Field Sampling Summary Report

RECONSTRUCTION OF
GATEWAY ESTATES AREA (NEHEMIAH CREEK) PHASE E
BROOKLYN, NY

NYCDDC PROJECT # HD161E

Prepared for:

New York City Department of Design and Construction
Office of Environmental and Hazmat Services
30-30 Thomson Avenue, 3rd Floor
Long Island City, New York 11101

On behalf of:

CAC Industries, Inc.
54-08 Vernon Boulevard
Long Island City, NY 11101

Prepared by:

AMERICAN ENVIRONMENTAL SOLUTIONS
42 West Avenue
Patchogue, New York 11772
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AES Project No. 0703

JUNE 25, 2025

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1.0 INTRODUCTION

American Environmental Solutions, Inc. (AES) of Patchogue, New York, has been contracted by CAC Industries, Inc. (CAC) of Long Island City, 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) Reconstruction of Gateway Estates (Nehemiah Creek) Phase E project (Project No. HD161E) located in Brooklyn, New York. This FSSR documents field sampling activities performed by AES on May 22nd, 2025.

1.1 Project Description

The Reconstruction of Gateway Estates Phase E project is located in an area being redeveloped with multi-family housing by New York City Department of Housing, Preservation & Development (NYCHPD) in the Nehemiah Creek section of Brooklyn, New York. The work location is in an area of Brooklyn previously occupied by a landfill. According to the Environmental Impact Statement (EIS) prepared by AKRF, Inc. (of New York, New York) in 2008 for the site, the site was originally tidal wetlands associated with Jamaica Bay. The site was filled with refuse containing ash, wood, metal, glass, concrete, brick and miscellaneous debris during 1930 – 1950s when it was occupied by the Milford Street Landfill. The site became part of the Fresh Creek Urban Renewal Area and was capped with clean sand in 1968. As such, historic fill debris may be present in the subsurface. The site location is shown on Figure 1.

Work tasks to be conducted for the project include site excavation, sewer installation, water main installation, roadway reconstruction, sidewalks and curb installation and traffic lighting. The site has been excavated to depths ranging from 8 to 16 feet below grade surface for installation of sanitary and storm sewers.

2.0 FIELD ACTIVITIES

AES performed sampling of stockpiled materials at the site on May 22nd, 2025. Eight (8) soil samples were collected from two stockpiles of soil generated during site excavation. Four samples were collected from each stockpile, each sample representing approximately 500 cubic yards of material. Soil sampling locations are shown on Figure 2. Site photographs are shown in Appendix A. The Daily Field Log is included in Appendix B.

2.1 Soil Sampling and Analysis

Four samples were collected from each stockpile (identified as Piles 85 and 86) based on the sampling frequency of 1 per 500 cubic yards. At each sampling location a five-point composite sample and one grab sample were collected. The grab samples were submitted for volatile organic compound (VOC) analysis. Samples were collected using stainless steel trowels from at least two feet below the soil surface.

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);
- Target Analyte List Metals (TAL) (Method 6010);
- Target Compound List (TCL) VOCS (Method 8260) and SVOCS (Method 8270)

2.2 Analytical Results

Analytical laboratory results indicated one sample (Pile 85 - #1) contained a concentration of lead exceeding the RCRA Hazardous Waste Characteristic Regulatory Level. Compound exeedances are shown on Tables 1 and 2. Laboratory analysis is included in Appendix C.

Comments:

- Analytical results of soil samples collected on May 22nd, 2025 were compared to applicable criteria as shown in Tables 1 and 2. There were no compound concentrations detected exceeding NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (CUSCOs). All eight samples collected contained lead in concentrations exceeding NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs). Three locations contained mercury and/or the pesticide 4,4-DDD in concentrations exceeding UUSCOs.

- TCLP Lead exceeded the RCRA Hazardous Waste Characteristic Regulatory Level of 5 milligrams per liter (mg/L) in soil sample Pile 85 - #1 at a concentration of 5.45 mg/L. TCLP results are summarized in Table 2.

- The stockpiled material was observed to contain historic fill and various types of miscellaneous wastes such as wood, plastic, glass, asphalt, concrete, etc. Soil containing these wastes are not suitable for use as backfill and must be transported off-site to a permitted disposal facility pursuant to federal, state and local regulations.

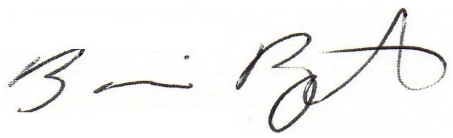
3.0 CONCLUSIONS AND RECOMMENDATIONS

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

- Laboratory analytical results indicated soil sample Pile 85 - #1 exhibited evidence of hazardous waste characteristics for toxicity as discussed above and identified in Table 2. 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 stockpiles.

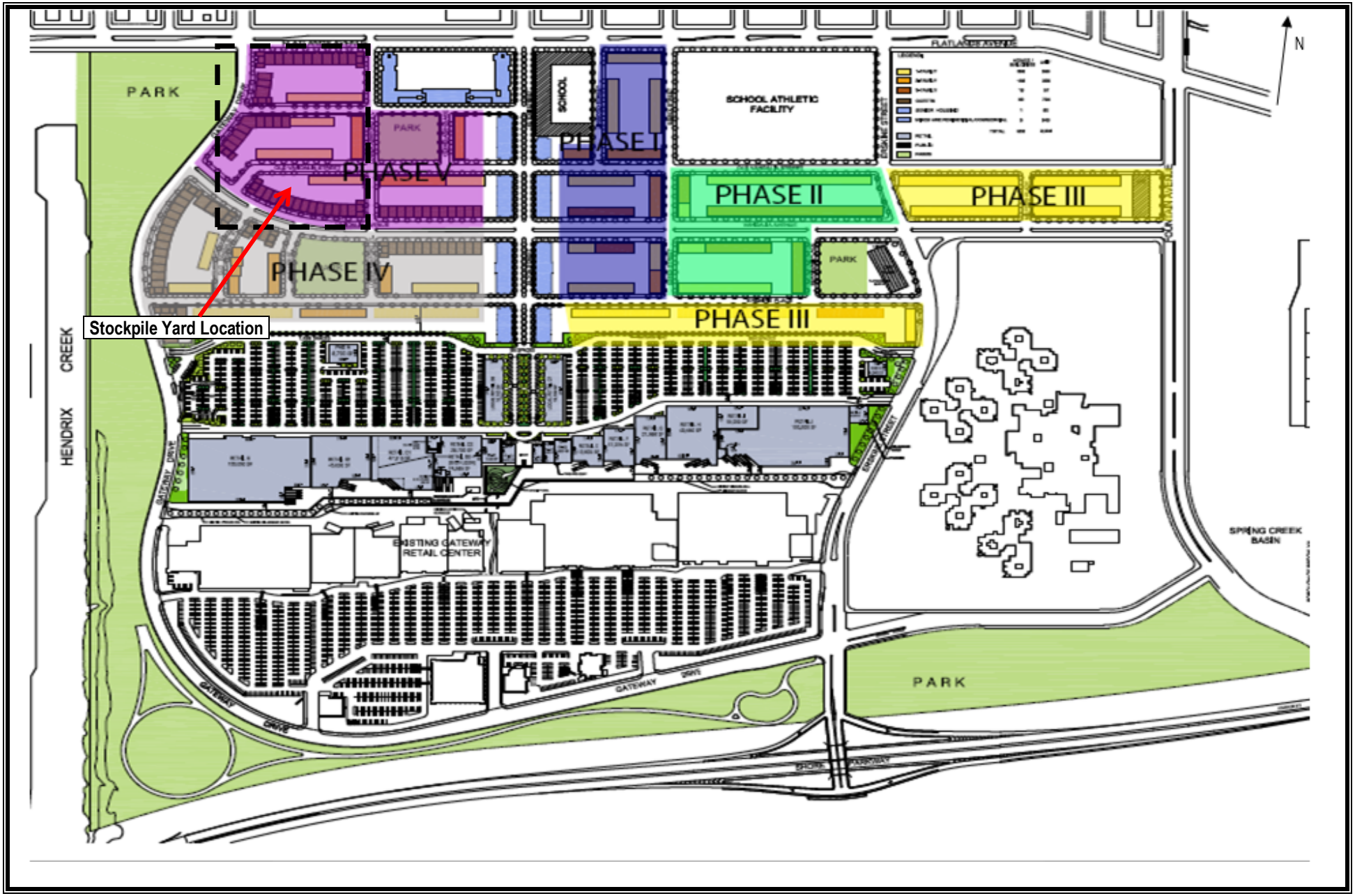
- The soil analytical results should be presented to disposal facilities for classification and acceptance in accordance with the individual permit requirements and state and federal regulations.

Report prepared by:

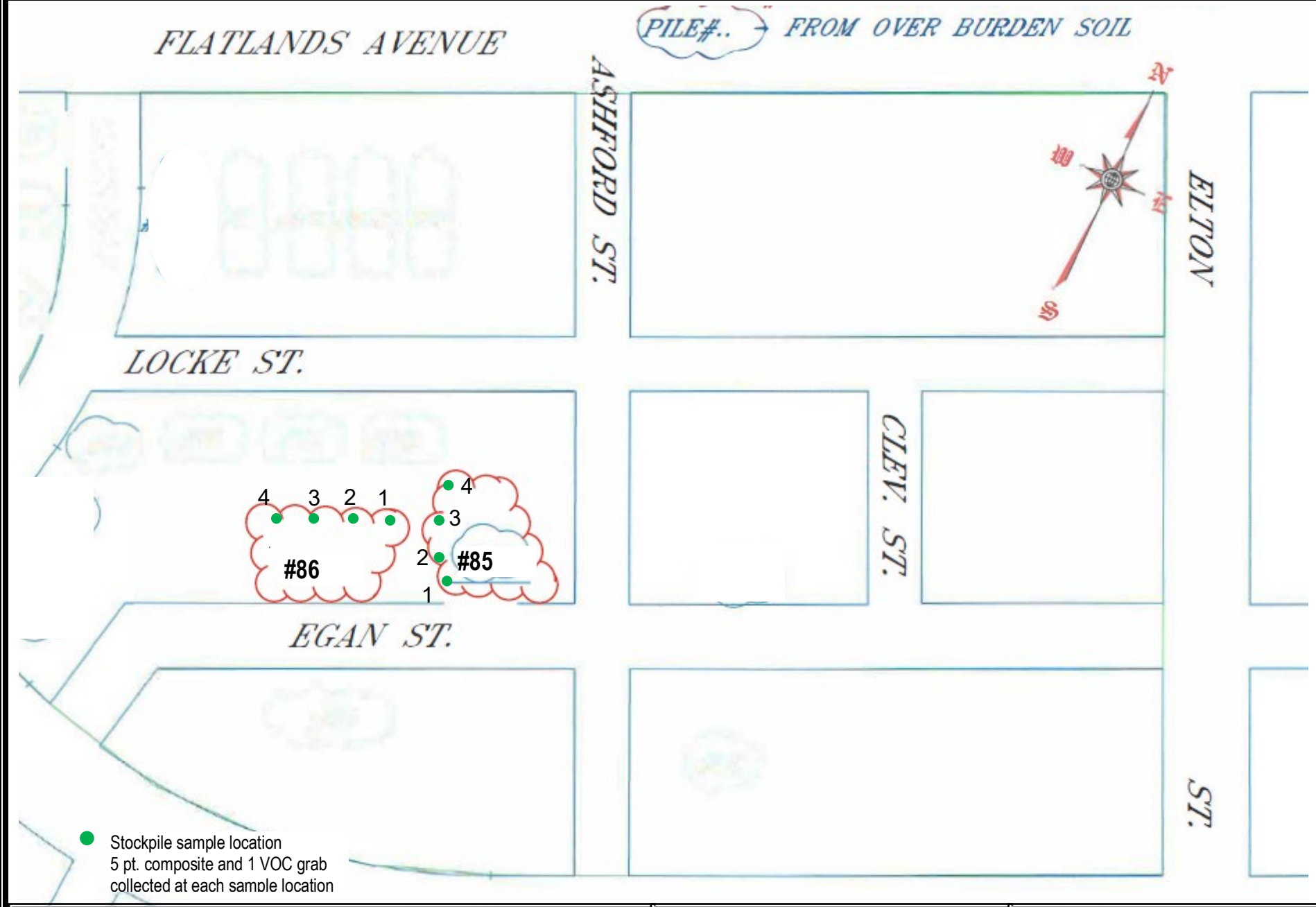


Brian Pendergast
Environmental Project Manager

FIGURES



Reconstruction of Gateway Estates **Phase E** **HD161E** **Brooklyn, NY**	**American Environmental Solutions, Inc.** AES Project Number 0703 FSSR	Figure 1: Location Map



Reconstruction of Gateway Estates Phase E **HD161E** **Brooklyn, NY**	American Environmental Solutions, Inc. Project No. 0703	**Figure 2** **Soil Sampling Location Map**

TABLES

RECONSTRUCTION OF GATEWAY ESTATES, PHASE E, BROOKLYN
NYCDDC PROJECT HD-161E
CAC INDUSTRIES, INC.
TABLE 1: SUMMARY OF SOIL ANALYSIS - STOCKPILE SAMPLING 5/22/25

Parameter	Compounds Detected	Unit	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Commercial Soil Cleanup Objectives	PILE 85-1	PILE 85-2	PILE 85-3	PILE 85-4	PILE 86-1	PILE 86-2	PILE 86-3	PILE 86-4
Mercury 7471	Mercury	ppm	0.18	2.8	ND	ND	ND	ND	0.146	ND	0.196	0.24
PCBs	None Detected	ppm	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides	4,4-DDD	ppm	0.0033	92	ND	ND	0.0038	ND	ND	ND	ND	0.004
Metals	Aluminum	ppm	NS	NS	5170	5840	5240	5580	7160	6190	5270	5200
	Silver	ppm	2	1500	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ppm	13	16	2.75	3.03	2.25	4.43	3.56	5.63	3.37	3.22
	Barium	ppm	350	400	47	58.3	38.5	47.4	50.1	55.1	64.1	56.7
	Beryllium	ppm	7.2	590	ND	.3	ND	ND	.45	.3	ND	ND
	Cadmium	ppm	2.5	9.3	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	ppm	NS	NS	5,730	7,180	18,600	16,200	8,790	22,600	21,100	20,800
	Chromium	ppm	30	1500	12.2	13.8	11.1	17.9	17.7	20.6	14.5	14.2
	Cobalt	ppm	NS	NS	4.26	5.31	4.11	5.51	5.4	5.07	4.29	5.45
	Copper	ppm	50	270	17.3	31.2	19.5	35.1	22.1	23	21.3	37.1
	Iron	ppm	NS	NS	11,500	14,000	10,100	13,500	13,000	13,000	11,000	13,600
	Lead	ppm	63	1000	139	152	114	48.6	58.8	65.9	70.1	223
	Manganese	ppm	1,600	10,000	162	181	169	209	191	27	200	128
	Magnesium	ppm	NS	NS	2440	3520	9710	2930	3440	3500	6970	7660
	Nickel	ppm	30	310	11.5	14.4	11	15.1	16.6	16.5	13.7	11.4
	Antimony	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	ppm	3.9	1500	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	ppm	NS	NS	103	117	158	211	176	218	124	357
	Potassium	ppm	NS	NS	571	682	622	786	792	849	644	484
	Vanadium	ppm	NS	NS	23.9	25.4	27.8	29.9	28.3	32.6	23.4	36.2
	Thallium	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ppm	109	10,000	49.8	72.7	46.1	57.1	53.8	61	69.6	90.9
Semi-Volatile Organic Compounds	Benz(a)anthracene	ppm	1	5.6	ND	ND	ND	.5	.31	ND	ND	ND
	Benzo(a)pyrene	ppm	1	1	ND	ND	ND	.43	.3	ND	ND	ND
	Benzo(b)fluoranthene	ppm	1	5.6	.27	.49	ND	.55	.4	ND	.4	.27
	Chrysene	ppm	1	56	ND	ND	ND	.59	.35	ND	ND	ND
	Fluoranthene	ppm	100	500	ND	.59	.44	.94	.64	ND	.49	.39
	Phenanthrene	ppm	100	500	ND	ND	ND	.7	.48	ND	ND	ND
	Pyrene	ppm	100	500	ND	.61	.47	1	.65	ND	.54	.38
Cyanide	Cyanide	ppm	27	27	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds	1,2,4-Trimethylene	ppm	3.6	190	ND	0.14	0.016	0.013	ND	ND	ND	ND
	1,3,5-Trimethylbenzene	ppm	8.4	190	ND	0.017	ND	ND	ND	ND	ND	ND
	m&p-Xylene	ppm	-	-	ND	0.0085	ND	ND	ND	ND	ND	ND
	o-Xylene	ppm	-	-	ND	0.0054	ND	ND	ND	ND	ND	ND
	Total Xylenes	ppm	0.26	500	ND	0.0139	ND	ND	ND	ND	ND	ND
TPH DRO + GRO	Gasoline Range Organics	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
	Diesel Range Organics	ppm	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NS No regulatory standard
ND Not detected
Yellow highlighted concentrations exceed NYSDEC Part 375 Commercial Use Soil Cleanup Objectives
Green highlighted concentrations exceed NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives

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RECONSTRUCTION OF GATEWAY ESTATES, PHASE E, BROOKLYN
NYCDDC PROJECT HD-161E
CAC INDUSTRIES
TABLE 2: SUMMARY OFSOIL ANALYSIS - SAMPLES COLLECTED 5/22/25

Parameter	Compounds Detected	Unit	Regulatory Criteria	PILE 85-1	PILE 85-2	PILE 85-3	PILE 85-4	PILE 86-1	PILE 86-2	PILE 86-3	PILE 86-4
RCRA Characteristics	pH	pH units	<2 or >12.5	8.42	8.47	8.39	8.92	9.4	8.82	8.2	7.92
	Flashpoint	° 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
	Reactivity - Cyanide	ppm	_	ND	ND	ND	ND	ND	ND	ND	ND
	Reactivity - Sulfide	ppm		ND	ND	ND	ND	ND	ND	ND	ND
TOXICITY		**Unit**	**USEPA Toxicity Characteristic Regulatory Criteria**	**PILE 85-1**	**PILE 85-2**	**PILE 85-3**	**PILE 85-4**	**PILE 86-1**	**PILE 86-2**	**PILE 86-3**	**PILE 86-4**
TCLP Metals	Barium	mg/L	100	0.66	0.52	0.58	0.61	0.39	0.51	0.58	0.79
	Mercury	mg/L	0.2	ND	ND	ND	ND	ND	ND	0.003	ND
	Lead	mg/L	5	**5.45**	0.11	2.99	ND	0.11	0.16	0.19	1.38
TCLP VOCs	None Detected	_	_	ND	ND	ND	ND	ND	ND	ND	ND
TCLP SVOCs	None Detected	_	_	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Pests/Herbicides	None Detected	_	_	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NS No regulatory criteria available
ND Not detected
Green highlighted concentrationx exceed regulatory criteria.

