - 130	20	
p-Isopropyltoluene	ND	1.0	97	93	4.2	103	100	3.0	70 - 130	20	
sec-Butylbenzene	ND	1.0	96	91	5.3	101	101	0.0	70 - 130	20	
Styrene	ND	5.0	95	94	1.1	100	98	2.0	70 - 130	20	
tert-Butylbenzene	ND	1.0	93	89	4.4	100	99	1.0	70 - 130	20	
Tetrachloroethene	ND	5.0	93	93	0.0	99	97	2.0	70 - 130	20	
Toluene	ND	1.0	89	89	0.0	94	94	0.0	70 - 130	20	
trans-1,2-Dichloroethene	ND	5.0	94	91	3.2	93	94	1.1	70 - 130	20	
trans-1,3-Dichloropropene	ND	5.0	97	98	1.0	100	96	4.1	70 - 130	20	
Trichloroethene	ND	5.0	91	91	0.0	96	95	1.0	70 - 130	20	
Trichlorofluoromethane	ND	5.0	95	92	3.2	94	98	4.2	70 - 130	20	
Trichlorotrifluoroethane	ND	5.0	95	92	3.2	95	95	0.0	70 - 130	20	
Vinyl chloride	ND	5.0	93	90	3.3	93	94	1.1	70 - 130	20	
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	100	100	0.0	70 - 130	20	
% Bromofluorobenzene	98	%	101	103	2.0	101	101	0.0	70 - 130	20	
% Dibromofluoromethane	97	%	99	99	0.0	99	98	1.0	70 - 130	20	
% Toluene-d8	103	%	100	100	0.0	100	100	0.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 768629H (ug/kg), QC Sample No: CS50010 50X (CS51754 (50X) , CS51755 (50X))

Volatiles - Soil (High Level)

1,1,1-Trichloroethane	ND	250	97	93	4.2	89	94	5.5	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	250	110	107	2.8	103	108	4.7	70 - 130	20	
1,1,2-Trichloroethane	ND	250	106	104	1.9	100	105	4.9	70 - 130	20	
1,1-Dichloroethane	ND	250	99	95	4.1	94	98	4.2	70 - 130	20	
1,1-Dichloroethene	ND	250	97	92	5.3	89	92	3.3	70 - 130	20	
1,2,3-Trichlorobenzene	ND	250	109	108	0.9	101	109	7.6	70 - 130	20	
1,2,3-Trichloropropane	ND	250	93	92	1.1	90	94	4.3	70 - 130	20	
1,2,4-Trichlorobenzene	ND	250	113	110	2.7	101	111	9.4	70 - 130	20	
1,2,4-Trimethylbenzene	ND	250	103	100	3.0	97	102	5.0	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	250	99	96	3.1	89	95	6.5	70 - 130	20	
1,2-Dibromoethane	ND	250	104	101	2.9	97	103	6.0	70 - 130	20	
1,2-Dichlorobenzene	ND	250	103	101	2.0	97	102	5.0	70 - 130	20	
1,2-Dichloroethane	ND	250	102	101	1.0	98	102	4.0	70 - 130	20	
1,2-Dichloropropane	ND	250	103	100	3.0	98	103	5.0	70 - 130	20	
1,3,5-Trimethylbenzene	ND	250	104	101	2.9	98	102	4.0	70 - 130	20	
1,3-Dichlorobenzene	ND	250	108	105	2.8	100	106	5.8	70 - 130	20	
1,3-Dichloropropane	ND	250	105	102	2.9	99	104	4.9	70 - 130	20	
1,4-Dichlorobenzene	ND	250	106	103	2.9	98	103	5.0	70 - 130	20	
1,4-dioxane	ND	5000	101	93	8.2	90	95	5.4	70 - 130	20	
2-Hexanone	ND	1300	96	95	1.0	88	96	8.7	70 - 130	20	
4-Methyl-2-pentanone	ND	1300	99	98	1.0	93	98	5.2	70 - 130	20	
Acetone	ND	500	61	56	8.5	54	56	3.6	70 - 130	20	l,m
Benzene	ND	250	100	97	3.0	95	99	4.1	70 - 130	20	
Bromochloromethane	ND	250	101	98	3.0	96	101	5.1	70 - 130	20	
Bromodichloromethane	ND	250	100	97	3.0	89	97	8.6	70 - 130	20	
Bromoform	ND	250	103	97	6.0	82	93	12.6	70 - 130	20	
Bromomethane	ND	250	58	54	7.1	55	56	1.8	70 - 130	20	l,m