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APPENDIX A
SITE PHOTOGRAPHS

Pile 85, sample 1 collected 5/22/25

Pile 85, sample 2 collected 5/22/25

Pile 85, sampled 5/22/25

Pile 86, sample 1 collected 5/22/25

Pile 86, sample 3 collected 5/22/25

Pile 86, sample 4 collected 5/22/25

Stockpiled material

Pile 86, sample 2 collected 5/22/25

APPENDIX B
DAILY FIELD LOG

AES, Inc. Daily Report Form	AES PROJ. NO.	0703	DATE:	5/22/2025
	LOCATION:	Stockpile Yard	Day of the week: S M T W (T) F S	
	WEATHER:	49° F, light rain		

Contract Number: HD161E

Project Description: Reconstruction of Gateway Estates Area, Phase E

Location: Stockpile yard located at Vandalia Avenue & Gateway Drive, Brooklyn

Contractor: CAC Industries, Inc.

Agency: NYCDDC

Brian Pendergast on-site at 10 am

8 samples collected from 2- approx. 2,000 cubic yard stockpiles.

No odor or PID readings observed.

Material observed to contain debris such as concrete, rock, brick and wood

Samples collected 10:05 am. 1 VOC grab sample & 1 5 pt. composite sample collected from each location greater than 2' beneath the soil surface using stainless steel trowels. Sample IDs

Pile 85-#1, Pile 85-#2, Pile 85-#3, Pile 85-#4

Pile 86-#1, Pile 86-#2, Pile 86-#3, Pile 86-#4

Soil samples to be picked up from AES office by Phoenix Labs on 5/23. Lab analysis requested: Full TCLP, RIC, TPH, Metals, SVOCs, PCBs, Pests,

VOCs on grab sample

GENERAL COMMENTS

APPENDIX C
LABORATORY ANALYSIS

PHOENIX
Environmental Laboratories, Inc.

Thursday, June 05, 2025

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

Project ID: **GATEWAY ESTATES-HD161E**
SDG ID: **GCT35387**
Sample ID#s: **CT35387 - CT35394**

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. 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

June 05, 2025

SDG I.D.: GCT35387

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.
Version 2: Per client request sample CT35387 was reanalyzed for Lead.

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

June 05, 2025

SDG I.D.: GCT35387

Project ID: GATEWAY ESTATES-HD161E

Client Id	Lab Id	Matrix	Col Date
PILE 85-1	CT35387	SOIL	05/22/25 10:05
PILE 85-2	CT35388	SOIL	05/22/25 10:10
PILE 85-3	CT35389	SOIL	05/22/25 10:15
PILE 85-4	CT35390	SOIL	05/22/25 10:20
PILE 86-1	CT35391	SOIL	05/22/25 10:40
PILE 86-2	CT35392	SOIL	05/22/25 10:45
PILE 86-3	CT35393	SOIL	05/22/25 10:48
PILE 86-4	CT35394	SOIL	05/22/25 10:50

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

June 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:		05/22/25	10:05
Location Code:	AES-INC	Received by:	CP	05/23/25	17:21
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	0703				

Laboratory Data

SDG ID: GCT35387
Phoenix ID: CT35387

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Aluminum	5170	5.8	mg/Kg	1	05/27/25	CPP	SW6010D
Arsenic	2.75	0.77	mg/Kg	1	05/27/25	CPP	SW6010D
Barium	47.0	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Beryllium	< 0.31	0.31	mg/Kg	1	05/27/25	CPP	SW6010D
Calcium	5730	5.8	mg/Kg	1	05/27/25	CPP	SW6010D
Cadmium	< 0.39	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Cobalt	4.26	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Chromium	12.2	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Copper	17.3	0.8	mg/kg	1	05/27/25	CPP	SW6010D
Iron	11500	60	mg/Kg	1	05/27/25	CPP	SW6010D
Mercury	< 0.14	0.14	mg/Kg	1	05/23/25	JM	SW7473
Potassium	571	5.8	mg/Kg	1	05/27/25	CPP	SW6010D
Magnesium	2440	5.8	mg/Kg	1	05/27/25	CPP	SW6010D
Manganese	162	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Sodium	103	5.8	mg/Kg	1	05/27/25	CPP	SW6010D
Nickel	11.5	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Lead	139	0.36	mg/Kg	1	06/04/25	MGH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	05/27/25	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/27/25	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Barium	0.66	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/29/25	JM	SW846 1311/7470
TCLP Lead	5.45	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010D

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.5	3.5	mg/Kg	1	05/27/25	CPP	SW6010D	
TCLP Metals Digestion	Completed				05/29/25	AK/GW	SW3010A	
Vanadium	23.9	0.39	mg/Kg	1	05/27/25	CPP	SW6010D	
Zinc	49.8	0.8	mg/Kg	1	05/27/25	CPP	SW6010D	
Percent Solid	90		%		05/23/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	05/23/25	KG	SW846-Corr	1
Flash Point	>200	200	Degree F	1	05/27/25	G	SW1010B	
Ignitability	Passed	140	degree F	1	05/27/25	G	SW846-Ignit	1
pH at 19C - Soil	8.42	1.00	pH Units	1	05/23/25 22:54	KG	SW846 9045D	
Reactivity Cyanide	< 5	5	mg/Kg	1	05/27/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	05/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	05/28/25	NP/GD	SW846-React	1
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/28/25	A/GD	SW9012B	
Extraction of NY ETPH	Completed				05/28/25	SD/DS	SW3546	
Soil Extraction for PCB	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for Pesticides	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for SVOA	Completed				05/29/25	/Q	SW3546	
TCLP Digestion Mercury	Completed				05/29/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				05/29/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				05/28/25	AK	SW1311	
TCLP Extraction for Organics	Completed				05/28/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				05/29/25	J/J	SW3510C	
TCLP Semi-Volatile Extraction	Completed				05/29/25	T/T	SW3510C	
TCLP Extraction Volatiles	Completed				05/28/25	AK	SW1311	
Total Metals Digest	Completed				06/03/25	N/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	7.3	mg/Kg	50	05/28/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	97		%	50	05/28/25	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1221	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1232	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1242	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1248	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1254	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1260	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1262	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1268	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
QA/QC Surrogates								
% DCBP	93		%	2	05/28/25	SC	30 - 150 %	
% DCBP (Confirmation)	85		%	2	05/28/25	SC	30 - 150 %	
% TCMX	83		%	2	05/28/25	SC	30 - 150 %	
% TCMX (Confirmation)	83		%	2	05/28/25	SC	30 - 150 %	
Pesticides - Soil								
4,4' -DDD	ND	3.0	ug/Kg	2	05/28/25	AW	SW8081B	

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-1

Phoenix I.D.: CT35387

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4,4' -DDE	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	
4,4' -DDT	ND	3.3	ug/Kg	2	05/28/25	AW	SW8081B	
a-BHC	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
a-Chlordane	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Aldrin	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
b-BHC	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Chlordane	ND	37	ug/Kg	2	05/28/25	AW	SW8081B	
d-BHC	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Dieldrin	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan I	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan II	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin aldehyde	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin ketone	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
g-BHC	ND	1.5	ug/Kg	2	05/28/25	AW	SW8081B	
g-Chlordane	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Methoxychlor	ND	37	ug/Kg	2	05/28/25	AW	SW8081B	
Toxaphene	ND	150	ug/Kg	2	05/28/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	82		%	2	05/28/25	AW	30 - 150 %	
% DCBP (Confirmation)	64		%	2	05/28/25	AW	30 - 150 %	
% TCMX	71		%	2	05/28/25	AW	30 - 150 %	
% TCMX (Confirmation)	76		%	2	05/28/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	05/31/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	69		%	10	05/31/25	JRB	30 - 150 %	
% DCAA (Confirmation)	69		%	10	05/31/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	05/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-BHC (Lindane)	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/30/25	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	61		%	10	05/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	106		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	69		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	62		%	10	05/30/25	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	410	mg/Kg	5	05/28/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	70		%	5	05/28/25	JRB	50 - 150 %
% Terphenyl (surr)	84		%	5	05/28/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,1-Dichloroethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,1-Dichloroethene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dibromoethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dichloroethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dichloropropane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
2-Hexanone	ND	25	ug/kg	1	05/23/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	25	ug/kg	1	05/23/25	JLI	SW8260D
Acetone	ND	49	ug/kg	1	05/23/25	JLI	SW8260D
Benzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Bromochloromethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Bromodichloromethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Bromoform	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Bromomethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Carbon Disulfide	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Carbon tetrachloride	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Chlorobenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Chloroethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Chloroform	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Chloromethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Cyclohexane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Dibromochloromethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Dichlorodifluoromethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Ethylbenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Isopropylbenzene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
m&p-Xylene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Methyl ethyl ketone	ND	30	ug/kg	1	05/23/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	9.9	ug/kg	1	05/23/25	JLI	SW8260D
Methylacetate	ND	4.0	ug/kg	1	05/23/25	JLI	SW8260D
Methylcyclohexane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Methylene chloride	ND	25	ug/kg	1	05/23/25	JLI	SW8260D
o-Xylene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Styrene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Tetrachloroethene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Toluene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Total Xylenes	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Trichloroethene	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Trichlorofluoromethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
Vinyl chloride	ND	4.9	ug/kg	1	05/23/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	05/23/25	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	05/23/25	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	05/23/25	JLI	70 - 130 %
% Toluene-d8	87		%	1	05/23/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	74	ug/kg	1	05/23/25	JLI	SW8260D
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	97		%	10	05/29/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	05/29/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	100		%	10	05/29/25	MH	70 - 130 %
% Toluene-d8 (10x)	96		%	10	05/29/25	MH	70 - 130 %
Volatile Library Search	Completed				05/27/25	JLI	

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-1

Phoenix I.D.: CT35387

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles								
1,1-Biphenyl	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2,4-Dinitrophenol	ND	590	ug/Kg	1	05/30/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2-Methylnaphthalene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
2-Nitroaniline	ND	590	ug/Kg	1	05/30/25	MR	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	05/30/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	05/30/25	MR	SW8270E	
3-Nitroaniline	ND	590	ug/Kg	1	05/30/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	05/30/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/30/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
4-Nitroaniline	ND	590	ug/Kg	1	05/30/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	05/30/25	MR	SW8270E	
Acenaphthene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Acenaphthylene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Acetophenone	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Anthracene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Atrazine	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Benz(a)anthracene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Benzaldehyde	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Benzo(a)pyrene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Benzo(b)fluoranthene	270	260	ug/Kg	1	05/30/25	MR	SW8270E	
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/30/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Caprolactam	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Carbazole	ND	370	ug/Kg	1	05/30/25	MR	SW8270E	
Chrysene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	05/30/25	MR	SW8270E	
Dibenzofuran	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	
Diethyl phthalate	ND	260	ug/Kg	1	05/30/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Di-n-butylphthalate	ND	740	ug/Kg	1	05/30/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Hexachlorobutadiene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
N-Nitrosodimethylamine	ND	370	ug/Kg	1	05/30/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	05/30/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	05/30/25	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/30/25	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	05/30/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	89		%	1	05/30/25	MR	30 - 130 %
% 2-Fluorobiphenyl	76		%	1	05/30/25	MR	30 - 130 %
% 2-Fluorophenol	74		%	1	05/30/25	MR	30 - 130 %
% Nitrobenzene-d5	79		%	1	05/30/25	MR	30 - 130 %
% Phenol-d5	70		%	1	05/30/25	MR	30 - 130 %
% Terphenyl-d14	48		%	1	05/30/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	87		%	1	05/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	73		%	1	05/30/25	MR	30 - 130 %
% 2-Fluorophenol	69		%	1	05/30/25	MR	15 - 110 %
% Nitrobenzene-d5	76		%	1	05/30/25	MR	30 - 130 %
% Phenol-d5	61		%	1	05/30/25	MR	15 - 110 %
% Terphenyl-d14	79		%	1	05/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				05/30/25	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.

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
June 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

NY # 11301

Analysis Report

June 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:		05/22/25	10:10
Location Code:	AES-INC	Received by:	CP	05/23/25	17:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0703				

Laboratory Data

SDG ID: GCT35387
Phoenix ID: CT35388

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	05/27/25	CPP	SW6010D
Aluminum	5840	5.4	mg/Kg	1	05/27/25	CPP	SW6010D
Arsenic	3.03	0.72	mg/Kg	1	05/27/25	CPP	SW6010D
Barium	58.3	0.36	mg/Kg	1	05/27/25	CPP	SW6010D
Beryllium	0.30	0.29	mg/Kg	1	05/27/25	CPP	SW6010D
Calcium	7180	5.4	mg/Kg	1	05/27/25	CPP	SW6010D
Cadmium	< 0.36	0.36	mg/Kg	1	05/27/25	CPP	SW6010D
Cobalt	5.31	0.36	mg/Kg	1	05/27/25	CPP	SW6010D
Chromium	13.8	0.36	mg/Kg	1	05/27/25	CPP	SW6010D
Copper	31.2	0.7	mg/kg	1	05/27/25	CPP	SW6010D
Iron	14000	5.4	mg/Kg	1	05/27/25	CPP	SW6010D
Mercury	< 0.14	0.14	mg/Kg	1	05/23/25	JM	SW7473
Potassium	682	5.4	mg/Kg	1	05/27/25	CPP	SW6010D
Magnesium	3520	5.4	mg/Kg	1	05/27/25	CPP	SW6010D
Manganese	181	0.36	mg/Kg	1	05/27/25	CPP	SW6010D
Sodium	117	5.4	mg/Kg	1	05/27/25	CPP	SW6010D
Nickel	14.4	0.36	mg/Kg	1	05/27/25	CPP	SW6010D
Lead	152	0.36	mg/Kg	1	05/27/25	CPP	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	05/27/25	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/27/25	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Barium	0.52	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/29/25	JM	SW846 1311/7470
TCLP Lead	0.11	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010D

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.2	3.2	mg/Kg	1	05/27/25	CPP	SW6010D	
TCLP Metals Digestion	Completed				05/29/25	AK/GW	SW3010A	
Vanadium	25.4	0.36	mg/Kg	1	05/27/25	CPP	SW6010D	
Zinc	72.7	0.7	mg/Kg	1	05/27/25	CPP	SW6010D	
Percent Solid	90		%		05/23/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	05/23/25	KG	SW846-Corr	1
Flash Point	>200	200	Degree F	1	05/27/25	G	SW1010B	
Ignitability	Passed	140	degree F	1	05/27/25	G	SW846-Ignit	1
pH at 19C - Soil	8.47	1.00	pH Units	1	05/23/25 22:54	KG	SW846 9045D	
Reactivity Cyanide	< 5	5	mg/Kg	1	05/27/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	05/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	05/28/25	NP/GD	SW846-React	1
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/28/25	A/GD	SW9012B	
Extraction of NY ETPH	Completed				05/28/25	SD/DS	SW3546	
Soil Extraction for PCB	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for Pesticides	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for SVOA	Completed				05/28/25	SD/DS	SW3546	
TCLP Digestion Mercury	Completed				05/29/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				05/29/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				05/28/25	AK	SW1311	
TCLP Extraction for Organics	Completed				05/28/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				05/29/25	J/J	SW3510C	
TCLP Semi-Volatile Extraction	Completed				05/29/25	T/T	SW3510C	
TCLP Extraction Volatiles	Completed				05/28/25	AK	SW1311	
Total Metals Digest	Completed				05/23/25	B/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	6.6	mg/Kg	50	05/28/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	92		%	50	05/28/25	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1221	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1232	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1242	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1248	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1254	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1260	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1262	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1268	ND	73	ug/Kg	2	05/28/25	SC	SW8082A	
QA/QC Surrogates								
% DCBP	47		%	2	05/28/25	SC	30 - 150 %	
% DCBP (Confirmation)	42		%	2	05/28/25	SC	30 - 150 %	
% TCMX	44		%	2	05/28/25	SC	30 - 150 %	
% TCMX (Confirmation)	45		%	2	05/28/25	SC	30 - 150 %	
Pesticides - Soil								
4,4' -DDD	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-2

Phoenix I.D.: CT35388

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4,4' -DDE	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	
4,4' -DDT	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	
a-BHC	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
a-Chlordane	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Aldrin	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
b-BHC	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Chlordane	ND	37	ug/Kg	2	05/28/25	AW	SW8081B	
d-BHC	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Dieldrin	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan I	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan II	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin aldehyde	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin ketone	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
g-BHC	ND	1.5	ug/Kg	2	05/28/25	AW	SW8081B	
g-Chlordane	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/28/25	AW	SW8081B	
Methoxychlor	ND	37	ug/Kg	2	05/28/25	AW	SW8081B	
Toxaphene	ND	150	ug/Kg	2	05/28/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	48		%	2	05/28/25	AW	30 - 150 %	
% DCBP (Confirmation)	33		%	2	05/28/25	AW	30 - 150 %	
% TCMX	37		%	2	05/28/25	AW	30 - 150 %	
% TCMX (Confirmation)	43		%	2	05/28/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	05/31/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	62		%	10	05/31/25	JRB	30 - 150 %	
% DCAA (Confirmation)	66		%	10	05/31/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	05/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-BHC (Lindane)	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/30/25	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	57		%	10	05/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	91		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	61		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	58		%	10	05/30/25	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	410	mg/Kg	5	05/28/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	82		%	5	05/28/25	JRB	50 - 150 %
% Terphenyl (surr)	81		%	5	05/28/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,1-Dichloroethene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,2,4-Trimethylbenzene	140	130	ug/kg	50	05/26/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,3,5-Trimethylbenzene	17	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
2-Hexanone	ND	25	ug/kg	1	05/23/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	25	ug/kg	1	05/23/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/23/25	JLI	SW8260D
Benzene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Bromochloromethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Bromodichloromethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Bromoform	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Bromomethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Carbon Disulfide	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Carbon tetrachloride	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Chlorobenzene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Chloroethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Chloroform	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Chloromethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Cyclohexane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Dibromochloromethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Ethylbenzene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Isopropylbenzene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
m&p-Xylene	8.5	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Methyl ethyl ketone	ND	30	ug/kg	1	05/23/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	05/23/25	JLI	SW8260D
Methylacetate	ND	4.0	ug/kg	1	05/23/25	JLI	SW8260D
Methylcyclohexane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Methylene chloride	ND	25	ug/kg	1	05/23/25	JLI	SW8260D
o-Xylene	5.4	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Styrene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Tetrachloroethene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Toluene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Total Xylenes	13.9	5.0	ug/kg	1	05/23/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Trichloroethene	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
Vinyl chloride	ND	5.0	ug/kg	1	05/23/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	05/23/25	JLI	70 - 130 %
% Bromofluorobenzene	82		%	1	05/23/25	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	05/23/25	JLI	70 - 130 %
% Toluene-d8	84		%	1	05/23/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	94		%	50	05/26/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	05/26/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	101		%	50	05/26/25	JLI	70 - 130 %
% Toluene-d8 (50x)	90		%	50	05/26/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	75	ug/kg	1	05/23/25	JLI	SW8260D
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	05/29/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	94		%	10	05/29/25	MH	70 - 130 %