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Carbon Disulfide	ND	250	99	92	7.3	88	91	3.4	70 - 130	20	
Carbon tetrachloride	ND	250	90	84	6.9	71	79	10.7	70 - 130	20	
Chlorobenzene	ND	250	103	98	5.0	96	101	5.1	70 - 130	20	
Chloroethane	ND	250	17	15	12.5	16	16	0.0	70 - 130	20	l,m
Chloroform	ND	250	98	95	3.1	95	98	3.1	70 - 130	20	
Chloromethane	ND	250	102	97	5.0	99	100	1.0	70 - 130	20	
cis-1,2-Dichloroethene	ND	250	101	98	3.0	97	100	3.0	70 - 130	20	
cis-1,3-Dichloropropene	ND	250	103	101	2.0	94	101	7.2	70 - 130	20	
Cyclohexane	ND	250	102	97	5.0	97	99	2.0	70 - 130	20	
Dibromochloromethane	ND	150	101	96	5.1	85	94	10.1	70 - 130	20	
Dichlorodifluoromethane	ND	250	96	92	4.3	93	93	0.0	70 - 130	20	
Ethylbenzene	ND	250	101	96	5.1	94	99	5.2	70 - 130	20	
Isopropylbenzene	ND	250	101	97	4.0	96	99	3.1	70 - 130	20	
m&p-Xylene	ND	250	101	97	4.0	95	99	4.1	70 - 130	20	
Methyl ethyl ketone	ND	250	88	86	2.3	83	87	4.7	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	250	94	91	3.2	87	92	5.6	70 - 130	20	
Methylacetate	ND	250	90	87	3.4	81	90	10.5	70 - 130	20	
Methylcyclohexane	ND	250	104	99	4.9	98	101	3.0	70 - 130	20	
Methylene chloride	ND	250	89	85	4.6	83	88	5.8	70 - 130	20	
n-Butylbenzene	ND	250	112	108	3.6	102	108	5.7	70 - 130	20	
n-Propylbenzene	ND	250	103	99	4.0	97	101	4.0	70 - 130	20	
o-Xylene	ND	250	100	97	3.0	95	99	4.1	70 - 130	20	
p-Isopropyltoluene	ND	250	107	103	3.8	100	104	3.9	70 - 130	20	
sec-Butylbenzene	ND	250	104	101	2.9	99	102	3.0	70 - 130	20	
Styrene	ND	250	106	103	2.9	100	105	4.9	70 - 130	20	
tert-Butylbenzene	ND	250	102	98	4.0	96	100	4.1	70 - 130	20	
Tetrachloroethene	ND	250	106	102	3.8	99	104	4.9	70 - 130	20	
Toluene	ND	250	98	95	3.1	94	97	3.1	70 - 130	20	
trans-1,2-Dichloroethene	ND	250	97	92	5.3	89	94	5.5	70 - 130	20	
trans-1,3-Dichloropropene	ND	250	104	102	1.9	92	100	8.3	70 - 130	20	
Trichloroethene	ND	250	102	98	4.0	95	99	4.1	70 - 130	20	
Trichlorofluoromethane	ND	250	13	12	8.0	13	12	8.0	70 - 130	20	l,m
Trichlorotrifluoroethane	ND	250	101	95	6.1	94	97	3.1	70 - 130	20	
Vinyl chloride	ND	250	87	82	5.9	84	86	2.4	70 - 130	20	
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	101	101	0.0	70 - 130	20	
% Bromofluorobenzene	101	%	105	107	1.9	105	105	0.0	70 - 130	20	
% Dibromofluoromethane	96	%	99	101	2.0	99	100	1.0	70 - 130	20	
% Toluene-d8	102	%	99	100	1.0	99	100	1.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 768621 (ug/L), QC Sample No: CS50976 (CS51748 (10X) , CS51749 (10X) , CS51750 (10X) , CS51751 (10X) , CS51752 (10X) , CS51753 (10X) , CS51754 (10X) , CS51755 (10X) , CS51756 (10X) , CS51757 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0	98	95	3.1	105	112	6.5	70 - 130	20	
1,2-Dichloroethane	ND	0.60	103	102	1.0	106	114	7.3	70 - 130	20	
1,4-Dichlorobenzene	ND	1.0	102	102	0.0	96	104	8.0	70 - 130	20	
Benzene	ND	0.70	102	101	1.0	109	119	8.8	70 - 130	20	
Carbon tetrachloride	ND	5.0	99	97	2.0	102	116	12.8	70 - 130	20	
Chlorobenzene	ND	1.0	104	103	1.0	104	113	8.3	70 - 130	20	
Chloroform	ND	5.0	105	102	2.9	111	120	7.8	70 - 130	20	
Methyl ethyl ketone	ND	5.0	109	105	3.7	115	124	7.5	70 - 130	20	
Tetrachloroethene	ND	1.0	103	102	1.0	100	108	7.7	70 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichloroethene	ND	5.0	103	101	2.0	106	117	9.9	70 - 130	20	
Vinyl chloride	ND	5.0	104	101	2.9	114	124	8.4	70 - 130	20	
% 1,2-dichlorobenzene-d4	98	%	100	101	1.0	103	101	2.0	70 - 130	20	
% Bromofluorobenzene	96	%	101	102	1.0	101	101	0.0	70 - 130	20	
% Dibromofluoromethane	101	%	99	99	0.0	99	98	1.0	70 - 130	20	
% Toluene-d8	99	%	99	100	1.0	100	100	0.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 768828 (ug/kg), QC Sample No: CS51258 (CS51755)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	95	102	7.1	91	93	2.2	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	97	105	7.9	94	96	2.1	70 - 130	20	
1,1-Dichloroethane	ND	5.0	95	102	7.1	95	95	0.0	70 - 130	20	
1,1-Dichloroethene	ND	5.0	99	107	7.8	91	93	2.2	70 - 130	20	
1,2,3-Trichloropropane	ND	5.0	95	100	5.1	98	103	5.0	70 - 130	20	
1,2,4-Trimethylbenzene	ND	1.0	98	104	5.9	77	85	9.9	70 - 130	20	
1,2-Dibromoethane	ND	5.0	99	105	5.9	93	96	3.2	70 - 130	20	
1,2-Dichloroethane	ND	5.0	94	101	7.2	94	94	0.0	70 - 130	20	
1,2-Dichloropropane	ND	5.0	95	102	7.1	94	96	2.1	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	100	107	6.8	84	95	12.3	70 - 130	20	
1,3-Dichloropropane	ND	5.0	97	104	7.0	97	100	3.0	70 - 130	20	
1,4-dioxane	ND	100	94	106	12.0	107	112	4.6	70 - 130	20	
2-Hexanone	ND	25	97	102	5.0	86	88	2.3	70 - 130	20	
4-Methyl-2-pentanone	ND	25	98	103	5.0	90	92	2.2	70 - 130	20	
Acetone	ND	10	80	83	3.7	88	89	1.1	70 - 130	20	
Benzene	ND	1.0	94	100	6.2	91	93	2.2	70 - 130	20	
Bromochloromethane	ND	5.0	96	102	6.1	92	94	2.2	70 - 130	20	
Bromodichloromethane	ND	5.0	97	103	6.0	94	96	2.1	70 - 130	20	
Bromoform	ND	5.0	103	111	7.5	88	96	8.7	70 - 130	20	
Bromomethane	ND	5.0	102	109	6.6	96	98	2.1	70 - 130	20	
Carbon Disulfide	ND	5.0	101	109	7.6	75	83	10.1	70 - 130	20	
Carbon tetrachloride	ND	5.0	99	105	5.9	86	90	4.5	70 - 130	20	
Chlorobenzene	ND	5.0	96	102	6.1	85	91	6.8	70 - 130	20	
Chloroethane	ND	5.0	107	113	5.5	102	105	2.9	70 - 130	20	
Chloroform	ND	5.0	95	102	7.1	93	94	1.1	70 - 130	20	
Chloromethane	ND	5.0	100	106	5.8	100	98	2.0	70 - 130	20	
cis-1,2-Dichloroethene	ND	5.0	96	104	8.0	91	92	1.1	70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0	98	106	7.8	91	93	2.2	70 - 130	20	
Cyclohexane	ND	5.0	99	105	5.9	77	84	8.7	70 - 130	20	
Dibromochloromethane	ND	3.0	99	106	6.8	94	100	6.2	70 - 130	20	
Dichlorodifluoromethane	ND	5.0	93	99	6.3	86	87	1.2	70 - 130	20	
Ethylbenzene	ND	1.0	94	101	7.2	83	90	8.1	70 - 130	20	
m&p-Xylene	ND	2.0	96	102	6.1	79	85	7.3	70 - 130	20	
Methyl ethyl ketone	ND	5.0	93	99	6.3	79	80	1.3	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0	95	104	9.0	97	98	1.0	70 - 130	20	
Methylacetate	ND	5.0	100	106	5.8	98	92	6.3	70 - 130	20	
Methylcyclohexane	ND	5.0	99	104	4.9	57	65	13.1	70 - 130	20	m
Methylene chloride	ND	5.0	90	97	7.5	92	93	1.1	70 - 130	20	
n-Butylbenzene	ND	1.0	107	112	4.6	60	69	14.0	70 - 130	20	m
n-Propylbenzene	ND	1.0	100	105	4.9	83	92	10.3	70 - 130	20	
o-Xylene	ND	2.0	94	100	6.2	83	89	7.0	70 - 130	20	
p-Isopropyltoluene	ND	1.0	102	108	5.7	68	79	15.0	70 - 130	20	m