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-2

Phoenix I.D.: CT35388

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Dibromofluoromethane (10x)	103		%	10	05/29/25	MH	70 - 130 %	
% Toluene-d8 (10x)	98		%	10	05/29/25	MH	70 - 130 %	
Volatile Library Search	Completed				05/27/25	JLI		
Semivolatiles								
1,1-Biphenyl	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitroaniline	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitrophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	670	ug/Kg	1	05/28/25	MR	SW8270E	
3-Nitroaniline	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1600	ug/Kg	1	05/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	560	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloroaniline	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitroaniline	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitrophenol	ND	1600	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthylene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Acetophenone	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Anthracene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Atrazine	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benz(a)anthracene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzaldehyde	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(a)pyrene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(b)fluoranthene	490	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(ghi)perylene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(k)fluoranthene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	560	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Caprolactam	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Carbazole	ND	560	ug/Kg	1	05/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/28/25	MR	SW8270E
Dibenzofuran	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Diethyl phthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Dimethylphthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-butylphthalate	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-octylphthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Fluoranthene	590	390	ug/Kg	1	05/28/25	MR	SW8270E
Fluorene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobenzene	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobutadiene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Hexachloroethane	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Isophorone	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Naphthalene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Nitrobenzene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	560	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	560	ug/Kg	1	05/28/25	MR	SW8270E
Pentachlorophenol	ND	560	ug/Kg	1	05/28/25	MR	SW8270E
Phenanthrene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Phenol	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Pyrene	610	390	ug/Kg	1	05/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	76		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	79		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorophenol	69		%	1	05/28/25	MR	30 - 130 %
% Nitrobenzene-d5	76		%	1	05/28/25	MR	30 - 130 %
% Phenol-d5	74		%	1	05/28/25	MR	30 - 130 %
% Terphenyl-d14	75		%	1	05/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	50		%	1	05/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	43		%	1	05/30/25	MR	30 - 130 %
% 2-Fluorophenol	46		%	1	05/30/25	MR	15 - 110 %
% Nitrobenzene-d5	44		%	1	05/30/25	MR	30 - 130 %

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-2

Phoenix I.D.: CT35388

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Phenol-d5	43		%	1	05/30/25	MR	15 - 110 %
% Terphenyl-d14	49		%	1	05/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				05/29/25	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.

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.

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
June 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

June 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:		05/22/25	10:15
Location Code:	AES-INC	Received by:	CP	05/23/25	17:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0703				

Laboratory Data

SDG ID: GCT35387
Phoenix ID: CT35389

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	05/27/25	CPP	SW6010D
Aluminum	5240	5.1	mg/Kg	1	05/27/25	CPP	SW6010D
Arsenic	2.25	0.68	mg/Kg	1	05/27/25	CPP	SW6010D
Barium	38.5	0.34	mg/Kg	1	05/27/25	CPP	SW6010D
Beryllium	< 0.27	0.27	mg/Kg	1	05/27/25	CPP	SW6010D
Calcium	18600	51	mg/Kg	10	05/27/25	CPP	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	05/27/25	CPP	SW6010D
Cobalt	4.11	0.34	mg/Kg	1	05/27/25	CPP	SW6010D
Chromium	11.1	0.34	mg/Kg	1	05/27/25	CPP	SW6010D
Copper	19.5	0.7	mg/kg	1	05/27/25	CPP	SW6010D
Iron	10100	5.1	mg/Kg	1	05/27/25	CPP	SW6010D
Mercury	< 0.14	0.14	mg/Kg	1	05/23/25	JM	SW7473
Potassium	622	5.1	mg/Kg	1	05/27/25	CPP	SW6010D
Magnesium	9710	5.1	mg/Kg	1	05/27/25	CPP	SW6010D
Manganese	169	0.34	mg/Kg	1	05/27/25	CPP	SW6010D
Sodium	158	5.1	mg/Kg	1	05/27/25	CPP	SW6010D
Nickel	11.0	0.34	mg/Kg	1	05/27/25	CPP	SW6010D
Lead	114	0.34	mg/Kg	1	05/27/25	CPP	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	05/27/25	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/27/25	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Barium	0.58	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/29/25	JM	SW846 1311/7470
TCLP Lead	2.99	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010D

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-3

Phoenix I.D.: CT35389

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.1	3.1	mg/Kg	1	05/27/25	CPP	SW6010D	
TCLP Metals Digestion	Completed				05/29/25	AK/GW	SW3010A	
Vanadium	27.8	0.34	mg/Kg	1	05/27/25	CPP	SW6010D	
Zinc	46.1	0.7	mg/Kg	1	05/27/25	CPP	SW6010D	
Percent Solid	91		%		05/23/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	05/23/25	KG	SW846-Corr	1
Flash Point	>200	200	Degree F	1	05/27/25	G	SW1010B	
Ignitability	Passed	140	degree F	1	05/27/25	G	SW846-Ignit	1
pH at 19C - Soil	8.39	1.00	pH Units	1	05/23/25 22:54	KG	SW846 9045D	
Reactivity Cyanide	< 5	5	mg/Kg	1	05/27/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	05/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	05/28/25	NP/GD	SW846-React	1
Total Cyanide (SW9010C Distill.)	< 0.55	0.55	mg/Kg	1	05/28/25	A/GD	SW9012B	
Extraction of NY ETPH	Completed				05/28/25	SD/DS	SW3546	
Soil Extraction for PCB	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for Pesticides	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for SVOA	Completed				05/28/25	SD/DS	SW3546	
TCLP Digestion Mercury	Completed				05/29/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				05/29/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				05/28/25	AK	SW1311	
TCLP Extraction for Organics	Completed				05/28/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				05/29/25	J/J	SW3510C	
TCLP Semi-Volatile Extraction	Completed				05/29/25	T/T	SW3510C	
TCLP Extraction Volatiles	Completed				05/28/25	AK	SW1311	
Total Metals Digest	Completed				05/23/25	B/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	6.0	mg/Kg	50	05/28/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	106		%	50	05/28/25	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	71	ug/Kg	2	05/29/25	SC	SW8082A	
PCB-1221	ND	71	ug/Kg	2	05/29/25	SC	SW8082A	
PCB-1232	ND	71	ug/Kg	2	05/29/25	SC	SW8082A	
PCB-1242	ND	71	ug/Kg	2	05/29/25	SC	SW8082A	
PCB-1248	ND	71	ug/Kg	2	05/29/25	SC	SW8082A	
PCB-1254	ND	71	ug/Kg	2	05/29/25	SC	SW8082A	
PCB-1260	ND	71	ug/Kg	2	05/29/25	SC	SW8082A	
PCB-1262	ND	71	ug/Kg	2	05/29/25	SC	SW8082A	
PCB-1268	ND	71	ug/Kg	2	05/29/25	SC	SW8082A	
QA/QC Surrogates								
% DCBP	76		%	2	05/29/25	SC	30 - 150 %	
% DCBP (Confirmation)	63		%	2	05/29/25	SC	30 - 150 %	
% TCMX	65		%	2	05/29/25	SC	30 - 150 %	
% TCMX (Confirmation)	61		%	2	05/29/25	SC	30 - 150 %	
Pesticides - Soil								
4,4' -DDD	3.8	2.1	ug/Kg	2	05/28/25	AW	SW8081B	

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-3

Phoenix I.D.: CT35389

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4,4' -DDE	ND	2.1	ug/Kg	2	05/28/25	AW	SW8081B	
4,4' -DDT	ND	2.1	ug/Kg	2	05/28/25	AW	SW8081B	
a-BHC	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
a-Chlordane	ND	5.0	ug/Kg	2	05/28/25	AW	SW8081B	
Aldrin	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
b-BHC	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Chlordane	ND	36	ug/Kg	2	05/28/25	AW	SW8081B	
d-BHC	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Dieldrin	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan I	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan II	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan sulfate	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin aldehyde	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin ketone	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
g-BHC	ND	1.4	ug/Kg	2	05/28/25	AW	SW8081B	
g-Chlordane	ND	5.0	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor epoxide	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Methoxychlor	ND	36	ug/Kg	2	05/28/25	AW	SW8081B	
Toxaphene	ND	140	ug/Kg	2	05/28/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	68		%	2	05/28/25	AW	30 - 150 %	
% DCBP (Confirmation)	56		%	2	05/28/25	AW	30 - 150 %	
% TCMX	56		%	2	05/28/25	AW	30 - 150 %	
% TCMX (Confirmation)	63		%	2	05/28/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	05/31/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	65		%	10	05/31/25	JRB	30 - 150 %	
% DCAA (Confirmation)	67		%	10	05/31/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	05/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-BHC (Lindane)	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/30/25	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	66		%	10	05/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	107		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	65		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	61		%	10	05/30/25	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	410	mg/Kg	5	05/28/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	55		%	5	05/28/25	JRB	50 - 150 %
% Terphenyl (surr)	72		%	5	05/28/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,1-Dichloroethene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,2,4-Trimethylbenzene	16	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
2-Hexanone	ND	29	ug/kg	1	05/23/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	29	ug/kg	1	05/23/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/23/25	JLI	SW8260D
Benzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Bromochloromethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Bromodichloromethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Bromoform	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Bromomethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Carbon Disulfide	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Carbon tetrachloride	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Chlorobenzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Chloroethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Chloroform	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Chloromethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Cyclohexane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Dibromochloromethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Ethylbenzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Isopropylbenzene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
m&p-Xylene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Methyl ethyl ketone	ND	34	ug/kg	1	05/23/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	05/23/25	JLI	SW8260D
Methylacetate	ND	29	ug/kg	1	05/23/25	JLI	SW8260D
Methylcyclohexane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Methylene chloride	ND	29	ug/kg	1	05/23/25	JLI	SW8260D
o-Xylene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Styrene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Tetrachloroethene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Toluene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Total Xylenes	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Trichloroethene	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
Vinyl chloride	ND	5.7	ug/kg	1	05/23/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	05/23/25	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	05/23/25	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	05/23/25	JLI	70 - 130 %
% Toluene-d8	85		%	1	05/23/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	86	ug/kg	1	05/23/25	JLI	SW8260D
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	97		%	10	05/29/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	05/29/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	05/29/25	MH	70 - 130 %
% Toluene-d8 (10x)	96		%	10	05/29/25	MH	70 - 130 %
Volatile Library Search	Completed				05/27/25	JLI	

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-3

Phoenix I.D.: CT35389

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles								
1,1-Biphenyl	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	870	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chlorophenol	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitroaniline	ND	870	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitrophenol	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	650	ug/Kg	1	05/28/25	MR	SW8270E	
3-Nitroaniline	ND	870	ug/Kg	1	05/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1600	ug/Kg	1	05/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	550	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloroaniline	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitroaniline	ND	870	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitrophenol	ND	1600	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthylene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Acetophenone	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Anthracene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Atrazine	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Benz(a)anthracene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Benzaldehyde	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(a)pyrene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(b)fluoranthene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(ghi)perylene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(k)fluoranthene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	550	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Caprolactam	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Carbazole	ND	550	ug/Kg	1	05/28/25	MR	SW8270E	
Chrysene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenzofuran	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	
Diethyl phthalate	ND	380	ug/Kg	1	05/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-butylphthalate	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-octylphthalate	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Fluoranthene	440	380	ug/Kg	1	05/28/25	MR	SW8270E
Fluorene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobenzene	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobutadiene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Hexachloroethane	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Isophorone	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Naphthalene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Nitrobenzene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	550	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	550	ug/Kg	1	05/28/25	MR	SW8270E
Pentachlorophenol	ND	550	ug/Kg	1	05/28/25	MR	SW8270E
Phenanthrene	ND	380	ug/Kg	1	05/28/25	MR	SW8270E
Phenol	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Pyrene	470	380	ug/Kg	1	05/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	62		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorophenol	61		%	1	05/28/25	MR	30 - 130 %
% Nitrobenzene-d5	66		%	1	05/28/25	MR	30 - 130 %
% Phenol-d5	63		%	1	05/28/25	MR	30 - 130 %
% Terphenyl-d14	63		%	1	05/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	74		%	1	05/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	05/30/25	MR	30 - 130 %
% 2-Fluorophenol	62		%	1	05/30/25	MR	15 - 110 %
% Nitrobenzene-d5	66		%	1	05/30/25	MR	30 - 130 %
% Phenol-d5	54		%	1	05/30/25	MR	15 - 110 %
% Terphenyl-d14	68		%	1	05/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				05/29/25	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.

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
June 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

June 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:		05/22/25	10:20
Location Code:	AES-INC	Received by:	CP	05/23/25	17:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0703				

Laboratory Data

SDG ID: GCT35387
Phoenix ID: CT35390

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Aluminum	5580	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Arsenic	4.43	0.78	mg/Kg	1	05/27/25	CPP	SW6010D
Barium	47.4	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Beryllium	< 0.31	0.31	mg/Kg	1	05/27/25	CPP	SW6010D
Calcium	16200	59	mg/Kg	10	05/27/25	CPP	SW6010D
Cadmium	< 0.39	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Cobalt	5.51	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Chromium	17.9	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Copper	35.1	0.8	mg/kg	1	05/27/25	CPP	SW6010D
Iron	13500	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Mercury	< 0.14	0.14	mg/Kg	1	05/23/25	JM	SW7473
Potassium	786	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Magnesium	2930	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Manganese	209	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Sodium	211	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Nickel	15.1	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Lead	48.6	0.39	mg/Kg	1	05/27/25	CPP	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	05/27/25	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/27/25	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Barium	0.61	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/29/25	JM	SW846 1311/7470
TCLP Lead	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010D

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-4

Phoenix I.D.: CT35390

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.5	3.5	mg/Kg	1	05/27/25	CPP	SW6010D	
TCLP Metals Digestion	Completed				05/29/25	AK/GW	SW3010A	
Vanadium	29.9	0.39	mg/Kg	1	05/27/25	CPP	SW6010D	
Zinc	57.1	0.8	mg/Kg	1	05/27/25	CPP	SW6010D	
Percent Solid	89		%		05/23/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	05/23/25	KG	SW846-Corr	1
Flash Point	>200	200	Degree F	1	05/27/25	G	SW1010B	
Ignitability	Passed	140	degree F	1	05/27/25	G	SW846-Ignit	1
pH at 19C - Soil	8.92	1.00	pH Units	1	05/23/25 22:54	KG	SW846 9045D	
Reactivity Cyanide	< 5	5	mg/Kg	1	05/27/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	05/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	05/28/25	NP/GD	SW846-React	1
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/28/25	A/GD	SW9012B	
Extraction of NY ETPH	Completed				05/28/25	SD/DS	SW3546	
Soil Extraction for PCB	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for Pesticides	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for SVOA	Completed				05/28/25	SD/DS	SW3546	
TCLP Digestion Mercury	Completed				05/29/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				05/29/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				05/28/25	AK	SW1311	
TCLP Extraction for Organics	Completed				05/28/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				05/29/25	J/J	SW3510C	
TCLP Semi-Volatile Extraction	Completed				05/29/25	T/T	SW3510C	
TCLP Extraction Volatiles	Completed				05/28/25	AK	SW1311	
Total Metals Digest	Completed				05/23/25	B/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	6.2	mg/Kg	50	05/28/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	110		%	50	05/28/25	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1221	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1232	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1242	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1248	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1254	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1260	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1262	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1268	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
QA/QC Surrogates								
% DCBP	41		%	2	05/28/25	SC	30 - 150 %	
% DCBP (Confirmation)	36		%	2	05/28/25	SC	30 - 150 %	
% TCMX	41		%	2	05/28/25	SC	30 - 150 %	
% TCMX (Confirmation)	40		%	2	05/28/25	SC	30 - 150 %	
Pesticides - Soil								
4,4' -DDD	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-4

Phoenix I.D.: CT35390

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4,4' -DDE	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	
4,4' -DDT	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	
a-BHC	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
a-Chlordane	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Aldrin	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
b-BHC	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Chlordane	ND	37	ug/Kg	2	05/28/25	AW	SW8081B	
d-BHC	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Dieldrin	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan I	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan II	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin aldehyde	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin ketone	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
g-BHC	ND	1.5	ug/Kg	2	05/28/25	AW	SW8081B	
g-Chlordane	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Methoxychlor	ND	37	ug/Kg	2	05/28/25	AW	SW8081B	
Toxaphene	ND	150	ug/Kg	2	05/28/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	32		%	2	05/28/25	AW	30 - 150 %	
% DCBP (Confirmation)	44		%	2	05/28/25	AW	30 - 150 %	
% TCMX	34		%	2	05/28/25	AW	30 - 150 %	
% TCMX (Confirmation)	33		%	2	05/28/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	05/31/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	68		%	10	05/31/25	JRB	30 - 150 %	
% DCAA (Confirmation)	69		%	10	05/31/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	05/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-BHC (Lindane)	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/30/25	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	74		%	10	05/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	47		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	65		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	68		%	10	05/30/25	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	410	mg/Kg	5	05/28/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	63		%	5	05/28/25	JRB	50 - 150 %
% Terphenyl (surr)	69		%	5	05/28/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trimethylbenzene	13	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
2-Hexanone	ND	27	ug/kg	1	05/24/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	27	ug/kg	1	05/24/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/24/25	JLI	SW8260D
Benzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Bromochloromethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Bromodichloromethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Bromoform	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Bromomethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Carbon Disulfide	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Carbon tetrachloride	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Chlorobenzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Chloroethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Chloroform	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Chloromethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Cyclohexane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Dibromochloromethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Ethylbenzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Isopropylbenzene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
m&p-Xylene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Methyl ethyl ketone	ND	32	ug/kg	1	05/24/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	05/24/25	JLI	SW8260D
Methylacetate	ND	4.3	ug/kg	1	05/24/25	JLI	SW8260D
Methylcyclohexane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Methylene chloride	ND	27	ug/kg	1	05/24/25	JLI	SW8260D
o-Xylene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Styrene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Tetrachloroethene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Toluene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Total Xylenes	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Trichloroethene	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
Vinyl chloride	ND	5.3	ug/kg	1	05/24/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	05/24/25	JLI	70 - 130 %
% Bromofluorobenzene	84		%	1	05/24/25	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	05/24/25	JLI	70 - 130 %
% Toluene-d8	84		%	1	05/24/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	80	ug/kg	1	05/24/25	JLI	SW8260D
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	05/29/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	05/29/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	05/29/25	MH	70 - 130 %
% Toluene-d8 (10x)	97		%	10	05/29/25	MH	70 - 130 %
Volatile Library Search	Completed				05/27/25	JLI	