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
sec-Butylbenzene	ND	1.0	101	107	5.8	67	76	12.6	70 - 130	20	m
Styrene	ND	5.0	97	104	7.0	83	88	5.8	70 - 130	20	
tert-Butylbenzene	ND	1.0	97	103	6.0	74	84	12.7	70 - 130	20	
Tetrachloroethene	ND	5.0	97	104	7.0	97	105	7.9	70 - 130	20	
Toluene	ND	1.0	93	99	6.3	85	89	4.6	70 - 130	20	
trans-1,2-Dichloroethene	ND	5.0	98	106	7.8	84	90	6.9	70 - 130	20	
trans-1,3-Dichloropropene	ND	5.0	99	108	8.7	86	90	4.5	70 - 130	20	
Trichloroethene	ND	5.0	98	106	7.8	98	106	7.8	70 - 130	20	
Trichlorofluoromethane	ND	5.0	102	109	6.6	93	95	2.1	70 - 130	20	
Trichlorotrifluoroethane	ND	5.0	99	107	7.8	87	92	5.6	70 - 130	20	
Vinyl chloride	ND	5.0	97	104	7.0	90	92	2.2	70 - 130	20	
% 1,2-dichlorobenzene-d4	101	%	101	100	1.0	99	100	1.0	70 - 130	20	
% Bromofluorobenzene	98	%	100	100	0.0	96	97	1.0	70 - 130	20	
% Dibromofluoromethane	97	%	97	98	1.0	99	98	1.0	70 - 130	20	
% Toluene-d8	104	%	100	100	0.0	100	100	0.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 768602 (ug/kg), QC Sample No: CS51756 (CS51756, CS51757)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	100	109	8.6	95	99	4.1	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0	102	107	4.8	129	125	3.1	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	102	105	2.9	94	91	3.2	70 - 130	20	
1,1-Dichloroethane	ND	5.0	98	106	7.8	96	100	4.1	70 - 130	20	
1,1-Dichloroethene	ND	5.0	103	109	5.7	93	98	5.2	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	107	109	1.9	37	33	11.4	70 - 130	20	m
1,2,3-Trichloropropane	ND	5.0	94	101	7.2	133	133	0.0	70 - 130	20	m
1,2,4-Trichlorobenzene	ND	5.0	107	108	0.9	47	41	13.6	70 - 130	20	m
1,2,4-Trimethylbenzene	ND	1.0	100	102	2.0	91	87	4.5	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	105	111	5.6	108	107	0.9	70 - 130	20	
1,2-Dibromoethane	ND	5.0	102	104	1.9	95	97	2.1	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	104	107	2.8	84	80	4.9	70 - 130	20	
1,2-Dichloroethane	ND	5.0	104	106	1.9	98	94	4.2	70 - 130	20	
1,2-Dichloropropane	ND	5.0	103	105	1.9	95	95	0.0	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	101	104	2.9	95	89	6.5	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	101	104	2.9	84	79	6.1	70 - 130	20	
1,3-Dichloropropane	ND	5.0	100	100	0.0	99	101	2.0	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	106	109	2.8	87	80	8.4	70 - 130	20	
1,4-dioxane	ND	100	101	99	2.0	110	112	1.8	70 - 130	20	
2-Hexanone	ND	25	93	95	2.1	82	82	0.0	70 - 130	20	
4-Methyl-2-pentanone	ND	25	102	109	6.6	92	92	0.0	70 - 130	20	
Acetone	ND	10	96	103	7.0	94	94	0.0	70 - 130	20	
Benzene	ND	1.0	100	102	2.0	92	90	2.2	70 - 130	20	
Bromochloromethane	ND	5.0	99	106	6.8	95	98	3.1	70 - 130	20	
Bromodichloromethane	ND	5.0	104	107	2.8	93	93	0.0	70 - 130	20	
Bromoform	ND	5.0	97	98	1.0	83	82	1.2	70 - 130	20	
Bromomethane	ND	5.0	103	111	7.5	90	94	4.3	70 - 130	20	
Carbon Disulfide	ND	5.0	100	109	8.6	81	83	2.4	70 - 130	20	
Carbon tetrachloride	ND	5.0	99	109	9.6	88	90	2.2	70 - 130	20	
Chlorobenzene	ND	5.0	102	103	1.0	90	88	2.2	70 - 130	20	
Chloroethane	ND	5.0	106	117	9.9	100	104	3.9	70 - 130	20	
Chloroform	ND	5.0	97	105	7.9	94	98	4.2	70 - 130	20	
Chloromethane	ND	5.0	110	119	7.9	102	107	4.8	70 - 130	20	

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,2-Dichloroethene	ND	5.0	101	109	7.6	94	97	3.1	70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0	105	107	1.9	89	86	3.4	70 - 130	20	
Cyclohexane	ND	5.0	96	106	9.9	72	72	0.0	70 - 130	20	
Dibromochloromethane	ND	3.0	101	102	1.0	96	96	0.0	70 - 130	20	
Dichlorodifluoromethane	ND	5.0	106	115	8.1	94	99	5.2	70 - 130	20	
Ethylbenzene	ND	1.0	99	100	1.0	87	85	2.3	70 - 130	20	
Isopropylbenzene	ND	1.0	104	108	3.8	111	106	4.6	70 - 130	20	
m&p-Xylene	ND	2.0	98	100	2.0	83	80	3.7	70 - 130	20	
Methyl ethyl ketone	ND	5.0	88	96	8.7	79	87	9.6	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0	96	102	6.1	93	102	9.2	70 - 130	20	
Methylacetate	ND	5.0	97	103	6.0	96	93	3.2	70 - 130	20	
Methylcyclohexane	ND	5.0	107	113	5.5	55	51	7.5	70 - 130	20	m
Methylene chloride	ND	5.0	94	100	6.2	95	100	5.1	70 - 130	20	
n-Butylbenzene	ND	1.0	111	113	1.8	63	57	10.0	70 - 130	20	m
n-Propylbenzene	ND	1.0	103	108	4.7	99	94	5.2	70 - 130	20	
o-Xylene	ND	2.0	100	101	1.0	85	83	2.4	70 - 130	20	
p-Isopropyltoluene	ND	1.0	104	107	2.8	69	67	2.9	70 - 130	20	m
sec-Butylbenzene	ND	1.0	101	106	4.8	75	70	6.9	70 - 130	20	
Styrene	ND	5.0	99	100	1.0	80	77	3.8	70 - 130	20	
tert-Butylbenzene	ND	1.0	102	106	3.8	89	84	5.8	70 - 130	20	
Tetrachloroethene	ND	5.0	109	112	2.7	80	77	3.8	70 - 130	20	
Toluene	ND	1.0	102	106	3.8	88	85	3.5	70 - 130	20	
trans-1,2-Dichloroethene	ND	5.0	102	105	2.9	92	96	4.3	70 - 130	20	
trans-1,3-Dichloropropene	ND	5.0	104	106	1.9	81	80	1.2	70 - 130	20	
Trichloroethene	ND	5.0	103	106	2.9	93	89	4.4	70 - 130	20	
Trichlorofluoromethane	ND	5.0	102	111	8.5	95	100	5.1	70 - 130	20	
Trichlorotrifluoroethane	ND	5.0	103	112	8.4	89	92	3.3	70 - 130	20	
Vinyl chloride	ND	5.0	102	110	7.5	95	98	3.1	70 - 130	20	
% 1,2-dichlorobenzene-d4	96	%	101	100	1.0	102	98	4.0	70 - 130	20	
% Bromofluorobenzene	100	%	100	97	3.0	86	87	1.2	70 - 130	20	
% Dibromofluoromethane	109	%	96	104	8.0	100	103	3.0	70 - 130	20	
% Toluene-d8	91	%	103	103	0.0	96	95	1.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 768652H (ug/kg), QC Sample No: CS52923 50X (CS51750 (50X))