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 85-4

Phoenix I.D.: CT35390

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles								
1,1-Biphenyl	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitroaniline	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitrophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	660	ug/Kg	1	05/28/25	MR	SW8270E	
3-Nitroaniline	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1600	ug/Kg	1	05/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	550	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloroaniline	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitroaniline	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitrophenol	ND	1600	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthylene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Acetophenone	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Anthracene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Atrazine	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benz(a)anthracene	500	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzaldehyde	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(a)pyrene	430	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(b)fluoranthene	550	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(ghi)perylene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(k)fluoranthene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	550	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Caprolactam	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Carbazole	ND	550	ug/Kg	1	05/28/25	MR	SW8270E	
Chrysene	590	390	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenzofuran	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Diethyl phthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-butylphthalate	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-octylphthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Fluoranthene	940	390	ug/Kg	1	05/28/25	MR	SW8270E
Fluorene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobenzene	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobutadiene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Hexachloroethane	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Isophorone	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Naphthalene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Nitrobenzene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	550	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	550	ug/Kg	1	05/28/25	MR	SW8270E
Pentachlorophenol	ND	550	ug/Kg	1	05/28/25	MR	SW8270E
Phenanthrene	700	390	ug/Kg	1	05/28/25	MR	SW8270E
Phenol	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Pyrene	1000	390	ug/Kg	1	05/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	74		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorophenol	64		%	1	05/28/25	MR	30 - 130 %
% Nitrobenzene-d5	72		%	1	05/28/25	MR	30 - 130 %
% Phenol-d5	71		%	1	05/28/25	MR	30 - 130 %
% Terphenyl-d14	71		%	1	05/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	05/30/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	90		%	1	05/30/25	MR	15 - 110 %
% 2-Fluorobiphenyl	76		%	1	05/30/25	MR	30 - 130 %
% 2-Fluorophenol	69		%	1	05/30/25	MR	15 - 110 %
% Nitrobenzene-d5	79		%	1	05/30/25	MR	30 - 130 %
% Phenol-d5	61		%	1	05/30/25	MR	15 - 110 %
% Terphenyl-d14	81		%	1	05/30/25	MR	30 - 130 %
Semivolatile Library Search	Completed				05/29/25	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.

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
June 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

June 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:		05/22/25	10:40
Location Code:	AES-INC	Received by:	CP	05/23/25	17:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0703				

Laboratory Data

SDG ID: GCT35387
Phoenix ID: CT35391

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	05/27/25	CPP	SW6010D
Aluminum	7160	5.7	mg/Kg	1	05/27/25	CPP	SW6010D
Arsenic	3.56	0.76	mg/Kg	1	05/27/25	CPP	SW6010D
Barium	50.1	0.38	mg/Kg	1	05/27/25	CPP	SW6010D
Beryllium	0.45	0.31	mg/Kg	1	05/27/25	CPP	SW6010D
Calcium	8790	5.7	mg/Kg	1	05/27/25	CPP	SW6010D
Cadmium	< 0.38	0.38	mg/Kg	1	05/27/25	CPP	SW6010D
Cobalt	5.40	0.38	mg/Kg	1	05/27/25	CPP	SW6010D
Chromium	17.7	0.38	mg/Kg	1	05/27/25	CPP	SW6010D
Copper	22.1	0.8	mg/kg	1	05/27/25	CPP	SW6010D
Iron	13000	5.7	mg/Kg	1	05/27/25	CPP	SW6010D
Mercury	0.146	0.14	mg/Kg	1	05/23/25	JM	SW7473
Potassium	792	57	mg/Kg	10	05/27/25	CPP	SW6010D
Magnesium	3440	5.7	mg/Kg	1	05/27/25	CPP	SW6010D
Manganese	191	0.38	mg/Kg	1	05/27/25	CPP	SW6010D
Sodium	176	5.7	mg/Kg	1	05/27/25	CPP	SW6010D
Nickel	16.6	0.38	mg/Kg	1	05/27/25	CPP	SW6010D
Lead	58.8	0.38	mg/Kg	1	05/27/25	CPP	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	05/27/25	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/27/25	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Barium	0.39	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/29/25	JM	SW846 1311/7470
TCLP Lead	0.11	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010D

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-1

Phoenix I.D.: CT35391

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.4	3.4	mg/Kg	1	05/27/25	CPP	SW6010D	
TCLP Metals Digestion	Completed				05/29/25	AK/GW	SW3010A	
Vanadium	28.3	0.38	mg/Kg	1	05/27/25	CPP	SW6010D	
Zinc	53.8	0.8	mg/Kg	1	05/27/25	CPP	SW6010D	
Percent Solid	91		%		05/23/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	05/23/25	KG	SW846-Corr	1
Flash Point	>200	200	Degree F	1	05/27/25	G	SW1010B	
Ignitability	Passed	140	degree F	1	05/27/25	G	SW846-Ignit	1
pH at 19C - Soil	9.40	1.00	pH Units	1	05/23/25 22:54	KG	SW846 9045D	
Reactivity Cyanide	< 5	5	mg/Kg	1	05/27/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	05/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	05/28/25	NP/GD	SW846-React	1
Total Cyanide (SW9010C Distill.)	< 0.55	0.55	mg/Kg	1	05/28/25	A/GD	SW9012B	
Extraction of NY ETPH	Completed				05/28/25	SD/DS	SW3546	
Soil Extraction for PCB	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for Pesticides	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for SVOA	Completed				05/28/25	SD/DS	SW3546	
TCLP Digestion Mercury	Completed				05/29/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				05/29/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				05/28/25	AK	SW1311	
TCLP Extraction for Organics	Completed				05/28/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				05/29/25	J/J	SW3510C	
TCLP Semi-Volatile Extraction	Completed				05/30/25	J/J	SW3510C	
TCLP Extraction Volatiles	Completed				05/28/25	AK	SW1311	
Total Metals Digest	Completed				05/23/25	B/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	5.9	mg/Kg	50	05/28/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	100		%	50	05/28/25	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1221	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1232	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1242	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1248	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1254	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1260	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1262	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1268	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
QA/QC Surrogates								
% DCBP	53		%	2	05/28/25	SC	30 - 150 %	
% DCBP (Confirmation)	49		%	2	05/28/25	SC	30 - 150 %	
% TCMX	48		%	2	05/28/25	SC	30 - 150 %	
% TCMX (Confirmation)	48		%	2	05/28/25	SC	30 - 150 %	
Pesticides - Soil								
4,4' -DDD	ND	2.1	ug/Kg	2	05/28/25	AW	SW8081B	

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-1

Phoenix I.D.: CT35391

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4,4' -DDE	ND	2.1	ug/Kg	2	05/28/25	AW	SW8081B	
4,4' -DDT	ND	2.1	ug/Kg	2	05/28/25	AW	SW8081B	
a-BHC	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
a-Chlordane	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
Aldrin	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
b-BHC	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Chlordane	ND	36	ug/Kg	2	05/28/25	AW	SW8081B	
d-BHC	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Dieldrin	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan I	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan II	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin aldehyde	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin ketone	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
g-BHC	ND	1.4	ug/Kg	2	05/28/25	AW	SW8081B	
g-Chlordane	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Methoxychlor	ND	36	ug/Kg	2	05/28/25	AW	SW8081B	
Toxaphene	ND	140	ug/Kg	2	05/28/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	40		%	2	05/28/25	AW	30 - 150 %	
% DCBP (Confirmation)	56		%	2	05/28/25	AW	30 - 150 %	
% TCMX	40		%	2	05/28/25	AW	30 - 150 %	
% TCMX (Confirmation)	42		%	2	05/28/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	05/31/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	67		%	10	05/31/25	JRB	30 - 150 %	
% DCAA (Confirmation)	69		%	10	05/31/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	05/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-BHC (Lindane)	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/30/25	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	76		%	10	05/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	68		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	69		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	75		%	10	05/30/25	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	270	mg/Kg	5	05/28/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	51		%	5	05/28/25	JRB	50 - 150 %
% Terphenyl (surr)	62		%	5	05/28/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
2-Hexanone	ND	28	ug/kg	1	05/24/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	28	ug/kg	1	05/24/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/24/25	JLI	SW8260D
Benzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Bromochloromethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Bromodichloromethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Bromoform	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Bromomethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Carbon Disulfide	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Carbon tetrachloride	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Chlorobenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Chloroethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Chloroform	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Chloromethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Cyclohexane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Dibromochloromethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Ethylbenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Isopropylbenzene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
m&p-Xylene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Methyl ethyl ketone	ND	33	ug/kg	1	05/24/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	05/24/25	JLI	SW8260D
Methylacetate	ND	4.4	ug/kg	1	05/24/25	JLI	SW8260D
Methylcyclohexane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Methylene chloride	ND	28	ug/kg	1	05/24/25	JLI	SW8260D
o-Xylene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Styrene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Tetrachloroethene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Toluene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Total Xylenes	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Trichloroethene	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
Vinyl chloride	ND	5.5	ug/kg	1	05/24/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	05/24/25	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	05/24/25	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	05/24/25	JLI	70 - 130 %
% Toluene-d8	86		%	1	05/24/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	83	ug/kg	1	05/24/25	JLI	SW8260D
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	05/29/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	05/29/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	05/29/25	MH	70 - 130 %
% Toluene-d8 (10x)	97		%	10	05/29/25	MH	70 - 130 %
Volatile Library Search	Completed				05/27/25	JLI	

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-1

Phoenix I.D.: CT35391

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles								
1,1-Biphenyl	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	580	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitroaniline	ND	580	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	440	ug/Kg	1	05/28/25	MR	SW8270E	
3-Nitroaniline	ND	580	ug/Kg	1	05/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitroaniline	ND	580	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthylene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Acetophenone	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Anthracene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Atrazine	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Benz(a)anthracene	310	260	ug/Kg	1	05/28/25	MR	SW8270E	
Benzaldehyde	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(a)pyrene	300	260	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(b)fluoranthene	400	260	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Caprolactam	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Carbazole	ND	360	ug/Kg	1	05/28/25	MR	SW8270E	
Chrysene	350	260	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenzofuran	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	
Diethyl phthalate	ND	260	ug/Kg	1	05/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-butylphthalate	ND	730	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Fluoranthene	640	260	ug/Kg	1	05/28/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobutadiene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	360	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	05/28/25	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/28/25	MR	SW8270E
Phenanthrene	480	260	ug/Kg	1	05/28/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/28/25	MR	SW8270E
Pyrene	650	260	ug/Kg	1	05/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	64		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorophenol	63		%	1	05/28/25	MR	30 - 130 %
% Nitrobenzene-d5	72		%	1	05/28/25	MR	30 - 130 %
% Phenol-d5	69		%	1	05/28/25	MR	30 - 130 %
% Terphenyl-d14	60		%	1	05/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	81		%	1	05/31/25	MR	15 - 110 %
% 2-Fluorobiphenyl	67		%	1	05/31/25	MR	30 - 130 %
% 2-Fluorophenol	52		%	1	05/31/25	MR	15 - 110 %
% Nitrobenzene-d5	71		%	1	05/31/25	MR	30 - 130 %
% Phenol-d5	52		%	1	05/31/25	MR	15 - 110 %
% Terphenyl-d14	79		%	1	05/31/25	MR	30 - 130 %
Semivolatile Library Search	Completed				05/29/25	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.

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.

TPH Comment:
The sample chromatorgram exhibited non-DRO material outside the C10-C28 range.

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
June 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

June 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:		05/22/25	10:45
Location Code:	AES-INC	Received by:	CP	05/23/25	17:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0703				

Laboratory Data

SDG ID: GCT35387
Phoenix ID: CT35392

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/27/25	CPP	SW6010D
Aluminum	6190	5.6	mg/Kg	1	05/27/25	CPP	SW6010D
Arsenic	5.63	0.74	mg/Kg	1	05/27/25	CPP	SW6010D
Barium	55.1	0.37	mg/Kg	1	05/27/25	CPP	SW6010D
Beryllium	0.30	0.30	mg/Kg	1	05/27/25	CPP	SW6010D
Calcium	22600	56	mg/Kg	10	05/27/25	CPP	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	05/27/25	CPP	SW6010D
Cobalt	5.07	0.37	mg/Kg	1	05/27/25	CPP	SW6010D
Chromium	20.6	0.37	mg/Kg	1	05/27/25	CPP	SW6010D
Copper	23.0	0.7	mg/kg	1	05/27/25	CPP	SW6010D
Iron	13000	5.6	mg/Kg	1	05/27/25	CPP	SW6010D
Mercury	< 0.14	0.14	mg/Kg	1	05/23/25	JM	SW7473
Potassium	849	56	mg/Kg	10	05/27/25	CPP	SW6010D
Magnesium	3500	5.6	mg/Kg	1	05/27/25	CPP	SW6010D
Manganese	207	0.37	mg/Kg	1	05/27/25	CPP	SW6010D
Sodium	218	5.6	mg/Kg	1	05/27/25	CPP	SW6010D
Nickel	16.5	0.37	mg/Kg	1	05/27/25	CPP	SW6010D
Lead	65.9	0.37	mg/Kg	1	05/27/25	CPP	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/27/25	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/27/25	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Barium	0.51	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/29/25	JM	SW846 1311/7470
TCLP Lead	0.16	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010D

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.3	3.3	mg/Kg	1	05/27/25	CPP	SW6010D	
TCLP Metals Digestion	Completed				05/29/25	AK/GW	SW3010A	
Vanadium	32.6	0.37	mg/Kg	1	05/27/25	CPP	SW6010D	
Zinc	61.0	0.7	mg/Kg	1	05/27/25	CPP	SW6010D	
Percent Solid	91		%		05/23/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	05/23/25	KG	SW846-Corr	1
Flash Point	>200	200	Degree F	1	05/27/25	G	SW1010B	
Ignitability	Passed	140	degree F	1	05/27/25	G	SW846-Ignit	1
pH at 19C - Soil	8.82	1.00	pH Units	1	05/23/25 22:54	KG	SW846 9045D	
Reactivity Cyanide	< 5	5	mg/Kg	1	05/27/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	05/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	05/28/25	NP/GD	SW846-React	1
Total Cyanide (SW9010C Distill.)	< 0.55	0.55	mg/Kg	1	05/28/25	A/GD	SW9012B	
Extraction of NY ETPH	Completed				05/28/25	SD/DS	SW3546	
Soil Extraction for PCB	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for Pesticides	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for SVOA	Completed				05/28/25	SD/DS	SW3546	
TCLP Digestion Mercury	Completed				05/29/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				05/29/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				05/28/25	AK	SW1311	
TCLP Extraction for Organics	Completed				05/28/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				05/29/25	J/J	SW3510C	
TCLP Semi-Volatile Extraction	Completed				05/30/25	J/J	SW3510C	
TCLP Extraction Volatiles	Completed				05/28/25	AK	SW1311	
Total Metals Digest	Completed				05/23/25	B/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	5.9	mg/Kg	50	05/28/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	98		%	50	05/28/25	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1221	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1232	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1242	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1248	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1254	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1260	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1262	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1268	ND	72	ug/Kg	2	05/28/25	SC	SW8082A	
QA/QC Surrogates								
% DCBP	56		%	2	05/28/25	SC	30 - 150 %	
% DCBP (Confirmation)	52		%	2	05/28/25	SC	30 - 150 %	
% TCMX	57		%	2	05/28/25	SC	30 - 150 %	
% TCMX (Confirmation)	56		%	2	05/28/25	SC	30 - 150 %	
Pesticides - Soil								
4,4' -DDD	ND	3.3	ug/Kg	2	05/28/25	AW	SW8081B	

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-2

Phoenix I.D.: CT35392

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4,4' -DDE	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	
4,4' -DDT	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	
a-BHC	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
a-Chlordane	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
Aldrin	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
b-BHC	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Chlordane	ND	36	ug/Kg	2	05/28/25	AW	SW8081B	
d-BHC	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Dieldrin	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan I	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan II	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin aldehyde	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin ketone	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
g-BHC	ND	1.4	ug/Kg	2	05/28/25	AW	SW8081B	
g-Chlordane	ND	3.6	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/28/25	AW	SW8081B	
Methoxychlor	ND	36	ug/Kg	2	05/28/25	AW	SW8081B	
Toxaphene	ND	140	ug/Kg	2	05/28/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	45		%	2	05/28/25	AW	30 - 150 %	
% DCBP (Confirmation)	80		%	2	05/28/25	AW	30 - 150 %	
% TCMX	48		%	2	05/28/25	AW	30 - 150 %	
% TCMX (Confirmation)	59		%	2	05/28/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	05/31/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	64		%	10	05/31/25	JRB	30 - 150 %	
% DCAA (Confirmation)	66		%	10	05/31/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	05/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-BHC (Lindane)	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/30/25	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	68		%	10	05/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	61		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	58		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	62		%	10	05/30/25	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	810	mg/Kg	5	05/28/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	71		%	5	05/28/25	JRB	50 - 150 %
% Terphenyl (surr)	79		%	5	05/28/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromoethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloroethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloropropane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
2-Hexanone	ND	29	ug/kg	1	05/24/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	29	ug/kg	1	05/24/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/24/25	JLI	SW8260D
Benzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Bromochloromethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Bromodichloromethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Bromoform	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Bromomethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Carbon Disulfide	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Carbon tetrachloride	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Chlorobenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Chloroethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Chloroform	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Chloromethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Cyclohexane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Dibromochloromethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Dichlorodifluoromethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Ethylbenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Isopropylbenzene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
m&p-Xylene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Methyl ethyl ketone	ND	35	ug/kg	1	05/24/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	05/24/25	JLI	SW8260D
Methylacetate	ND	4.7	ug/kg	1	05/24/25	JLI	SW8260D
Methylcyclohexane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Methylene chloride	ND	29	ug/kg	1	05/24/25	JLI	SW8260D
o-Xylene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Styrene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Tetrachloroethene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Toluene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Total Xylenes	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Trichloroethene	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorofluoromethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
Vinyl chloride	ND	5.8	ug/kg	1	05/24/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	05/24/25	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	05/24/25	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	05/24/25	JLI	70 - 130 %
% Toluene-d8	84		%	1	05/24/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	87	ug/kg	1	05/24/25	JLI	SW8260D
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	97		%	10	05/29/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	05/29/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	100		%	10	05/29/25	MH	70 - 130 %
% Toluene-d8 (10x)	99		%	10	05/29/25	MH	70 - 130 %
Volatile Library Search	Completed				05/27/25	JLI	

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-2

Phoenix I.D.: CT35392

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles								
1,1-Biphenyl	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	1700	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chlorophenol	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitroaniline	ND	1700	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitrophenol	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	1	05/28/25	MR	SW8270E	
3-Nitroaniline	ND	1700	ug/Kg	1	05/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	3100	ug/Kg	1	05/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloroaniline	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitroaniline	ND	1700	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitrophenol	ND	3100	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthylene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Acetophenone	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Anthracene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Atrazine	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Benz(a)anthracene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Benzaldehyde	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(a)pyrene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(b)fluoranthene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(ghi)perylene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(k)fluoranthene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Caprolactam	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Carbazole	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E	
Chrysene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenzofuran	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	
Diethyl phthalate	ND	750	ug/Kg	1	05/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-butylphthalate	ND	2100	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-octylphthalate	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Fluoranthene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Fluorene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobenzene	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobutadiene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Hexachloroethane	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	500	ug/Kg	1	05/28/25	MR	SW8270E
Isophorone	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Naphthalene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Nitrobenzene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	530	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E
Pentachlorophenol	ND	800	ug/Kg	1	05/28/25	MR	SW8270E
Phenanthrene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
Phenol	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Pyrene	ND	750	ug/Kg	1	05/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	63		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorophenol	54		%	1	05/28/25	MR	30 - 130 %
% Nitrobenzene-d5	61		%	1	05/28/25	MR	30 - 130 %
% Phenol-d5	59		%	1	05/28/25	MR	30 - 130 %
% Terphenyl-d14	58		%	1	05/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	74		%	1	05/31/25	MR	15 - 110 %
% 2-Fluorobiphenyl	63		%	1	05/31/25	MR	30 - 130 %
% 2-Fluorophenol	55		%	1	05/31/25	MR	15 - 110 %
% Nitrobenzene-d5	69		%	1	05/31/25	MR	30 - 130 %
% Phenol-d5	53		%	1	05/31/25	MR	15 - 110 %
% Terphenyl-d14	75		%	1	05/31/25	MR	30 - 130 %
Semivolatile Library Search	Completed				05/29/25	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.

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
June 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

June 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:		05/22/25	10:48
Location Code:	AES-INC	Received by:	CP	05/23/25	17:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0703				

Laboratory Data

SDG ID: GCT35387
Phoenix ID: CT35393

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	05/27/25	CPP	SW6010D
Aluminum	5270	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Arsenic	3.37	0.79	mg/Kg	1	05/27/25	CPP	SW6010D
Barium	64.1	0.40	mg/Kg	1	05/27/25	CPP	SW6010D
Beryllium	< 0.32	0.32	mg/Kg	1	05/27/25	CPP	SW6010D
Calcium	21100	59	mg/Kg	10	05/27/25	CPP	SW6010D
Cadmium	< 0.40	0.40	mg/Kg	1	05/27/25	CPP	SW6010D
Cobalt	4.29	0.40	mg/Kg	1	05/27/25	CPP	SW6010D
Chromium	14.5	0.40	mg/Kg	1	05/27/25	CPP	SW6010D
Copper	21.3	0.8	mg/kg	1	05/27/25	CPP	SW6010D
Iron	11000	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Mercury	0.196	0.14	mg/Kg	1	05/23/25	JM	SW7473
Potassium	644	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Magnesium	6970	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Manganese	200	0.40	mg/Kg	1	05/27/25	CPP	SW6010D
Sodium	124	5.9	mg/Kg	1	05/27/25	CPP	SW6010D
Nickel	13.7	0.40	mg/Kg	1	05/27/25	CPP	SW6010D
Lead	70.1	0.40	mg/Kg	1	05/27/25	CPP	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	05/27/25	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/27/25	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Barium	0.58	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Mercury	0.0030	0.0002	mg/L	1	05/29/25	JM	SW846 1311/7470
TCLP Lead	0.19	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010D

Ver 2

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.6	3.6	mg/Kg	1	05/27/25	CPP	SW6010D	
TCLP Metals Digestion	Completed				05/29/25	AK/GW	SW3010A	
Vanadium	23.4	0.40	mg/Kg	1	05/27/25	CPP	SW6010D	
Zinc	69.6	0.8	mg/Kg	1	05/27/25	CPP	SW6010D	
Percent Solid	89		%		05/23/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	05/23/25	KG	SW846-Corr	1
Flash Point	>200	200	Degree F	1	05/27/25	G	SW1010B	
Ignitability	Passed	140	degree F	1	05/27/25	G	SW846-Ignit	1
pH at 19C - Soil	8.20	1.00	pH Units	1	05/23/25 22:54	KG	SW846 9045D	
Reactivity Cyanide	< 6	6	mg/Kg	1	05/27/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	05/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	05/28/25	NP/GD	SW846-React	1
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/28/25	A/GD	SW9012B	
Extraction of NY ETPH	Completed				05/28/25	SD/DS	SW3546	
Soil Extraction for PCB	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for Pesticides	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for SVOA	Completed				05/28/25	SD/DS	SW3546	
TCLP Digestion Mercury	Completed				05/29/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				05/29/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				05/28/25	AK	SW1311	
TCLP Extraction for Organics	Completed				05/28/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				05/29/25	J/J	SW3510C	
TCLP Semi-Volatile Extraction	Completed				05/30/25	J/J	SW3510C	
TCLP Extraction Volatiles	Completed				05/28/25	AK	SW1311	
Total Metals Digest	Completed				05/23/25	B/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	5.7	mg/Kg	50	05/28/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	101		%	50	05/28/25	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1221	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1232	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1242	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1248	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1254	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1260	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1262	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1268	ND	74	ug/Kg	2	05/28/25	SC	SW8082A	
QA/QC Surrogates								
% DCBP	53		%	2	05/28/25	SC	30 - 150 %	
% DCBP (Confirmation)	50		%	2	05/28/25	SC	30 - 150 %	
% TCMX	53		%	2	05/28/25	SC	30 - 150 %	
% TCMX (Confirmation)	52		%	2	05/28/25	SC	30 - 150 %	
Pesticides - Soil								
4,4' -DDD	ND	3.0	ug/Kg	2	05/28/25	AW	SW8081B	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4,4' -DDE	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	
4,4' -DDT	ND	2.2	ug/Kg	2	05/28/25	AW	SW8081B	
a-BHC	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
a-Chlordane	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Aldrin	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
b-BHC	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Chlordane	ND	37	ug/Kg	2	05/28/25	AW	SW8081B	
d-BHC	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Dieldrin	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan I	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan II	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin aldehyde	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin ketone	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
g-BHC	ND	1.5	ug/Kg	2	05/28/25	AW	SW8081B	
g-Chlordane	ND	3.7	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/28/25	AW	SW8081B	
Methoxychlor	ND	37	ug/Kg	2	05/28/25	AW	SW8081B	
Toxaphene	ND	150	ug/Kg	2	05/28/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	40		%	2	05/28/25	AW	30 - 150 %	
% DCBP (Confirmation)	87		%	2	05/28/25	AW	30 - 150 %	
% TCMX	44		%	2	05/28/25	AW	30 - 150 %	
% TCMX (Confirmation)	68		%	2	05/28/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	05/31/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	65		%	10	05/31/25	JRB	30 - 150 %	
% DCAA (Confirmation)	66		%	10	05/31/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	05/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-BHC (Lindane)	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/30/25	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	72		%	10	05/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	64		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	60		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	58		%	10	05/30/25	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	420	mg/Kg	5	05/28/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	64		%	5	05/28/25	JRB	50 - 150 %
% Terphenyl (surr)	72		%	5	05/28/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromoethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloroethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloropropane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
2-Hexanone	ND	24	ug/kg	1	05/24/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	24	ug/kg	1	05/24/25	JLI	SW8260D
Acetone	ND	48	ug/kg	1	05/24/25	JLI	SW8260D
Benzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Bromochloromethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Bromodichloromethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Bromoform	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Bromomethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Carbon Disulfide	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Carbon tetrachloride	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Chlorobenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Chloroethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Chloroform	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Chloromethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Cyclohexane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Dibromochloromethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Dichlorodifluoromethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Ethylbenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Isopropylbenzene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
m&p-Xylene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Methyl ethyl ketone	ND	29	ug/kg	1	05/24/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	9.6	ug/kg	1	05/24/25	JLI	SW8260D
Methylacetate	ND	3.8	ug/kg	1	05/24/25	JLI	SW8260D
Methylcyclohexane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Methylene chloride	ND	24	ug/kg	1	05/24/25	JLI	SW8260D
o-Xylene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Styrene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Tetrachloroethene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Toluene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Total Xylenes	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Trichloroethene	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorofluoromethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
Vinyl chloride	ND	4.8	ug/kg	1	05/24/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	05/24/25	JLI	70 - 130 %
% Bromofluorobenzene	84		%	1	05/24/25	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	05/24/25	JLI	70 - 130 %
% Toluene-d8	86		%	1	05/24/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	72	ug/kg	1	05/24/25	JLI	SW8260D
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	05/29/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	05/29/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	103		%	10	05/29/25	MH	70 - 130 %
% Toluene-d8 (10x)	96		%	10	05/29/25	MH	70 - 130 %
Volatile Library Search	Completed				05/27/25	JLI	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles								
1,1-Biphenyl	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chlorophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitroaniline	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitrophenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	670	ug/Kg	1	05/28/25	MR	SW8270E	
3-Nitroaniline	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1600	ug/Kg	1	05/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	550	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloroaniline	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitroaniline	ND	890	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitrophenol	ND	1600	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthylene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Acetophenone	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Anthracene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Atrazine	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benz(a)anthracene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzaldehyde	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(a)pyrene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(b)fluoranthene	400	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(ghi)perylene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(k)fluoranthene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	550	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Caprolactam	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Carbazole	ND	550	ug/Kg	1	05/28/25	MR	SW8270E	
Chrysene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenzofuran	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	
Diethyl phthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-butylphthalate	ND	1100	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-octylphthalate	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Fluoranthene	490	390	ug/Kg	1	05/28/25	MR	SW8270E
Fluorene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobenzene	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobutadiene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Hexachloroethane	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Isophorone	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Naphthalene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Nitrobenzene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	550	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	550	ug/Kg	1	05/28/25	MR	SW8270E
Pentachlorophenol	ND	550	ug/Kg	1	05/28/25	MR	SW8270E
Phenanthrene	ND	390	ug/Kg	1	05/28/25	MR	SW8270E
Phenol	ND	330	ug/Kg	1	05/28/25	MR	SW8270E
Pyrene	540	390	ug/Kg	1	05/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	57		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	52		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorophenol	45		%	1	05/28/25	MR	30 - 130 %
% Nitrobenzene-d5	50		%	1	05/28/25	MR	30 - 130 %
% Phenol-d5	52		%	1	05/28/25	MR	30 - 130 %
% Terphenyl-d14	53		%	1	05/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	80		%	1	05/31/25	MR	15 - 110 %
% 2-Fluorobiphenyl	63		%	1	05/31/25	MR	30 - 130 %
% 2-Fluorophenol	59		%	1	05/31/25	MR	15 - 110 %
% Nitrobenzene-d5	76		%	1	05/31/25	MR	30 - 130 %
% Phenol-d5	56		%	1	05/31/25	MR	15 - 110 %
% Terphenyl-d14	77		%	1	05/31/25	MR	30 - 130 %
Semivolatile Library Search	Completed				05/29/25	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.

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
June 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

NY # 11301

Analysis Report

June 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:		05/22/25	10:50
Location Code:	AES-INC	Received by:	CP	05/23/25	17:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0703				

Laboratory Data

SDG ID: GCT35387
Phoenix ID: CT35394

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	05/27/25	CPP	SW6010D
Aluminum	5200	5.3	mg/Kg	1	05/27/25	CPP	SW6010D
Arsenic	3.22	0.71	mg/Kg	1	05/27/25	CPP	SW6010D
Barium	56.7	0.35	mg/Kg	1	05/27/25	CPP	SW6010D
Beryllium	< 0.28	0.28	mg/Kg	1	05/27/25	CPP	SW6010D
Calcium	20800	53	mg/Kg	10	05/27/25	CPP	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	05/27/25	CPP	SW6010D
Cobalt	5.45	0.35	mg/Kg	1	05/27/25	CPP	SW6010D
Chromium	14.2	0.35	mg/Kg	1	05/27/25	CPP	SW6010D
Copper	37.1	0.7	mg/kg	1	05/27/25	CPP	SW6010D
Iron	13600	5.3	mg/Kg	1	05/27/25	CPP	SW6010D
Mercury	0.240	0.13	mg/Kg	1	05/23/25	JM	SW7473
Potassium	484	5.3	mg/Kg	1	05/27/25	CPP	SW6010D
Magnesium	7660	5.3	mg/Kg	1	05/27/25	CPP	SW6010D
Manganese	128	0.35	mg/Kg	1	05/27/25	CPP	SW6010D
Sodium	357	5.3	mg/Kg	1	05/27/25	CPP	SW6010D
Nickel	11.4	0.35	mg/Kg	1	05/27/25	CPP	SW6010D
Lead	223	0.35	mg/Kg	1	05/27/25	CPP	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	05/27/25	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/27/25	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Barium	0.79	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/29/25	JM	SW846 1311/7470
TCLP Lead	1.38	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	05/29/25	CPP	SW846 1311/6010D

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-4

Phoenix I.D.: CT35394

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.2	3.2	mg/Kg	1	05/27/25	CPP	SW6010D	
TCLP Metals Digestion	Completed				05/29/25	AK/GW	SW3010A	
Vanadium	36.2	0.35	mg/Kg	1	05/27/25	CPP	SW6010D	
Zinc	90.9	0.7	mg/Kg	1	05/27/25	CPP	SW6010D	
Percent Solid	93		%		05/23/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	05/23/25	KG	SW846-Corr	1
Flash Point	>200	200	Degree F	1	05/27/25	G	SW1010B	
Ignitability	Passed	140	degree F	1	05/27/25	G	SW846-Ignit	1
pH at 19C - Soil	7.92	1.00	pH Units	1	05/23/25 22:54	KG	SW846 9045D	
Reactivity Cyanide	< 5	5	mg/Kg	1	05/27/25	NP/GD	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	05/28/25	NP/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	05/28/25	NP/GD	SW846-React	1
Total Cyanide (SW9010C Distill.)	< 0.54	0.54	mg/Kg	1	05/28/25	A/GD	SW9012B	
Extraction of NY ETPH	Completed				05/28/25	SD/DS	SW3546	
Soil Extraction for PCB	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for Pesticides	Completed				05/27/25	H/Q	SW3546	
Soil Extraction for SVOA	Completed				05/28/25	SD/DS	SW3546	
TCLP Digestion Mercury	Completed				05/29/25	AK/GW	SW7470A	
TCLP Herbicides Extraction	Completed				05/29/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				05/28/25	AK	SW1311	
TCLP Extraction for Organics	Completed				05/28/25	AK	SW1311	
TCLP Pesticides Extraction	Completed				05/29/25	J/J	SW3510C	
TCLP Semi-Volatile Extraction	Completed				05/30/25	J/J	SW3510C	
TCLP Extraction Volatiles	Completed				05/28/25	AK	SW1311	
Total Metals Digest	Completed				05/23/25	B/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	6.4	mg/Kg	50	05/28/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	94		%	50	05/28/25	V	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	71	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1221	ND	71	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1232	ND	71	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1242	ND	71	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1248	ND	71	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1254	ND	71	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1260	ND	71	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1262	ND	71	ug/Kg	2	05/28/25	SC	SW8082A	
PCB-1268	ND	71	ug/Kg	2	05/28/25	SC	SW8082A	
QA/QC Surrogates								
% DCBP	67		%	2	05/28/25	SC	30 - 150 %	
% DCBP (Confirmation)	62		%	2	05/28/25	SC	30 - 150 %	
% TCMX	65		%	2	05/28/25	SC	30 - 150 %	
% TCMX (Confirmation)	64		%	2	05/28/25	SC	30 - 150 %	
Pesticides - Soil								
4,4' -DDD	4.0	2.1	ug/Kg	2	05/28/25	AW	SW8081B	

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-4

Phoenix I.D.: CT35394

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4,4' -DDE	ND	2.1	ug/Kg	2	05/28/25	AW	SW8081B	
4,4' -DDT	ND	2.1	ug/Kg	2	05/28/25	AW	SW8081B	
a-BHC	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
a-Chlordane	ND	3.5	ug/Kg	2	05/28/25	AW	SW8081B	
Aldrin	ND	3.5	ug/Kg	2	05/28/25	AW	SW8081B	
b-BHC	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Chlordane	ND	35	ug/Kg	2	05/28/25	AW	SW8081B	
d-BHC	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Dieldrin	ND	3.5	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan I	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan II	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endosulfan sulfate	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin aldehyde	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Endrin ketone	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
g-BHC	ND	2.0	ug/Kg	2	05/28/25	AW	SW8081B	
g-Chlordane	ND	3.5	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Heptachlor epoxide	ND	7.1	ug/Kg	2	05/28/25	AW	SW8081B	
Methoxychlor	ND	35	ug/Kg	2	05/28/25	AW	SW8081B	
Toxaphene	ND	140	ug/Kg	2	05/28/25	AW	SW8081B	
QA/QC Surrogates								
% DCBP	47		%	2	05/28/25	AW	30 - 150 %	
% DCBP (Confirmation)	83		%	2	05/28/25	AW	30 - 150 %	
% TCMX	50		%	2	05/28/25	AW	30 - 150 %	
% TCMX (Confirmation)	52		%	2	05/28/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/31/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	05/31/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	68		%	10	05/31/25	JRB	30 - 150 %	
% DCAA (Confirmation)	66		%	10	05/31/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	05/30/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	05/30/25	AW	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-BHC (Lindane)	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/30/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/30/25	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	87		%	10	05/30/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	77		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	68		%	10	05/30/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	66		%	10	05/30/25	AW	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	260	mg/Kg	5	05/28/25	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	83		%	5	05/28/25	JRB	50 - 150 %
% Terphenyl (surr)	85		%	5	05/28/25	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,1,2-Trichloroethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,1-Dichloroethene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dibromoethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloroethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,2-Dichloropropane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
2-Hexanone	ND	38	ug/kg	1	05/24/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	38	ug/kg	1	05/24/25	JLI	SW8260D
Acetone	ND	50	ug/kg	1	05/24/25	JLI	SW8260D
Benzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Bromochloromethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Bromodichloromethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Bromoform	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Bromomethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Carbon Disulfide	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Carbon tetrachloride	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Chlorobenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Chloroethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Chloroform	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Chloromethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Cyclohexane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Dibromochloromethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Dichlorodifluoromethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Ethylbenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Isopropylbenzene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
m&p-Xylene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Methyl ethyl ketone	ND	46	ug/kg	1	05/24/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	15	ug/kg	1	05/24/25	JLI	SW8260D
Methylacetate	ND	6.1	ug/kg	1	05/24/25	JLI	SW8260D
Methylcyclohexane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Methylene chloride	ND	38	ug/kg	1	05/24/25	JLI	SW8260D
o-Xylene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Styrene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Tetrachloroethene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Toluene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Total Xylenes	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Trichloroethene	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorofluoromethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
Vinyl chloride	ND	7.6	ug/kg	1	05/24/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	05/24/25	JLI	70 - 130 %
% Bromofluorobenzene	84		%	1	05/24/25	JLI	70 - 130 %
% Dibromofluoromethane	109		%	1	05/24/25	JLI	70 - 130 %
% Toluene-d8	83		%	1	05/24/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	100	ug/kg	1	05/24/25	JLI	SW8260D
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Benzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Chloroform	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	05/29/25	MH	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	99		%	10	05/29/25	MH	70 - 130 %
% Bromofluorobenzene (10x)	94		%	10	05/29/25	MH	70 - 130 %
% Dibromofluoromethane (10x)	102		%	10	05/29/25	MH	70 - 130 %
% Toluene-d8 (10x)	97		%	10	05/29/25	MH	70 - 130 %
Volatile Library Search	Completed				05/27/25	JLI	