Volatiles - Soil (High Level)

1,1,2,2-Tetrachloroethane	ND	250	109	111	1.8	97	100	3.0	70 - 130	20	
1,2,3-Trichlorobenzene	ND	250	117	118	0.9	109	111	1.8	70 - 130	20	
1,2,4-Trichlorobenzene	ND	250	121	123	1.6	114	117	2.6	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	250	122	126	3.2	106	108	1.9	70 - 130	20	
1,2-Dichlorobenzene	ND	250	103	104	1.0	98	101	3.0	70 - 130	20	
1,3-Dichlorobenzene	ND	250	101	104	2.9	99	103	4.0	70 - 130	20	
1,4-Dichlorobenzene	ND	250	100	103	3.0	98	101	3.0	70 - 130	20	
Isopropylbenzene	ND	250	107	112	4.6	109	115	5.4	70 - 130	20	
% 1,2-dichlorobenzene-d4	104	%	103	101	2.0	102	100	2.0	70 - 130	20	
% Bromofluorobenzene	99	%	101	100	1.0	98	100	2.0	70 - 130	20	
% Dibromofluoromethane	98	%	98	98	0.0	94	92	2.2	70 - 130	20	
% Toluene-d8	98	%	101	101	0.0	99	100	1.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Data

SDG I.D.: GCS51748

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD	-	Relative Percent Difference
LCS	-	Laboratory Control Sample
LCSD	-	Laboratory Control Sample Duplicate
MS	-	Matrix Spike
MS Dup	-	Matrix Spike Duplicate
NC	-	No Criteria
Intf	-	Interference
(ISO)	-	Isotope Dilution