Ver 2

Project ID: GATEWAY ESTATES-HD161E
Client ID: PILE 86-4

Phoenix I.D.: CT35394

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles								
1,1-Biphenyl	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrophenol	ND	570	ug/Kg	1	05/28/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chloronaphthalene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2-Chlorophenol	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylnaphthalene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitroaniline	ND	570	ug/Kg	1	05/28/25	MR	SW8270E	
2-Nitrophenol	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	05/28/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	430	ug/Kg	1	05/28/25	MR	SW8270E	
3-Nitroaniline	ND	570	ug/Kg	1	05/28/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	05/28/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chloroaniline	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitroaniline	ND	570	ug/Kg	1	05/28/25	MR	SW8270E	
4-Nitrophenol	ND	1000	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Acenaphthylene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Acetophenone	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Anthracene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Atrazine	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Benz(a)anthracene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Benzaldehyde	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(a)pyrene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(b)fluoranthene	270	250	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/28/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Caprolactam	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Carbazole	ND	360	ug/Kg	1	05/28/25	MR	SW8270E	
Chrysene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	05/28/25	MR	SW8270E	
Dibenzofuran	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	
Diethyl phthalate	ND	250	ug/Kg	1	05/28/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-butylphthalate	ND	720	ug/Kg	1	05/28/25	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Fluoranthene	390	250	ug/Kg	1	05/28/25	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorobutadiene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Nitrobenzene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodimethylamine	ND	360	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	180	ug/Kg	1	05/28/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	05/28/25	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/28/25	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Phenol	ND	250	ug/Kg	1	05/28/25	MR	SW8270E
Pyrene	380	250	ug/Kg	1	05/28/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	78		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorobiphenyl	75		%	1	05/28/25	MR	30 - 130 %
% 2-Fluorophenol	67		%	1	05/28/25	MR	30 - 130 %
% Nitrobenzene-d5	79		%	1	05/28/25	MR	30 - 130 %
% Phenol-d5	74		%	1	05/28/25	MR	30 - 130 %
% Terphenyl-d14	69		%	1	05/28/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	05/31/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	71		%	1	05/31/25	MR	15 - 110 %
% 2-Fluorobiphenyl	57		%	1	05/31/25	MR	30 - 130 %
% 2-Fluorophenol	54		%	1	05/31/25	MR	15 - 110 %
% Nitrobenzene-d5	68		%	1	05/31/25	MR	30 - 130 %
% Phenol-d5	52		%	1	05/31/25	MR	15 - 110 %
% Terphenyl-d14	72		%	1	05/31/25	MR	30 - 130 %
Semivolatile Library Search	Completed				06/02/25	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.

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
June 05, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PILE 85-1

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCT35387

Matrix:(soil/water): SOIL Lab Sample ID: CT35387

Sample wt/vol: 5.63 (g/mL) g Lab File ID: 0523_43.D

Level: (low/med): Low Date Received: 05/23/25

% Moisture: not dec. 10 Date Analyzed: 05/23/25

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: PILE 85-2

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCT35387

Matrix:(soil/water): SOIL Lab Sample ID: CT35388

Sample wt/vol: 5.58 (g/mL) g Lab File ID: 0523_44.D

Level: (low/med): Low Date Received: 05/23/25

% Moisture: not dec. 10 Date Analyzed: 05/23/25

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

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

Number TICs found: 16 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
103-65-1	n-Propylbenzene	6.259	5.3	Q
135-98-8	sec-Butylbenzene	6.799	3.4	Q
99-87-6	p-Isopropyltoluene	6.914	2.2	Q
526-73-8	1,2,3-Trimethylbenzene	7.056	29	Q
001120-21-4	Undecane	7.198	460	JN
104-51-8	n-Butylbenzene	7.25	7.5	Q
007045-71-8	Undecane, 2-methyl-	7.780	120	JN
	unknown	7.848	140	J
000629-50-5	Tridecane	8.068	630	JN
017301-28-9	Undecane, 3,6-dimethyl-	8.194	340	JN
	unknown	8.466	100	J
	unknown	8.545	100	J
	unknown	8.629	130	J
91-20-3	Naphthalene	8.77	9.3	Q
001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	9.033	140	JN
013065-07-1	Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethyl-	9.363	160	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: PILE 85-3

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCT35387

Matrix:(soil/water): SOIL Lab Sample ID: CT35389

Sample wt/vol: 4.8 (g/mL) g Lab File ID: 0523_45.D

Level: (low/med): Low Date Received: 05/23/25

% Moisture: not dec. 9 Date Analyzed: 05/23/25

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

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

Number TICs found: 13 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
526-73-8	1,2,3-Trimethylbenzene	7.055	6.6	Q
001120-21-4	Undecane	7.192	69	JN
104-51-8	n-Butylbenzene	7.249	1.8	Q
000544-76-3	Hexadecane	8.057	98	JN
017301-28-9	Undecane, 3,6-dimethyl-	8.194	28	JN
005911-04-6	Nonane, 3-methyl-	8.629	27	JN
91-20-3	Naphthalene	8.77	2	Q
001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	9.027	46	JN
074645-98-0	Dodecane, 2,7,10-trimethyl-	9.284	46	JN
013065-07-1	Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethyl-	9.363	33	JN
000629-50-5	Tridecane	9.384	84	JN
055045-07-3	Dodecane, 2-methyl-8-propyl-	9.751	49	JN
	Hexadecane Isomer	9.924	74	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: PILE 85-4

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCT35387

Matrix:(soil/water): SOIL Lab Sample ID: CT35390

Sample wt/vol: 5.26 (g/mL) g Lab File ID: 0523_46.D

Level: (low/med): Low Date Received: 05/23/25

% Moisture: not dec. 11 Date Analyzed: 05/24/25

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
526-73-8	1,2,3-Trimethylbenzene	7.055	5.5	Q
001120-21-4	Undecane	7.192	51	JN
000544-76-3	Hexadecane	8.057	110	JN
017301-28-9	Undecane, 3,6-dimethyl-	8.194	32	JN
91-20-3	Naphthalene	8.77	1.7	Q
002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-methyl-	9.027	33	JN
074645-98-0	Dodecane, 2,7,10-trimethyl-	9.289	33	JN
	unknown	9.363	33	J
000112-40-3	Dodecane	9.384	130	JN
	unknown	9.656	32	J
055045-07-3	Dodecane, 2-methyl-8-propyl-	9.751	74	JN
000629-50-5	Tridecane	9.924	110	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: PILE 86-1

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCT35387

Matrix:(soil/water) SOIL Lab Sample ID: CT35391

Sample wt/vol: 4.93 (g/mL) g Lab File ID: 0523_47.D

Level: (low/med) Low Date Received: 05/23/25

% Moisture: not dec. 9 Date Analyzed: 05/24/25

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: PILE 86-2

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCT35387

Matrix:(soil/water) SOIL Lab Sample ID: CT35392

Sample wt/vol: 4.72 (g/mL) g Lab File ID: 0523_48.D

Level: (low/med) Low Date Received: 05/23/25

% Moisture: not dec. 9 Date Analyzed: 05/24/25

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: PILE 86-3

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCT35387

Matrix:(soil/water): SOIL Lab Sample ID: CT35393

Sample wt/vol: 5.85 (g/mL) g Lab File ID: 0523_49.D

Level: (low/med): Low Date Received: 05/23/25

% Moisture: not dec. 11 Date Analyzed: 05/24/25

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: PILE 86-4

Lab Name: Phoenix Environmental Labs Client: AES-INC

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCT35387

Matrix:(soil/water) SOIL Lab Sample ID: CT35394

Sample wt/vol: 3.52 (g/mL) g Lab File ID: 0523_50.D

Level: (low/med) Low Date Received: 05/23/25

% Moisture: not dec. 7 Date Analyzed: 05/24/25

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: PILE 85-1

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

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCT35387

Matrix:(soil/water): SOIL | Lab Sample ID: CT35387

Sample wt/vol: 15.02 (g/mL) g | Lab File ID: 0530_07.D

Level: (low/med): Low | Date Received: 05/23/25

% Moisture: not dec. 10 | decanted:(Y/N) NA | Date Extracted: 05/30/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 5/30/2025

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

Injection Volume: 1 (uL)

Number TICs found: 4 | 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-	2.328	780	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.041	740	JNC
074685-33-9	3-Eicosene, (E)-	7.122	560	JN
001599-67-3	1-Docosene	8.562	470	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: PILE 85-2

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

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCT35387

Matrix:(soil/water): SOIL | Lab Sample ID: CT35388

Sample wt/vol: 10.01 (g/mL) g | Lab File ID: 0528_11.D

Level: (low/med): Low | Date Received: 05/23/25

% Moisture: not dec. 10 | decanted:(Y/N) NA | Date Extracted: 05/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 5/28/2025

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

Injection Volume: 1 (uL)

Number TICs found: 4 | 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-	2.541	750	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.281	1900	JNC
000629-50-5	Tridecane	6.991	450	JN
000057-10-3	n-Hexadecanoic acid	7.974	510	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: PILE 85-3

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

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCT35387

Matrix:(soil/water): SOIL | Lab Sample ID: CT35389

Sample wt/vol: 10.07 (g/mL) g | Lab File ID: 0528_12.D

Level: (low/med): Low | Date Received: 05/23/25

% Moisture: not dec. 9 | decanted:(Y/N) NA | Date Extracted: 05/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 5/28/2025

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

Injection Volume: 1 (uL)

Number TICs found: 5 | 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-	2.536	680	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.281	1600	JNC
000544-76-3	Hexadecane	6.574	520	JN
000629-78-7	Heptadecane	6.996	1300	JN
000112-95-8	Eicosane	8.129	480	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: PILE 85-4

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

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCT35387

Matrix:(soil/water): SOIL | Lab Sample ID: CT35390

Sample wt/vol: 10.15 (g/mL) g | Lab File ID: 0528_13.D

Level: (low/med): Low | Date Received: 05/23/25

% Moisture: not dec. 11 | decanted:(Y/N) NA | Date Extracted: 05/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 5/28/2025

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

Injection Volume: 1 (uL)

Number TICs found: 3 | 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-	2.536	800	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.281	1900	JNC
	unknown	6.991	450	J

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: PILE 86-1

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

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCT35387

Matrix:(soil/water): SOIL | Lab Sample ID: CT35391

Sample wt/vol: 15.07 (g/mL) g | Lab File ID: 0528_14.D

Level: (low/med): Low | Date Received: 05/23/25

% Moisture: not dec. 9 | decanted:(Y/N) NA | Date Extracted: 05/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 5/28/2025

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

Injection Volume: 1 (uL)

Number TICs found: 4 | 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-	2.536	760	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.281	1100	JNC
	unknown	7.007	530	J
001454-84-8	n-Nonadecanol-1	7.370	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.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PILE 86-2

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

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCT35387

Matrix:(soil/water): SOIL | Lab Sample ID: CT35392

Sample wt/vol: 5.1599998 (g/mL) g | Lab File ID: 0528_16.D

Level: (low/med): Low | Date Received: 05/23/25

% Moisture: not dec. 9 | decanted:(Y/N) NA | Date Extracted: 05/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 5/28/2025

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

Injection Volume: 1 (uL)

Number TICs found: 6 | 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-	2.541	1400	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.286	2800	JNC
1000130-97-9	E-15-Heptadecenal	7.370	2100	JN
000057-10-3	n-Hexadecanoic acid	7.979	1100	JN
	unknown	10.159	860	J
	unknown	10.277	1200	J

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: PILE 86-3

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

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCT35387

Matrix:(soil/water): SOIL | Lab Sample ID: CT35393

Sample wt/vol: 10.13 (g/mL) g | Lab File ID: 0528_17.D

Level: (low/med): Low | Date Received: 05/23/25

% Moisture: not dec. 11 | decanted:(Y/N) NA | Date Extracted: 05/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 5/28/2025

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

Injection Volume: 1 (uL)

Number TICs found: 3 | 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-	2.541	610	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.286	1400	JNC
1000130-97-9	E-15-Heptadecenal	7.370	1000	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: PILE 86-4

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

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCT35387

Matrix:(soil/water): SOIL | Lab Sample ID: CT35394

Sample wt/vol: 15 (g/mL) g | Lab File ID: 0528_19.D

Level: (low/med): Low | Date Received: 05/23/25

% Moisture: not dec. 7 | decanted:(Y/N) NA | Date Extracted: 05/28/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 5/28/2025

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

Injection Volume: 1 (uL)

Number TICs found: 6 | 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-	2.536	1600	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	6.286	1200	JNC
013798-23-7	Sulfur	6.553	980	JN
	unknown	6.997	380	J
018435-45-5	1-Nonadecene	7.370	870	JN
1000194-64-2	4,4,6a,6b,8a,11,12,14b-Octamethyl-	17.344	930	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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

June 05, 2025

QA/QC Data

SDG I.D.: GCT35387

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 786472 (mg/L), QC Sample No: CT34588 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	100			96.2			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 785963 (mg/kg), QC Sample No: CT35013 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)														
Mercury - Soil	BRL	0.13	<0.16	<0.16	NC	100			112			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 785931 (mg/kg), QC Sample No: CT35387 (CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)														
ICP Metals - Soil														
Aluminum	BRL	5.0	5170	5100	1.40	85.8	85.7	0.1	NC			75 - 125	30	
Antimony	BRL	3.3	<3.9	<3.7	NC	87.9	92.1	4.7	94.0			75 - 125	30	
Arsenic	BRL	0.67	2.75	2.65	NC	96.6	96.3	0.3	95.3			75 - 125	30	
Barium	BRL	0.33	47.0	44.6	5.20	97.8	90.4	7.9	117			75 - 125	30	
Beryllium	BRL	0.27	<0.31	<0.29	NC	103	104	1.0	101			75 - 125	30	
Cadmium	BRL	0.33	<0.39	<0.37	NC	102	107	4.8	102			75 - 125	30	
Calcium	BRL	5.0	5730	6900	18.5	105	103	1.9	NC			75 - 125	30	
Chromium	BRL	0.33	12.2	12.3	0.80	104	105	1.0	101			75 - 125	30	
Cobalt	BRL	0.33	4.26	4.04	5.30	106	107	0.9	102			75 - 125	30	
Copper	BRL	0.67	17.3	19.8	13.5	103	103	0.0	111			75 - 125	30	
Iron	BRL	5.0	11500	10800	6.30	88.2	87.5	0.8	NC			75 - 125	30	
Lead	BRL	0.33	139	169	19.5	101	98.1	2.9	95.9			75 - 125	30	
Magnesium	BRL	5.0	2440	2150	12.6	109	109	0.0	NC			75 - 125	30	
Manganese	BRL	0.33	162	169	4.20	112	103	8.4	108			75 - 125	30	
Nickel	BRL	0.33	11.5	12.3	6.70	107	107	0.0	101			75 - 125	30	
Potassium	BRL	5.0	571	587	2.80	106	107	0.9	117			75 - 125	30	
Selenium	BRL	1.3	<1.5	<1.5	NC	88.3	89.0	0.8	86.8			75 - 125	30	
Silver	BRL	0.33	<0.39	<0.37	NC	102	101	1.0	98.7			75 - 125	30	
Sodium	BRL	5.0	103	98.3	4.70	121	122	0.8	>130			75 - 125	30	m
Thallium	BRL	3.0	<3.5	<3.3	NC	97.3	107	9.5	100			75 - 125	30	
Vanadium	BRL	0.33	23.9	19.4	20.8	106	106	0.0	101			75 - 125	30	
Zinc	BRL	0.67	49.8	53.2	6.60	102	101	1.0	102			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%.														
QA/QC Batch 786478 (mg/L), QC Sample No: CT36541 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)														
ICP Metals - TCLP Extraction														
Arsenic	BRL	0.01	<0.01	<0.01	NC	110	110	0.0	110			80 - 120	20	

QA/QC Data

SDG I.D.: GCT35387

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Barium	BRL	0.01	0.48	0.49	2.10	103	103	0.0	102			80 - 120	20	
Cadmium	BRL	0.005	<0.005	<0.005	NC	100	100	0.0	96.6			80 - 120	20	
Chromium	BRL	0.010	<0.010	<0.010	NC	100	101	1.0	99.0			80 - 120	20	
Lead	BRL	0.010	0.108	0.109	0.90	97.9	98.5	0.6	95.8			80 - 120	20	
Selenium	BRL	0.05	<0.05	<0.05	NC	108	108	0.0	106			80 - 120	20	
Silver	BRL	0.010	<0.010	<0.010	NC	111	112	0.9	113			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 Batch 787234 (mg/kg), QC Sample No: CT42141 (CT35387)

ICP Metals - Soil

Aluminum	BRL	12	11000	12000	8.70	83.0	87.0	4.7	NC	NC	NC	75 - 125	30	
Antimony	BRL	3.3	<3.7	<3.9	NC	86.7	92.5	6.5	79.8	80.6	1.0	75 - 125	30	
Arsenic	BRL	0.67	6.21	6.47	4.10	90.9	95.2	4.6	86.5	88.7	2.5	75 - 125	30	
Barium	BRL	0.5	129	132	2.30	94.6	99.7	5.2	102	97.2	4.8	75 - 125	30	
Beryllium	BRL	0.27	0.86	0.91	NC	98.0	109	10.6	93.6	95.6	2.1	75 - 125	30	
Cadmium	BRL	0.33	0.40	0.52	NC	96.8	107	10.0	92.1	93.7	1.7	75 - 125	30	
Calcium	BRL	55	2180	2450	11.7	97.9	108	9.8	NC	NC	NC	75 - 125	30	
Chromium	BRL	1.0	25.3	30.9	19.9	100	108	7.7	93.6	99.3	5.9	75 - 125	30	
Cobalt	BRL	0.33	16.6	19.3	15.0	100	111	10.4	91.6	95.8	4.5	75 - 125	30	
Copper	BRL	10	59.7	71.1	17.4	100	111	10.4	94.0	104	10.1	75 - 125	30	
Iron	BRL	1000	33200	38100	13.7	81.9	83.4	1.8	NC	NC	NC	75 - 125	30	
Lead	BRL	0.60	16.0	15.8	1.30	94.5	98.7	4.3	90.5	92.7	2.4	75 - 125	30	
Magnesium	BRL	20	5510	6240	12.4	102	107	4.8	NC	NC	NC	75 - 125	30	
Manganese	BRL	6.0	965	1210	22.5	92.1	110	17.7	NC	NC	NC	75 - 125	30	
Nickel	BRL	0.75	22.7	25.4	11.2	99.9	110	9.6	94.9	98.4	3.6	75 - 125	30	
Potassium	BRL	5.0	2570	2420	6.00	109	115	5.4	>130	>130	NC	75 - 125	30	m
Selenium	BRL	1.3	<1.5	<1.6	NC	81.8	89.5	9.0	77.0	81.6	5.8	75 - 125	30	
Silver	BRL	0.33	<0.37	<0.39	NC	96.3	102	5.7	92.6	94.8	2.3	75 - 125	30	
Sodium	BRL	5.0	443	507	13.5	106	114	7.3	>130	>130	NC	75 - 125	30	m
Thallium	BRL	3.0	<3.4	<3.5	NC	95.7	101	5.4	92.3	94.3	2.1	75 - 125	30	
Vanadium	BRL	0.33	70.3	86.6	20.8	101	108	6.7	90.5	104	13.9	75 - 125	30	
Zinc	BRL	4.0	68.2	79.8	15.7	97.8	105	7.1	93.5	104	10.6	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.