Phyllis Shiller, Laboratory Director
February 05, 2025

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51748	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	4100	290	1000	1000	ug/Kg
CS51748	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	290	500	500	ug/Kg
CS51748	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3700	290	1000	1000	ug/Kg
CS51748	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4100	290	1000	1000	ug/Kg
CS51748	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	5100	290	1000	1000	ug/Kg
CS51748	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	460	210	330	330	ug/Kg
CS51748	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	290	500	500	ug/Kg
CS51748	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	460	210	330	330	ug/Kg
CS51748	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	290	800	800	ug/Kg
CS51748	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5100	290	1000	1000	ug/Kg
CS51748	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3700	290	1000	1000	ug/Kg
CS51748	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4100	290	1000	1000	ug/Kg
CS51748	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	290	1000	1000	ug/Kg
CS51748	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.7	2.5	3.3	3.3	ug/Kg
CS51748	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.58	0.03	0.18	0.18	mg/Kg
CS51748	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	323	0.41	63	63	mg/Kg
CS51748	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	282	0.8	109	109	mg/Kg
CS51749	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	3600	270	1000	1000	ug/Kg
CS51749	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3600	270	1000	1000	ug/Kg
CS51749	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1800	270	500	500	ug/Kg
CS51749	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4400	270	1000	1000	ug/Kg
CS51749	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	450	190	330	330	ug/Kg
CS51749	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3700	270	1000	1000	ug/Kg
CS51749	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	270	1000	1000	ug/Kg
CS51749	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1800	270	500	500	ug/Kg
CS51749	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	800	800	ug/Kg
CS51749	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4400	270	1000	1000	ug/Kg
CS51749	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3600	270	1000	1000	ug/Kg
CS51749	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3700	270	1000	1000	ug/Kg
CS51749	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	450	190	330	330	ug/Kg
CS51749	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	558	0.38	400	400	mg/Kg
CS51749	BA-SM	Barium	NY / 375-6.8 Metals / Residential Restricted	558	0.38	400	400	mg/Kg
CS51749	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	558	0.38	350	350	mg/Kg
CS51749	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	63.8	0.8	50	50	mg/kg
CS51749	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.75	0.03	0.18	0.18	mg/Kg
CS51749	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	5050	3.8	1000	1000	mg/Kg
CS51749	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	5050	3.8	400	400	mg/Kg
CS51749	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	5050	3.8	63	63	mg/Kg
CS51749	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	8.33	0.10	5	5	mg/L
CS51749	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	444	0.8	109	109	mg/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51750	$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	240	50	50	50	ug/kg
CS51750	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1300	270	1000	1000	ug/Kg
CS51750	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	270	1000	1000	ug/Kg
CS51750	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	270	1000	1000	ug/Kg
CS51750	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	770	270	500	500	ug/Kg
CS51750	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	1000	1000	ug/Kg
CS51750	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	1000	1000	ug/Kg
CS51750	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	770	270	500	500	ug/Kg
CS51750	$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	11	2.3	3.3	3.3	ug/Kg
CS51750	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	18	2.3	3.3	3.3	ug/Kg
CS51750	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	45	2.3	3.3	3.3	ug/Kg
CS51750	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	86.7	0.7	50	50	mg/kg
CS51750	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.42	0.74	0.81	0.81	mg/Kg
CS51750	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.42	0.74	0.18	0.18	mg/Kg
CS51750	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	260	0.37	63	63	mg/Kg
CS51750	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	209	0.7	109	109	mg/Kg
CS51751	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1200	260	1000	1000	ug/Kg
CS51751	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	260	1000	1000	ug/Kg
CS51751	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	260	1000	1000	ug/Kg
CS51751	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	260	1000	1000	ug/Kg
CS51751	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	710	260	500	500	ug/Kg
CS51751	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	1000	1000	ug/Kg
CS51751	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	260	1000	1000	ug/Kg
CS51751	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	260	1000	1000	ug/Kg
CS51751	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	710	260	500	500	ug/Kg
CS51751	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	54	2.3	3.3	3.3	ug/Kg
CS51751	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	65	2.3	3.3	3.3	ug/Kg
CS51751	$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	28	2.3	3.3	3.3	ug/Kg
CS51751	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	98.7	0.7	50	50	mg/kg
CS51751	HG-SM	Mercury	NY / 375-6.8 Metals / Commercial	4.95	0.69	2.8	2.8	mg/Kg
CS51751	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	4.95	0.69	0.81	0.81	mg/Kg
CS51751	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	4.95	0.69	0.18	0.18	mg/Kg
CS51751	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	339	0.33	63	63	mg/Kg
CS51751	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	461	0.7	109	109	mg/Kg
CS51752	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	3500	270	1000	1000	ug/Kg
CS51752	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4000	270	1000	1000	ug/Kg
CS51752	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	450	190	330	330	ug/Kg
CS51752	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3200	270	1000	1000	ug/Kg
CS51752	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	270	500	500	ug/Kg
CS51752	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3500	270	1000	1000	ug/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51752	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	450	190	330	330	ug/Kg
CS51752	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	270	500	500	ug/Kg
CS51752	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	800	800	ug/Kg
CS51752	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3500	270	1000	1000	ug/Kg
CS51752	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3200	270	1000	1000	ug/Kg
CS51752	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3000	270	1000	1000	ug/Kg
CS51752	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4000	270	1000	1000	ug/Kg
CS51752	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	75.9	0.35	63	63	mg/Kg
CS51753	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	9400	1400	5600	5600	ug/Kg
CS51753	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Commercial	7800	270	5600	5600	ug/Kg
CS51753	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	1100	200	560	560	ug/Kg
CS51753	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	8000	1400	1000	1000	ug/Kg
CS51753	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4600	270	500	500	ug/Kg
CS51753	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	200	330	330	ug/Kg
CS51753	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	7000	270	3900	3900	ug/Kg
CS51753	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	9400	1400	1000	1000	ug/Kg
CS51753	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	8000	1400	1000	1000	ug/Kg
CS51753	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	7800	270	1000	1000	ug/Kg
CS51753	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	9400	1400	1000	1000	ug/Kg
CS51753	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3200	270	800	800	ug/Kg
CS51753	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7000	270	1000	1000	ug/Kg
CS51753	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7800	270	1000	1000	ug/Kg
CS51753	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	200	330	330	ug/Kg
CS51753	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4600	270	500	500	ug/Kg
CS51753	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	8000	1400	1000	1000	ug/Kg
CS51753	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.36	0.03	0.18	0.18	mg/Kg
CS51753	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	34.1	0.42	30	30	mg/Kg
CS51753	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	145	0.42	63	63	mg/Kg
CS51754	$8260_TCL_SM	Ethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	2300	750	1000	1000	ug/kg
CS51754	$8260_TCL_SM	Total Xylenes	NY / 375-6.8 Volatiles / Unrestricted Use Soil	4300	250	260	260	ug/kg
CS51754	$8270_TCLR	3&4-Methylphenol (m&p-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	710	580	330	330	ug/Kg
CS51754	$8270_TCLR	Naphthalene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	44000	4100	12000	12000	ug/Kg
CS51754	$8270_TCLR	Acenaphthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	36000	4100	20000	20000	ug/Kg
CS51754	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Commercial	22000	4100	5600	5600	ug/Kg
CS51754	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	22000	4100	1000	1000	ug/Kg
CS51754	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	22000	4100	1000	1000	ug/Kg
CS51754	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	20000	4100	3900	3900	ug/Kg
CS51754	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	20000	4100	1000	1000	ug/Kg
CS51754	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	15000	4100	5600	5600	ug/Kg
CS51754	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	15000	4100	1000	1000	ug/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51754	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	15000	4100	1000	1000	ug/Kg
CS51754	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4700	410	3900	3900	ug/Kg
CS51754	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4700	410	800	800	ug/Kg
CS51754	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	18000	4100	1000	1000	ug/Kg
CS51754	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	18000	4100	1000	1000	ug/Kg
CS51754	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	18000	4100	1000	1000	ug/Kg
CS51754	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	5500	410	500	500	ug/Kg
CS51754	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5500	410	500	500	ug/Kg
CS51754	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	1900	290	560	560	ug/Kg
CS51754	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1900	290	330	330	ug/Kg
CS51754	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1900	290	330	330	ug/Kg
CS51754	$NYADDSM	1,2,4-Trimethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	7200	750	3600	3600	ug/Kg
CS51754	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.7	3.5	3.3	3.3	ug/Kg
CS51754	AG-SM	Silver	NY / 375-6.8 Metals / Unrestricted Use Soil	9.24	0.56	2	2	mg/Kg
CS51754	AS-SM	Arsenic	NY / 375-6.8 Metals / Commercial	33.9	1.1	16	16	mg/Kg
CS51754	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	33.9	1.1	16	16	mg/Kg
CS51754	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	33.9	1.1	13	13	mg/Kg
CS51754	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	839	0.56	400	400	mg/Kg
CS51754	BA-SM	Barium	NY / 375-6.8 Metals / Residential Restricted	839	0.56	400	400	mg/Kg
CS51754	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	839	0.56	350	350	mg/Kg
CS51754	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	2.54	0.56	2.5	2.5	mg/Kg
CS51754	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	268	1.1	50	50	mg/kg
CS51754	HG-SM	Mercury	NY / 375-6.8 Metals / Commercial	4.47	0.42	2.8	2.8	mg/Kg
CS51754	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	4.47	0.42	0.81	0.81	mg/Kg
CS51754	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	4.47	0.42	0.18	0.18	mg/Kg
CS51754	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	35.9	0.56	30	30	mg/Kg
CS51754	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	1100	0.56	1000	1000	mg/Kg
CS51754	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	1100	0.56	400	400	mg/Kg
CS51754	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	1100	0.56	63	63	mg/Kg
CS51754	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	5.20	0.10	5	5	mg/L
CS51754	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	932	1.1	109	109	mg/Kg
CS51755	$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	58	50	50	50	ug/kg
CS51755	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	2300	270	1000	1000	ug/Kg
CS51755	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2700	270	1000	1000	ug/Kg
CS51755	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2300	270	1000	1000	ug/Kg
CS51755	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	270	500	500	ug/Kg
CS51755	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2500	270	1000	1000	ug/Kg
CS51755	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	270	1000	1000	ug/Kg
CS51755	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	500	500	ug/Kg
CS51755	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	270	1000	1000	ug/Kg
CS51755	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	270	1000	1000	ug/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51755	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	270	1000	1000	ug/Kg
CS51755	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	860	270	800	800	ug/Kg
CS51755	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.83	0.03	0.81	0.81	mg/Kg
CS51755	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.83	0.03	0.18	0.18	mg/Kg
CS51755	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	133	0.41	63	63	mg/Kg
CS51756	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	11000	1300	5600	5600	ug/Kg
CS51756	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Commercial	9900	1300	5600	5600	ug/Kg
CS51756	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	7600	1300	1000	1000	ug/Kg
CS51756	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	1300	180	560	560	ug/Kg
CS51756	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4700	260	500	500	ug/Kg
CS51756	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	180	330	330	ug/Kg
CS51756	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	8400	1300	3900	3900	ug/Kg
CS51756	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	11000	1300	1000	1000	ug/Kg
CS51756	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	7600	1300	1000	1000	ug/Kg
CS51756	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	9900	1300	1000	1000	ug/Kg
CS51756	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	11000	1300	1000	1000	ug/Kg
CS51756	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3700	260	800	800	ug/Kg
CS51756	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	8400	1300	1000	1000	ug/Kg
CS51756	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	9900	1300	1000	1000	ug/Kg
CS51756	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	180	330	330	ug/Kg
CS51756	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4700	260	500	500	ug/Kg
CS51756	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7600	1300	1000	1000	ug/Kg
CS51756	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	30	2.2	3.3	3.3	ug/Kg
CS51756	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	24	2.2	3.3	3.3	ug/Kg
CS51756	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.88	0.03	0.81	0.81	mg/Kg
CS51756	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.88	0.03	0.18	0.18	mg/Kg
CS51756	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	212	0.34	63	63	mg/Kg
CS51756	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	134	0.7	109	109	mg/Kg
CS51757	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	4600	270	1000	1000	ug/Kg
CS51757	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4600	270	1000	1000	ug/Kg
CS51757	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	4300	270	3900	3900	ug/Kg
CS51757	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4300	270	1000	1000	ug/Kg
CS51757	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Commercial	6400	270	5600	5600	ug/Kg
CS51757	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	6400	270	1000	1000	ug/Kg
CS51757	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	6400	270	1000	1000	ug/Kg
CS51757	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	270	800	800	ug/Kg
CS51757	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	5300	270	1000	1000	ug/Kg
CS51757	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	5300	270	1000	1000	ug/Kg
CS51757	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5300	270	1000	1000	ug/Kg
CS51757	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3000	270	500	500	ug/Kg

Wednesday, February 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCS51748 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS51757	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3000	270	500	500	ug/Kg
CS51757	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Commercial	650	190	560	560	ug/Kg
CS51757	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	650	190	330	330	ug/Kg
CS51757	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	650	190	330	330	ug/Kg
CS51757	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	11	2.3	3.3	3.3	ug/Kg
CS51757	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	14	2.3	3.3	3.3	ug/Kg
CS51757	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	56.9	0.7	50	50	mg/kg
CS51757	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.13	0.03	0.81	0.81	mg/Kg
CS51757	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.13	0.03	0.18	0.18	mg/Kg
CS51757	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	327	0.35	63	63	mg/Kg
CS51757	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	209	0.7	109	109	mg/Kg

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Comments

February 05, 2025 SDG I.D.: GCS51748

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

ETPH Narration

AU-FID1 01/28/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51756, CS51757

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CS51748, CS51749, CS51750, CS51757
Preceding CC 128A055 - % COD (surr) 31%L (30%)
Succeeding CC 128A069 - None.

The ETPH method allows for one discrimination check standard outlier.

Herbicide Narration

AU-ECD2 01/29/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, cs51754, CS51755, CS51756, CS51757

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CS51748, CS51749, CS51750, CS51751
Preceding CC 129B003A - 2,4-DB (12) 21%L (20%)
Succeeding CC 129B015 - None.

PEST Narration

AU-ECD33 01/29/25-1: CS51748, CS51750

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CS51748
Preceding CC 129B057 - % DCBP 21%L (20%)
Succeeding CC 129B067 - % DCBP 34%L (20%), Methoxychlor 25%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD35 01/30/25-1: CS51756, CS51757

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CS51756, CS51757
Preceding CC 130B004 - None.
Succeeding CC 130B018 - d-BHC 25%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 01/30/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755
Preceding CC 130B004 - Endosulfan II 27%H (20%)
Succeeding CC 130B018 - Endosulfan I 21%H (20%), Endosulfan II 30%H (20%), Endrin aldehyde 25%H (20%)

SVOA Narration

CHEM19 01/30/25-1: CS51754, CS51755, CS51756, CS51757

Environmental Laboratories, Inc.
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NY # 11301

Analysis Comments

February 05, 2025 SDG I.D.: GCS51748

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.087 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: 3&4-Methylphenol (m&p-Cresol) 22%H (20%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.087 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM36 01/28/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755, CS51756, CS51757
The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.072 (0.1), Hexachlorobenzene 0.089 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.076 (0.1), Hexachlorobenzene 0.084 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM36 01/30/25-1: CS51752, CS51753
The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.089 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.082 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

VOA Narration

CHEM03 01/28/25-1: CS51748, CS51749, CS51750, CS51751, CS51752, CS51753, CS51754, CS51755
The following Initial Calibration compounds did not meet RSD% criteria: Acetone 38% (20%), Chloroethane 26% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Acetone 24%L (20%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM03 01/29/25-1: CS51755
The following Initial Calibration compounds did not meet RSD% criteria: Acetone 38% (20%), Chloroethane 26% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Comments

February 05, 2025 SDG I.D.: GCS51748

CHEM18 01/28/25-1: CS51756, CS51757

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 21% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM26 01/28/25-2: CS51750

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 21% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

February 05, 2025

SDG I.D.: GCS51748

The samples in this delivery group were received at 2.0°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐

PHOENIX Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

Temp 2.0°C Pg 1 of 2

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Contact Options:
☐ Phone:
☐ Fax:
☑ Email: empendergast@aol.com

Customer: AES
Address: 42 West Avenue, Patchogue, NY 11772

Project: EAST SIDE COASTAL RESILIENCY Project P.O: 0897
Report to: AES
Invoice to: AES
QUOTE # : AE090921BA/AE061224BA

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Edward Pendergast Date: 1/27/25

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	TAL/TCL+30/NY add	Boron/Tin/Hex Chromium	FULL TCLP/[redacted]	Herbs/RIC	NJ ERH/TPH DRO/GRO	TOX/Total Volatile Solids	Oil + Grease	Chem. Oxygen Demand ASTM	GL Amber 8 oz. [ ] w/H3PO4 [ ] NAHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container (4) oz VOCgr	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL NAOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
S1748	BH-116	S	1.23.25	11:30		X	X	X	X	X	X	X	X			3	3	1							
S1749	BH-117	↓	↓	12:00		↓	↓	↓	↓	↓	↓	↓	↓			↓	↓	↓							
S1750	BH-118			12:15																					
S1751	BH-119			12:30																					
S1752	DEP-123			1:00																					
S1753	DEP-115A		1.24.25	8:45																					
S1754	DEP-115B			9:30																					
S1755	DEP-115C			9:45		↓	↓	↓	↓	↓	↓	↓	↓			↓	↓	↓							
S1756	DEP-115D *	↓	↓	10:10		X	X	X	X	X						3	2	1							
S1757	DEP-115E	↓	↓	10:35		X	X	X	X	X	X	X	X			3	3	1							

Relinquished by:	Accepted by:	Date:	Time:
Edward Pendergast		1/27/25	1230
		1/27/25	16:16

Turnaround:
☐ 1 Day*
☐ 2 Days*
☑ 3 Days*
☐ 4 Days*
☐ 5 Days*
☐ Standard
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

NY
☐ TOGS GW
☐ CP-51 SOIL
☑ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☑ 375SCO Residential Restricted Soil
☑ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