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

NY # 11301

QA/QC Report

June 05, 2025

QA/QC Data

SDG I.D.: GCT35387

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 786101 (mg/Kg), QC Sample No: CT33566 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.57	<0.57	NC	109	117	7.1	102			80 - 120	30
Comment:													
Additional: MS acceptance range is 75-125%.													
QA/QC Batch 786069 (mg/Kg), QC Sample No: CT35390 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)													
Reactivity Cyanide	BRL	5	<5	<5.4	NC	96.2						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	96.0						80 - 120	30
QA/QC Batch 786136 (Degree F), QC Sample No: CT33896 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)													
Flash Point			>200	>200	NC	101						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 785988 (PH), QC Sample No: CT33896 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)													
pH			10.6	10.6	0	100						85 - 115	20

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NY # 11301

QA/QC Report

June 05, 2025

QA/QC Data

SDG I.D.: GCT35387

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 786241 (mg/Kg), QC Sample No: CT35382 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum HC	ND	50	78	71	9.4	69	72	4.3	30 - 130	30
% COD (surr)	73	%	99	91	8.4	88	72	20.0	50 - 150	30
% Terphenyl (surr)	84	%	89	87	2.3	84	103	20.3	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 786300 (mg/Kg), QC Sample No: CT35401 (CT35387 (50X) , CT35388 (50X) , CT35389 (50X) , CT35390 (50X) , CT35391 (50X) , CT35392 (50X) , CT35393 (50X) , CT35394 (50X))										
Gasoline Range Hydrocarbons (C6C10) - Soil										
GRO (C6-C10)	ND	0.10	99	97	2.0	111	109	1.8	70 - 130	30
% 2,5-Dibromotoluene (FID)	98	%	98	98	0.0	98	95	3.1	70 - 130	30
QA/QC Batch 786484 (ug/L), QC Sample No: CT33605 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)										
TCLP Herbicides										
2,4,5-TP (Silvex)	ND	50	76	83	8.8	89			40 - 140	20
2,4-D	ND	100	84	91	8.0	96			40 - 140	20
% DCAA	63	%	64	65	1.6	68			30 - 150	20
% DCAA (Confirmation)	62	%	64	64	0.0	64			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 786180 (ug/Kg), QC Sample No: CT35394 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	33	87	89	2.3	89	78	13.2	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	89	2.3	79	68	15.0	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	94	%	103	108	4.7	105	85	21.1	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	105	%	112	116	3.5	114	93	20.3	30 - 150	30
% TCMX (Surrogate Rec)	85	%	90	95	5.4	90	83	8.1	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	88	%	96	100	4.1	97	90	7.5	30 - 150	30

QA/QC Data

SDG I.D.: GCT35387

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 786566 (ug/L), QC Sample No: CT35388 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)											
Pesticides											
4,4' -DDD	ND	0.25	81	79	2.5	71			40 - 140	20	
4,4' -DDE	ND	0.25	81	85	4.8	76			40 - 140	20	
4,4' -DDT	ND	0.25	79	78	1.3	72			40 - 140	20	
a-BHC	ND	0.15	81	87	7.1	74			40 - 140	20	
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20	
Aldrin	ND	0.15	75	80	6.5	70			40 - 140	20	
b-BHC	ND	0.15	87	96	9.8	83			40 - 140	20	
Chlordane	ND	5.0	86	88	2.3	79			40 - 140	20	
d-BHC	ND	0.50	83	89	7.0	74			40 - 140	20	
Dieldrin	ND	0.15	83	89	7.0	80			40 - 140	20	
Endosulfan I	ND	0.50	85	95	11.1	84			40 - 140	20	
Endosulfan II	ND	0.50	97	89	8.6	79			40 - 140	20	
Endosulfan sulfate	ND	0.50	83	81	2.4	75			40 - 140	20	
Endrin	ND	0.50	84	88	4.7	80			40 - 140	20	
Endrin aldehyde	ND	0.50	74	79	6.5	71			40 - 140	20	
g-BHC	ND	0.15	92	97	5.3	84			40 - 140	20	
Heptachlor	ND	0.50	83	87	4.7	76			40 - 140	20	
Heptachlor epoxide	ND	0.50	76	79	3.9	71			40 - 140	20	
Methoxychlor	ND	0.50	85	84	1.2	70			40 - 140	20	
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20	
% DCBP	92	%	83	80	3.7	70			30 - 150	20	
% DCBP (Confirmation)	76	%	78	75	3.9	68			30 - 150	20	
% TCMX	75	%	80	82	2.5	71			30 - 150	20	
% TCMX (Confirmation)	71	%	82	79	3.7	71			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 786181 (ug/Kg), QC Sample No: CT35394 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	69	75	8.3	115	87	27.7	40 - 140	30	
4,4' -DDE	ND	1.7	68	75	9.8	101	81	22.0	40 - 140	30	
4,4' -DDT	ND	1.7	74	82	10.3	98	81	19.0	40 - 140	30	
a-BHC	ND	1.0	64	69	7.5	82	71	14.4	40 - 140	30	
a-Chlordane	ND	3.3	66	67	1.5	105	74	34.6	40 - 140	30	r
Aldrin	ND	1.0	61	68	10.9	76	62	20.3	40 - 140	30	
b-BHC	ND	1.0	62	68	9.2	82	71	14.4	40 - 140	30	
Chlordane	ND	33	80	46	54.0	113	73	43.0	40 - 140	30	r
d-BHC	ND	3.3	59	65	9.7	59	57	3.4	40 - 140	30	
Dieldrin	ND	1.0	66	74	11.4	89	73	19.8	40 - 140	30	
Endosulfan I	ND	3.3	61	65	6.3	78	64	19.7	40 - 140	30	
Endosulfan II	ND	3.3	69	71	2.9	88	74	17.3	40 - 140	30	
Endosulfan sulfate	ND	3.3	70	76	8.2	87	75	14.8	40 - 140	30	
Endrin	ND	3.3	76	87	13.5	99	80	21.2	40 - 140	30	
Endrin aldehyde	ND	3.3	68	75	9.8	64	62	3.2	40 - 140	30	
Endrin ketone	ND	3.3	74	82	10.3	91	78	15.4	40 - 140	30	
g-BHC	ND	1.0	67	74	9.9	84	74	12.7	40 - 140	30	
g-Chlordane	ND	3.3	80	46	54.0	113	73	43.0	40 - 140	30	r
Heptachlor	ND	3.3	61	67	9.4	74	62	17.6	40 - 140	30	

QA/QC Data

SDG I.D.: GCT35387

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Heptachlor epoxide	ND	3.3	64	70	9.0	95	75	23.5	40 - 140	30	
Methoxychlor	ND	3.3	69	76	9.7	83	79	4.9	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	66	%	64	73	13.1	94	86	8.9	30 - 150	30	
% DCBP (Confirmation)	56	%	54	61	12.2	84	69	19.6	30 - 150	30	
% TCMX	62	%	61	69	12.3	77	61	23.2	30 - 150	30	
% TCMX (Confirmation)	64	%	64	71	10.4	80	70	13.3	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 786589 (ug/kg), QC Sample No: CT34341 (CT35387)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	60	55	8.7	50	58	14.8	40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230	61	56	8.5	50	63	23.0	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	49	46	6.3	50	64	24.6	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	92	78	16.5	89	98	9.6	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	83	74	11.5	74	84	12.7	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	79	70	12.1	67	76	12.6	30 - 130	30	
2,4-Dichlorophenol	ND	130	85	76	11.2	75	91	19.3	30 - 130	30	
2,4-Dimethylphenol	ND	230	99	87	12.9	88	104	16.7	30 - 130	30	
2,4-Dinitrophenol	ND	230	131	95	31.9	129	150	15.1	30 - 130	30	l,m,r
2,4-Dinitrotoluene	ND	130	113	91	21.6	115	121	5.1	30 - 130	30	
2,6-Dinitrotoluene	ND	130	99	84	16.4	94	98	4.2	40 - 140	30	
2-Chloronaphthalene	ND	230	63	58	8.3	53	62	15.7	40 - 140	30	
2-Chlorophenol	ND	230	77	70	9.5	76	101	28.2	30 - 130	30	
2-Methylnaphthalene	ND	230	64	58	9.8	57	70	20.5	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	105	91	14.3	108	129	17.7	40 - 140	30	
2-Nitroaniline	ND	330	198	143	32.3	>200	>200	NC	40 - 140	30	l,m,r
2-Nitrophenol	ND	230	77	71	8.1	67	84	22.5	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	101	87	14.9	106	129	19.6	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	102	85	18.2	75	93	21.4	40 - 140	30	
3-Nitroaniline	ND	330	148	105	34.0	149	158	5.9	40 - 140	30	l,m,r
4,6-Dinitro-2-methylphenol	ND	230	122	97	22.8	127	144	12.5	30 - 130	30	m
4-Bromophenyl phenyl ether	ND	230	63	60	4.9	46	54	16.0	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	109	93	15.8	112	121	7.7	30 - 130	30	
4-Chloroaniline	ND	230	98	84	15.4	84	100	17.4	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	74	66	11.4	64	73	13.1	40 - 140	30	
4-Nitroaniline	ND	230	120	94	24.3	123	121	1.6	40 - 140	30	
4-Nitrophenol	ND	230	156	107	37.3	161	183	12.8	30 - 130	30	l,m,r
Acenaphthene	ND	230	66	60	9.5	55	65	16.7	30 - 130	30	
Acenaphthylene	ND	130	61	55	10.3	52	61	15.9	40 - 140	30	
Acetophenone	ND	230	74	68	8.5	72	99	31.6	40 - 140	30	r
Anthracene	ND	230	74	67	9.9	60	71	16.8	40 - 140	30	
Atrazine	ND	130	79	64	21.0	63	91	36.4	40 - 140	30	r
Benz(a)anthracene	ND	230	68	63	7.6	56	65	14.9	40 - 140	30	
Benzaldehyde	ND	230	99	93	6.3	102	125	20.3	40 - 140	30	
Benzo(a)pyrene	ND	130	67	62	7.8	53	60	12.4	40 - 140	30	
Benzo(b)fluoranthene	ND	160	65	60	8.0	53	60	12.4	40 - 140	30	
Benzo(ghi)perylene	ND	230	66	62	6.3	48	59	20.6	40 - 140	30	
Benzo(k)fluoranthene	ND	230	63	60	4.9	53	58	9.0	40 - 140	30	
Benzyl butyl phthalate	ND	230	71	64	10.4	61	68	10.9	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	75	69	8.3	65	78	18.2	40 - 140	30	

QA/QC Data

SDG I.D.: GCT35387

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bis(2-chloroethyl)ether	ND	130	63	60	4.9	64	79	21.0	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	64	61	4.8	52	61	15.9	40 - 140	30	
Caprolactam	ND	230	150	101	39.0	173	177	2.3	40 - 140	30	l,m,r
Carbazole	ND	230	95	79	18.4	84	98	15.4	40 - 140	30	
Chrysene	ND	230	69	63	9.1	55	65	16.7	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	68	63	7.6	51	61	17.9	40 - 140	30	
Dibenzofuran	ND	230	72	67	7.2	62	73	16.3	40 - 140	30	
Diethyl phthalate	ND	230	101	84	18.4	100	107	6.8	40 - 140	30	
Dimethylphthalate	ND	230	104	85	20.1	102	104	1.9	40 - 140	30	
Di-n-butylphthalate	ND	670	86	76	12.3	78	90	14.3	40 - 140	30	
Di-n-octylphthalate	ND	230	71	68	4.3	54	67	21.5	40 - 140	30	
Fluoranthene	ND	230	89	78	13.2	81	97	18.0	40 - 140	30	
Fluorene	ND	230	78	69	12.2	68	78	13.7	40 - 140	30	
Hexachlorobenzene	ND	130	63	59	6.6	39	53	30.4	40 - 140	30	m
Hexachlorobutadiene	ND	230	49	48	2.1	38	44	14.6	40 - 140	30	m
Hexachlorocyclopentadiene	ND	230	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
Hexachloroethane	ND	130	44	44	0.0	36	44	20.0	40 - 140	30	m
Indeno(1,2,3-cd)pyrene	ND	230	66	61	7.9	48	59	20.6	40 - 140	30	
Isophorone	ND	130	75	65	14.3	64	77	18.4	40 - 140	30	
Naphthalene	ND	230	59	55	7.0	53	63	17.2	40 - 140	30	
Nitrobenzene	ND	130	69	64	7.5	68	92	30.0	40 - 140	30	
N-Nitrosodimethylamine	ND	230	73	66	10.1	81	94	14.9	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	76	70	8.2	75	99	27.6	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	88	75	16.0	86	98	13.0	40 - 140	30	
Pentachlorophenol	ND	230	82	73	11.6	69	79	13.5	30 - 130	30	
Phenanthrene	ND	130	74	68	8.5	60	71	16.8	40 - 140	30	
Phenol	ND	230	106	92	14.1	116	135	15.1	30 - 130	30	m
Pyrene	ND	230	90	79	13.0	82	99	18.8	30 - 130	30	
% 2,4,6-Tribromophenol	88	%	79	74	6.5	63	72	13.3	30 - 130	30	
% 2-Fluorobiphenyl	68	%	60	55	8.7	50	58	14.8	30 - 130	30	
% 2-Fluorophenol	63	%	75	68	9.8	74	96	25.9	30 - 130	30	
% Nitrobenzene-d5	69	%	70	64	9.0	69	93	29.6	30 - 130	30	
% Phenol-d5	64	%	94	80	16.1	102	116	12.8	30 - 130	30	
% Terphenyl-d14	73	%	79	72	9.3	72	86	17.7	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 786768 (ug/L), QC Sample No: CT34657 (CT35391, CT35392, CT35393, CT35394)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	54	55	1.8	35			40 - 140	20	m
2,4,5-Trichlorophenol	ND	17	79	79	0.0	55			40 - 140	20	
2,4,6-Trichlorophenol	ND	17	74	80	7.8	51			30 - 130	20	
2,4-Dinitrotoluene	ND	58	83	84	1.2	57			30 - 130	20	
2-Methylphenol (o-cresol)	ND	17	83	90	8.1	58			40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	17	79	80	1.3	55			30 - 130	20	
Hexachlorobenzene	ND	58	71	77	8.1	51			40 - 140	20	
Hexachlorobutadiene	ND	58	56	56	0.0	37			40 - 140	20	m
Hexachloroethane	ND	58	53	55	3.7	33			40 - 140	20	m
Nitrobenzene	ND	58	71	75	5.5	47			40 - 140	20	
Pentachlorophenol	ND	58	83	89	7.0	58			30 - 130	20	
Pyridine	ND	83	37	48	25.9	39			40 - 140	20	l,m,r
% 2,4,6-Tribromophenol	75	%	72	77	6.7	50			15 - 110	20	

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% 2-Fluorobiphenyl	66	%		67	69	2.9	46			30 - 130	20	
% 2-Fluorophenol	58	%		59	60	1.7	40			15 - 110	20	
% Nitrobenzene-d5	74	%		70	72	2.8	45			30 - 130	20	
% Phenol-d5	54	%		55	54	1.8	38			15 - 110	20	
% Terphenyl-d14	76	%		74	75	1.3	55			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 786623 (ug/L), QC Sample No: CT35390 (CT35387, CT35388, CT35389, CT35390)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17		57	52	9.2	50			40 - 140	20	
2,4,5-Trichlorophenol	ND	17		78	80	2.5	70			40 - 140	20	
2,4,6-Trichlorophenol	ND	17		82	84	2.4	73			30 - 130	20	
2,4-Dinitrotoluene	ND	58		79	81	2.5	76			30 - 130	20	
2-Methylphenol (o-cresol)	ND	17		79	76	3.9	73			40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	17		75	73	2.7	72			30 - 130	20	
Hexachlorobenzene	ND	58		81	81	0.0	78			40 - 140	20	
Hexachlorobutadiene	ND	58		61	58	5.0	56			40 - 140	20	
Hexachloroethane	ND	58		54	49	9.7	49			40 - 140	20	
Nitrobenzene	ND	58		71	70	1.4	65			40 - 140	20	
Pentachlorophenol	ND	58		94	96	2.1	89			30 - 130	20	
Pyridine	ND	83		53	44	18.6	47			40 - 140	20	
% 2,4,6-Tribromophenol	80	%		82	82	0.0	77			15 - 110	20	
% 2-Fluorobiphenyl	66	%		71	74	4.1	63			30 - 130	20	
% 2-Fluorophenol	62	%		63	59	6.6	57			15 - 110	20	
% Nitrobenzene-d5	67	%		66	66	0.0	60			30 - 130	20	
% Phenol-d5	55	%		56	53	5.5	52			15 - 110	20	
% Terphenyl-d14	76	%		77	78	1.3	73			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 786242 (ug/kg), QC Sample No: CT35984 (CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)