Comments, Special Requirements or Regulations:
*DEP-115D - no additional WM Table A parameters needed

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

Data Format:
☐ Phoenix Std Report ☐ EQuIS
☑ Excel ☐ NJ Hazsite EDD
☑ PDF ☐ NY EZ EDD (ASP)
☐ GIS/Key ☐ Other

Data Package:
☐ NJ Reduced Deliv. * ☐ Other
☐ NY Enhanced (ASP B) *

PEL-111 Rev 1/2023

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☐ No ☐

NY/NJ/PA CHAIN OF CUSTODY RECORD

Temp 2.6°C Pg 2 of 2

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Contact Options:
☐ Phone:
☐ Fax:
☑ Email: empendergast@aol.com

Customer: AES
Address:

Project: EAST SIDE COASTAL RESILIENCY Project P.O: 0897
Report to: AES
Invoice to: AES
QUOTE # : see p.1

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Date: 1/27/25

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	Oil & Grease ASTM	Total Solids- ASTM	Ammonia/Nitrogen ASTM	TCLP pH				GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container (8) oz	GL Soil container (4) oz VOCgr	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL NAOH 250ml	PL HNO_3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
51748	BH-116	S	1.24.25	see		X	X	X	X						3	3	1							
51749	BH-117	↓	↓	p.1		↓	↓	↓	↓						↓	↓	↓							
51750	BH-118																							
51751	BH-119																							
51753	DEP-115A																							
51754	DEP-115B																							
51755	DEP-115C																							
~~51756~~	DEP-115E									51757														

Relinquished by:	Accepted by:	Date:	Time:
		1/27/25	1230
		1/27/25	16:10

Comments, Special Requirements or Regulations:

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

Data Format:
☐ Phoenix Std Report ☐ EQuIS
☑ Excel ☐ NJ Hazsite EDD
☑ PDF ☐ NY EZ EDD (ASP)
☐ GIS/Key ☐ Other

Turnaround:
☐ 1 Day*
☐ 2 Days*
☑ 3 Days*
☐ 4 Days*
☐ 5 Days*
☐ Standard
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

Data Package:
☐ NJ Reduced Deliv. *
☐ Other
☐ NY Enhanced (ASP B) *

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

PEL-111 Rev 1/2023

Summit Environmental Technologies, LLC
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

January 31, 2025

Helen Geoghegan
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
TEL:
FAX:

RE: CS51748-CS51757

Dear Helen Geoghegan: Order No.: 25011789

Summit Environmental Technologies, LLC received 9 sample(s) on 1/29/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Holly Florea
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Summit Environmental Technologies, LLC
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **25011789**
Date: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc.
Project: CS51748-CS51757

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

 The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Summit Environmental Technologies, LLC
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **25011789**

31-Jan-25

CLIENT: Phoenix Environmental Laboratories, Inc.
Project: CS51748-CS51757

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25011789-001	CS51748		1/23/2025 11:30:00 AM	1/29/2025 10:10:00 AM	Solid
25011789-002	CS51749		1/23/2025 12:00:00 PM	1/29/2025 10:10:00 AM	Solid
25011789-003	CS51750		1/23/2025 12:15:00 PM	1/29/2025 10:10:00 AM	Solid
25011789-004	CS51751		1/23/2025 12:30:00 PM	1/29/2025 10:10:00 AM	Solid
25011789-005	CS51752		1/23/2025 1:00:00 PM	1/29/2025 10:10:00 AM	Solid
25011789-006	CS51753		1/24/2025 8:45:00 AM	1/29/2025 10:10:00 AM	Solid
25011789-007	CS51754		1/24/2025 9:30:00 AM	1/29/2025 10:10:00 AM	Solid
25011789-008	CS51755		1/24/2025 9:45:00 AM	1/29/2025 10:10:00 AM	Solid
25011789-009	CS51757		1/24/2025 10:35:00 AM	1/29/2025 10:10:00 AM	Solid

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
An Alliance Technical Group Company

Summit Environmental Technologies, LLC
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25011789**

Date Reported: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/23/2025 11:30:00 AM

Project: CS51748-CS51757

Lab ID: 25011789-001 **Matrix:** SOLID

Client Sample ID: CS51748

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **KMS**
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

Summit Environmental Technologies, LLC
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25011789**

Date Reported: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/23/2025 12:00:00 PM

Project: CS51748-CS51757

Lab ID: 25011789-002 **Matrix:** SOLID

Client Sample ID: CS51749

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **KMS**
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **25011789**

Date Reported: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/23/2025 12:15:00 PM

Project: CS51748-CS51757

Lab ID: 25011789-003 **Matrix:** SOLID

Client Sample ID: CS51750

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **KMS**
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **25011789**

Date Reported: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/23/2025 12:30:00 PM

Project: CS51748-CS51757

Lab ID: 25011789-004 **Matrix:** SOLID

Client Sample ID: CS51751

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **KMS**
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **25011789**

Date Reported: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/23/2025 1:00:00 PM

Project: CS51748-CS51757

Lab ID: 25011789-005 **Matrix:** SOLID

Client Sample ID: CS51752

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **KMS**
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **25011789**

Date Reported: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/24/2025 8:45:00 AM

Project: CS51748-CS51757

Lab ID: 25011789-006 **Matrix:** SOLID

Client Sample ID: CS51753

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **KMS**
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **25011789**

Date Reported: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/24/2025 9:30:00 AM

Project: CS51748-CS51757

Lab ID: 25011789-007 **Matrix:** SOLID

Client Sample ID: CS51754

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **KMS**
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **25011789**

Date Reported: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/24/2025 9:45:00 AM

Project: CS51748-CS51757

Lab ID: 25011789-008 **Matrix:** SOLID

Client Sample ID: CS51755

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **KMS**
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **25011789**

Date Reported: **1/31/2025**

CLIENT: Phoenix Environmental Laboratories, Inc. **Collection Date:** 1/24/2025 10:35:00 AM

Project: CS51748-CS51757

Lab ID: 25011789-009 **Matrix:** SOLID

Client Sample ID: CS51757

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)				**SW9023**		Analyst: **KMS**
Extractable Organic Halides	ND	40.0		mg/Kg	1	1/30/2025 8:00:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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QC SUMMARY REPORT

WO#: **25011789**

31-Jan-25

Client: Phoenix Environmental Laboratories, Inc.

Project: CS51748-CS51757 **BatchID:** **R202249**

Sample ID: **MB-R202249**	SampType: **MBLK**	TestCode: **EOX_S(9023)**	Units: **mg/Kg**	Prep Date:	RunNo: **202249**
Client ID: **BatchQC**	Batch ID: **R202249**	TestNo: **SW9023**		Analysis Date: **1/30/2025**	SeqNo: **5431734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	ND	40.0									

Sample ID: **LCS-R202249**	SampType: **LCS**	TestCode: **EOX_S(9023)**	Units: **mg/Kg**	Prep Date:	RunNo: **202249**
Client ID: **BatchQC**	Batch ID: **R202249**	TestNo: **SW9023**		Analysis Date: **1/30/2025**	SeqNo: **5431735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	44.0	40.0	50.00	0	88.0	72	125				

Sample ID: **25011789-007AMS**	SampType: **MS**	TestCode: **EOX_S(9023)**	Units: **mg/Kg**	Prep Date:	RunNo: **202249**
Client ID: **CS51754**	Batch ID: **R202249**	TestNo: **SW9023**		Analysis Date: **1/30/2025**	SeqNo: **5431749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	490	40.0	500.0	0	98.0	78	136				

Sample ID: **25011789-007AMSD**	SampType: **MSD**	TestCode: **EOX_S(9023)**	Units: **mg/Kg**	Prep Date:	RunNo: **202249**
Client ID: **CS51754**	Batch ID: **R202249**	TestNo: **SW9023**		Analysis Date: **1/30/2025**	SeqNo: **5431750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	500	40.0	500.0	0	100	78	136	490.0	2.02	20	

Qualifiers:

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
ND Not Detected
PL Permit Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as spec

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25011789**

31-Jan-25

Client: Phoenix Environmental Laboratories, Inc.

Project: CS51748-CS51757 **BatchID:** **R202249**

Sample ID: **25011789-007AMSD**	SampType: **MSD**	TestCode: **EOX_S(9023)**	Units: **mg/Kg**	Prep Date:	RunNo: **202249**
Client ID: **CS51754**	Batch ID: **R202249**	TestNo: **SW9023**		Analysis Date: **1/30/2025**	SeqNo: **5431750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: **MB-R202249**	SampType: **MBLK**	TestCode: **EOX_S(9023)**	Units: **mg/Kg**	Prep Date:	RunNo: **202249**
Client ID: **BatchQC**	Batch ID: **R202249**	TestNo: **SW9023**		Analysis Date: **1/30/2025**	SeqNo: **5431754**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	ND	40.0									

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as spec

Original

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Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **25011789**
Date: **1/31/2025**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Website: http://www.settek.com

DATES REPORT

WO#: **25011789**

31-Jan-25

Client: Phoenix Environmental Laboratories, Inc.

Project: CS51748-CS51757

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25011789-001A	CS51748	1/23/2025 11:30:00 AM	Solid	Extractable Organic Halides (EOX) (9(			1/30/2025 8:00:00 AM
25011789-002A	CS51749	1/23/2025 12:00:00 PM		Extractable Organic Halides (EOX) (9(			1/30/2025 8:00:00 AM
25011789-003A	CS51750	1/23/2025 12:15:00 PM		Extractable Organic Halides (EOX) (9(			1/30/2025 8:00:00 AM
25011789-004A	CS51751	1/23/2025 12:30:00 PM		Extractable Organic Halides (EOX) (9(			1/30/2025 8:00:00 AM
25011789-005A	CS51752	1/23/2025 1:00:00 PM		Extractable Organic Halides (EOX) (9(			1/30/2025 8:00:00 AM
25011789-006A	CS51753	1/24/2025 8:45:00 AM		Extractable Organic Halides (EOX) (9(			1/30/2025 8:00:00 AM
25011789-007A	CS51754	1/24/2025 9:30:00 AM		Extractable Organic Halides (EOX) (9(			1/30/2025 8:00:00 AM
25011789-008A	CS51755	1/24/2025 9:45:00 AM		Extractable Organic Halides (EOX) (9(			1/30/2025 8:00:00 AM
25011789-009A	CS51757	1/24/2025 10:35:00 AM		Extractable Organic Halides (EOX) (9(			1/30/2025 8:00:00 AM

Original

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Accreditation Program Analytes Report

WO#: **25011789**

31-Jan-25

Client: Phoenix Environmental Laboratories, Inc. **State:** NY

Project: CS51748-CS51757 **Program Name:** NY_DW_WW_S

Test Name	Matrix	Analyte	Status
Extractable Organic Halides (EOX) (9023)	Solid	Extractable Organic Halides	A

AL	U	Unavailable	CA-NELA	N	Not Accredited	CT	A	Accredited
FL-NELAI	A	Accredited	HI-DW	U	Unavailable	IA	N	Not Accredited
IL-NELAI	A	Accredited	IN_DW	U	Unavailable	S - NELA	A	Accredited
KY_UST	A	Accredited	W(RADS)	N	Not Accredited	_DW_WW	A	Accredited
MD-DW	U	Unavailable	I_DW_RA	U	Unavailable	J_WW_SC	A	Accredited

Original #1

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ No ☐

CHAIN OF CUSTODY RECORD

Temp °C Pg of

Page 1 of 1

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax: 860-645-0823
☐ Phone: 800-827-5426
☐ Email: HelenG@PhoenixLabs.com

Customer: Summit Environmental Technologies, Inc
Address: 3310 Win St
Cuyahoga, OH
(330) 253-8211

Project #: GCS51748
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCS51748

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

Phoenix Sample ID	Sample Comment	Sample Matrix	Date Sampled	Time Sampled	Extractable Organic Halogens SW9023	4oz jars
CS51748		SOIL	1/23/2025	11:30 AM	x	1
CS51749		SOIL	1/23/2025	12:00 PM	x	1
CS51750		SOIL	1/23/2025	12:15 PM	x	1
CS51751		SOIL	1/23/2025	12:30 PM	x	1
CS51752		SOIL	1/23/2025	1:00 PM	x	1
CS51753		SOIL	1/24/2025	8:45 AM	x	1
CS51754		SOIL	1/24/2025	9:30 AM	x	1
CS51755		SOIL	1/24/2025	9:45 AM	x	1
CS51757		SOIL	1/24/2025	10:35 AM	x	1

25011789

Relinquished by:	Accepted by:	Date:	Time:
Emily A	UPS Cooler	1/28/25	
	C. Cooler	1/29/25	1010

Turnaround:
☐ 1 Day
☐ 2 Days
☒ 3 Days
☐ 5 Days
☐ 10 Days
☒ ~~Standard~~
☐ Other_____

Report Type:
☒ Standard PDF
☐ Full Data Package
☐ NJ Reduced Deliverable
☐ NJ Full Deliverable
☐ NY ASP B

EDD Format:
☐ Excel
☐ GIS/Key
☐ ~~EQuIS~~
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other:_____

State Criteria:
NY: 375 Commercial
NY: 375 Residential Restricted
~~NY: 375 Unrestricted~~

Comments, Special Requirements or Regulations:

3.8 - 0.0 = 3.8

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

What State were samples collected?
NY

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Website: http://www.settek.com

Sample Log-In Check List

Client Name: PHO-CT-06040 Work Order Number: 25011789 RcptNo: 1

Logged by:	Christina N. Gemma	1/29/2025 10:10:00 AM	C. Gemma
Completed By:	Christina N. Gemma	1/29/2025 11:58:07 AM	C. Gemma
Reviewed By:	Holly Florea	1/29/2025 4:38:15 PM	Holly Florea

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good	Not Present			