Semivolatiles - Soil

1,1-Biphenyl	ND	230		71	65	8.8	59	65	9.7	40 - 140	30	
1,2,4,5-Tetrachlorobenzene	ND	230		65	61	6.3	78	64	19.7	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230		51	45	12.5	51	54	5.7	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230		77	76	1.3	81	79	2.5	30 - 130	30	
2,4,5-Trichlorophenol	ND	230		77	74	4.0	71	72	1.4	40 - 140	30	
2,4,6-Trichlorophenol	ND	130		74	71	4.1	67	72	7.2	30 - 130	30	
2,4-Dichlorophenol	ND	130		65	64	1.6	68	67	1.5	30 - 130	30	
2,4-Dimethylphenol	ND	230		70	70	0.0	73	73	0.0	30 - 130	30	
2,4-Dinitrophenol	ND	230		84	85	1.2	63	57	10.0	30 - 130	30	
2,4-Dinitrotoluene	ND	130		77	76	1.3	75	77	2.6	30 - 130	30	
2,6-Dinitrotoluene	ND	130		80	78	2.5	70	77	9.5	40 - 140	30	
2-Chloronaphthalene	ND	230		66	63	4.7	58	62	6.7	40 - 140	30	
2-Chlorophenol	ND	230		65	59	9.7	75	69	8.3	30 - 130	30	
2-Methylnaphthalene	ND	230		78	74	5.3	84	79	6.1	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230		63	74	16.1	93	78	17.5	40 - 140	30	
2-Nitroaniline	ND	330		107	106	0.9	63	87	32.0	40 - 140	30	r
2-Nitrophenol	ND	230		58	55	5.3	53	58	9.0	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230		73	68	7.1	92	79	15.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130		80	77	3.8	<10	26	NC	40 - 140	30	m

QA/QC Data

SDG I.D.: GCT35387

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
3-Nitroaniline	ND	330	85	84	1.2	54	73	29.9	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	83	80	3.7	65	62	4.7	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	71	70	1.4	60	62	3.3	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	70	71	1.4	83	75	10.1	30 - 130	30	
4-Chloroaniline	ND	230	58	59	1.7	41	45	9.3	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	71	69	2.9	69	66	4.4	40 - 140	30	
4-Nitroaniline	ND	230	78	75	3.9	70	79	12.1	40 - 140	30	
4-Nitrophenol	ND	230	103	102	1.0	118	87	30.2	30 - 130	30	
Acenaphthene	ND	230	68	65	4.5	59	61	3.3	30 - 130	30	
Acenaphthylene	ND	130	63	58	8.3	58	60	3.4	40 - 140	30	
Acetophenone	ND	230	60	53	12.4	71	64	10.4	40 - 140	30	
Anthracene	ND	230	71	69	2.9	69	67	2.9	40 - 140	30	
Atrazine	ND	130	65	66	1.5	57	58	1.7	40 - 140	30	
Benz(a)anthracene	ND	230	68	66	3.0	61	61	0.0	40 - 140	30	
Benzaldehyde	ND	230	102	92	10.3	108	104	3.8	40 - 140	30	
Benzo(a)pyrene	ND	130	66	64	3.1	60	57	5.1	40 - 140	30	
Benzo(b)fluoranthene	ND	160	65	63	3.1	61	60	1.7	40 - 140	30	
Benzo(ghi)perylene	ND	230	62	61	1.6	58	51	12.8	40 - 140	30	
Benzo(k)fluoranthene	ND	230	66	64	3.1	64	62	3.2	40 - 140	30	
Benzyl butyl phthalate	ND	230	76	74	2.7	60	68	12.5	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	69	64	7.5	63	66	4.7	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	59	52	12.6	61	63	3.2	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	76	74	2.7	74	67	9.9	40 - 140	30	
Caprolactam	ND	230	71	73	2.8	87	66	27.5	40 - 140	30	
Carbazole	ND	230	77	76	1.3	73	75	2.7	40 - 140	30	
Chrysene	ND	230	70	67	4.4	62	61	1.6	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	64	63	1.6	54	54	0.0	40 - 140	30	
Dibenzofuran	ND	230	69	66	4.4	67	67	0.0	40 - 140	30	
Diethyl phthalate	ND	230	73	71	2.8	71	72	1.4	40 - 140	30	
Dimethylphthalate	ND	230	70	67	4.4	64	67	4.6	40 - 140	30	
Di-n-butylphthalate	ND	670	76	74	2.7	70	70	0.0	40 - 140	30	
Di-n-octylphthalate	ND	230	77	75	2.6	79	69	13.5	40 - 140	30	
Fluoranthene	ND	230	70	69	1.4	77	65	16.9	40 - 140	30	
Fluorene	ND	230	68	64	6.1	69	65	6.0	40 - 140	30	
Hexachlorobenzene	ND	130	67	68	1.5	86	60	35.6	40 - 140	30	r
Hexachlorobutadiene	ND	230	59	53	10.7	55	52	5.6	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	55	49	11.5	15	13	14.3	40 - 140	30	m
Hexachloroethane	ND	130	58	50	14.8	51	46	10.3	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	64	63	1.6	59	54	8.8	40 - 140	30	
Isophorone	ND	130	59	57	3.4	57	59	3.4	40 - 140	30	
Naphthalene	ND	230	62	57	8.4	63	63	0.0	40 - 140	30	
Nitrobenzene	ND	130	62	55	12.0	70	68	2.9	40 - 140	30	
N-Nitrosodimethylamine	ND	230	60	55	8.7	70	59	17.1	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	61	56	8.5	72	66	8.7	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	71	69	2.9	70	71	1.4	40 - 140	30	
Pentachlorophenol	ND	230	85	85	0.0	88	84	4.7	30 - 130	30	
Phenanthrene	ND	130	71	69	2.9	65	64	1.6	40 - 140	30	
Phenol	ND	230	64	65	1.6	90	73	20.9	30 - 130	30	
Pyrene	ND	230	64	63	1.6	71	61	15.2	30 - 130	30	
% 2,4,6-Tribromophenol	83	%	73	73	0.0	64	69	7.5	30 - 130	30	
% 2-Fluorobiphenyl	75	%	67	61	9.4	54	62	13.8	30 - 130	30	
% 2-Fluorophenol	70	%	64	57	11.6	69	64	7.5	30 - 130	30	
% Nitrobenzene-d5	76	%	64	56	13.3	70	68	2.9	30 - 130	30	

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Phenol-d5	72	%		65	60	8.0	83	69	18.4	30 - 130	30	
% Terphenyl-d14	76	%		63	62	1.6	71	60	16.8	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 786532 (ug/L), QC Sample No: CT35387 (CT35387 (10X) , CT35388 (10X) , CT35389 (10X) , CT35390 (10X) , CT35391 (10X) , CT35392 (10X) , CT35393 (10X) , CT35394 (10X))

Volatiles - TCLP

1,1-Dichloroethene	ND	5.0		91	89	2.2				70 - 130	20	
1,2-Dichloroethane	ND	0.60		95	94	1.1				70 - 130	20	
1,4-Dichlorobenzene	ND	1.0		100	100	0.0				70 - 130	20	
Benzene	ND	0.70		95	94	1.1				70 - 130	20	
Carbon tetrachloride	ND	5.0		98	96	2.1				70 - 130	20	
Chlorobenzene	ND	1.0		100	101	1.0				70 - 130	20	
Chloroform	ND	5.0		98	96	2.1				70 - 130	20	
Methyl ethyl ketone	ND	5.0		107	109	1.9				70 - 130	20	
Tetrachloroethene	ND	1.0		102	103	1.0				70 - 130	20	
Trichloroethene	ND	5.0		102	101	1.0				70 - 130	20	
Vinyl chloride	ND	5.0		96	93	3.2				70 - 130	20	
% 1,2-dichlorobenzene-d4	98	%		99	100	1.0				70 - 130	20	
% Bromofluorobenzene	95	%		98	100	2.0				70 - 130	20	
% Dibromofluoromethane	104	%		102	100	2.0				70 - 130	20	
% Toluene-d8	97	%		97	97	0.0				70 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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

QA/QC Batch 786105 (ug/kg), QC Sample No: CT35580 (CT35387, CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0		109	111	1.8	107	99	7.8	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0		102	96	6.1	129	108	17.7	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0		106	102	3.8	94	92	2.2	70 - 130	20	
1,1-Dichloroethane	ND	5.0		105	107	1.9	106	99	6.8	70 - 130	20	
1,1-Dichloroethene	ND	5.0		105	108	2.8	105	98	6.9	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0		106	101	4.8	49	49	0.0	70 - 130	20	m
1,2,4-Trichlorobenzene	ND	5.0		101	96	5.1	53	54	1.9	70 - 130	20	m
1,2,4-Trimethylbenzene	ND	1.0		99	100	1.0	86	74	15.0	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0		114	105	8.2	120	98	20.2	70 - 130	20	
1,2-Dibromoethane	ND	5.0		103	100	3.0	100	94	6.2	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0		103	101	2.0	91	84	8.0	70 - 130	20	
1,2-Dichloroethane	ND	5.0		104	103	1.0	96	92	4.3	70 - 130	20	
1,2-Dichloropropane	ND	5.0		103	104	1.0	98	94	4.2	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0		99	100	1.0	100	86	15.1	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0		98	99	1.0	94	86	8.9	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0		103	101	2.0	98	89	9.6	70 - 130	20	
1,4-dioxane	ND	100		100	94	6.2	99	99	0.0	70 - 130	20	
2-Hexanone	ND	25		95	85	11.1	64	60	6.5	70 - 130	20	m
4-Methyl-2-pentanone	ND	25		101	93	8.2	73	72	1.4	70 - 130	20	
Acetone	ND	10		100	90	10.5	80	79	1.3	70 - 130	20	
Benzene	ND	1.0		102	104	1.9	99	93	6.3	70 - 130	20	
Bromochloromethane	ND	5.0		105	104	1.0	104	98	5.9	70 - 130	20	

QA/QC Data

SDG I.D.: GCT35387

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromodichloromethane	ND	5.0	108	106	1.9	97	96	1.0	70 - 130	20
Bromoform	ND	5.0	107	101	5.8	90	89	1.1	70 - 130	20
Bromomethane	ND	5.0	103	107	3.8	103	93	10.2	70 - 130	20
Carbon Disulfide	ND	5.0	107	110	2.8	99	92	7.3	70 - 130	20
Carbon tetrachloride	ND	5.0	110	112	1.8	105	98	6.9	70 - 130	20
Chlorobenzene	ND	5.0	101	101	0.0	98	91	7.4	70 - 130	20
Chloroethane	ND	5.0	101	106	4.8	103	99	4.0	70 - 130	20
Chloroform	ND	5.0	102	104	1.9	104	97	7.0	70 - 130	20
Chloromethane	ND	5.0	110	113	2.7	105	96	9.0	70 - 130	20
cis-1,2-Dichloroethene	ND	5.0	105	106	0.9	105	97	7.9	70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	111	110	0.9	97	94	3.1	70 - 130	20
Cyclohexane	ND	5.0	101	104	2.9	94	88	6.6	70 - 130	20
Dibromochloromethane	ND	3.0	112	106	5.5	104	101	2.9	70 - 130	20
Dichlorodifluoromethane	ND	5.0	126	128	1.6	109	100	8.6	70 - 130	20
Ethylbenzene	ND	1.0	100	99	1.0	95	87	8.8	70 - 130	20
Isopropylbenzene	ND	1.0	100	101	1.0	120	101	17.2	70 - 130	20
m&p-Xylene	ND	2.0	98	96	2.1	87	81	7.1	70 - 130	20
Methyl ethyl ketone	ND	5.0	99	91	8.4	79	76	3.9	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	111	121	8.6	126	120	4.9	70 - 130	20
Methylacetate	ND	5.0	99	90	9.5	91	85	6.8	70 - 130	20
Methylcyclohexane	ND	5.0	100	102	2.0	83	77	7.5	70 - 130	20
Methylene chloride	ND	5.0	104	102	1.9	103	98	5.0	70 - 130	20
o-Xylene	ND	2.0	101	100	1.0	90	86	4.5	70 - 130	20
Styrene	ND	5.0	98	96	2.1	81	77	5.1	70 - 130	20
Tetrachloroethene	ND	5.0	103	107	3.8	91	87	4.5	70 - 130	20
Toluene	ND	1.0	105	106	0.9	97	91	6.4	70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	110	110	0.0	107	99	7.8	70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	112	109	2.7	95	93	2.1	70 - 130	20
Trichloroethene	ND	5.0	102	103	1.0	92	88	4.4	70 - 130	20
Trichlorofluoromethane	ND	5.0	113	117	3.5	112	104	7.4	70 - 130	20
Trichlorotrifluoroethane	ND	5.0	112	111	0.9	109	98	10.6	70 - 130	20
Vinyl chloride	ND	5.0	109	111	1.8	106	98	7.8	70 - 130	20
% 1,2-dichlorobenzene-d4	95	%	101	102	1.0	101	102	1.0	70 - 130	20
% Bromofluorobenzene	99	%	103	100	3.0	90	96	6.5	70 - 130	20
% Dibromofluoromethane	103	%	99	102	3.0	104	102	1.9	70 - 130	20
% Toluene-d8	89	%	103	104	1.0	96	98	2.1	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 786302H (ug/kg), QC Sample No: CT35793 50X (CT35388 (50X))

Volatiles - Soil (High Level)

1,2,4-Trimethylbenzene	ND	250	99	98	1.0	98	101	3.0	70 - 130	20
% 1,2-dichlorobenzene-d4	94	%	102	100	2.0	100	101	1.0	70 - 130	20
% Bromofluorobenzene	98	%	101	100	1.0	101	101	0.0	70 - 130	20
% Dibromofluoromethane	99	%	99	98	1.0	100	99	1.0	70 - 130	20
% Toluene-d8	91	%	104	104	0.0	107	103	3.8	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%.

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.

QA/QC Data

SDG I.D.: GCT35387

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD 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
June 05, 2025

Thursday, June 05, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCT35387 - AES-INC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CT35387	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	139	0.36	63	63	mg/Kg
CT35387	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	5.45	0.10	5	5	mg/L
CT35388	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	152	0.36	63	63	mg/Kg
CT35389	$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	3.8	2.1	3.3	3.3	ug/Kg
CT35389	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	114	0.34	63	63	mg/Kg
CT35392	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	65.9	0.37	63	63	mg/Kg
CT35393	HG-SMDMA	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.196	0.14	0.18	0.18	mg/Kg
CT35393	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	70.1	0.40	63	63	mg/Kg
CT35394	$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.0	2.1	3.3	3.3	ug/Kg
CT35394	HG-SMDMA	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.240	0.13	0.18	0.18	mg/Kg
CT35394	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	223	0.35	63	63	mg/Kg

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

Analysis Comments

June 05, 2025 SDG I.D.: GCT35387

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

Herbicide Narration

AU-ECD12 05/30/25-1: CT35393, CT35394

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CT35393, CT35394
Preceding CC 530A039 - 2,4,5-TP (10) 23%H (20%), 2,4-D (8) 22%H (20%)
Succeeding CC 530A045 - 2,4,5-TP (10) 23%H (20%)

AU-ECD2 05/30/25-1: CT35387, CT35388, CT35389, CT35390, CT35391, CT35392

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CT35388, CT35389, CT35390, CT35391, CT35392
Preceding CC 530B039 - None.
Succeeding CC 530B046 - 2,4,5-TP (10) 21%H (20%), 2,4-D (8) 21%H (20%)

PCB Narration

AU-ECD1 05/28/25-1: CT35387, CT35391, CT35392, CT35393, CT35394

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CT35387, CT35391, CT35392, CT35393, CT35394
Preceding CC 528B021 - DCBP SURR 21%H (20%), PCB 1260 26%H (%)
Succeeding CC 528B036 - None.

PEST Narration

AU-ECD33 05/30/25-1: CT35393, CT35394

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CT35393, CT35394
Preceding CC 530B004 - Endosulfan I 21%L (20%)
Succeeding CC 530B017 - Endosulfan II 28%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 05/28/25-1: CT35387, CT35388, CT35389

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CT35387, CT35388, CT35389
Preceding CC 528B010 - Endosulfan I 21%L (20%), Endosulfan II 34%L (20%), Methoxychlor 21%L (20%)
Succeeding CC 528B023 - Endosulfan I 23%L (20%), Endosulfan II 38%L (20%), Heptachlor 22%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 05/30/25-1: CT35390, CT35391, CT35392

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CT35390, CT35391, CT35392
Preceding CC 530B004 - Endosulfan I 25%L (20%), Endosulfan II 41%L (20%), Methoxychlor 23%L (20%)
Succeeding CC 530B016 - Endosulfan I 23%L (20%), Endosulfan II 33%L (20%), Methoxychlor 26%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 05/28/25-1: CT35390, CT35391, CT35392, CT35393, CT35394

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

June 05, 2025 SDG I.D.: GCT35387

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CT35390, CT35391, CT35392, CT35393, CT35394
Preceding CC 528B023 - % DCBP 22%L (20%), Endosulfan II 30%L (20%)
Succeeding CC 528B036 - % DCBP 33%L (20%), Endosulfan II 36%L (20%), Endrin Ketone 23%L (20%), Methoxychlor 26%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 05/30/25-1: CT35387, CT35388, CT35389

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CT35387, CT35388, CT35389
Preceding CC 530B004 - Endosulfan II 31%L (20%)
Succeeding CC 530B029 - % DCBP 23%L (20%), Endosulfan II 31%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.

SVOA Narration

CHEM06 05/28/25-1: CT35388, CT35389, CT35390, CT35391, CT35392, CT35393, CT35394

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 Continuing Calibration compounds did not meet % deviation criteria: Benzaldehyde 23%L (20%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: Bis(2-chloroethyl)ether 0.675 (0.7)
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%.

CHEM28 05/30/25-1: CT35387, CT35388, CT35389, CT35390

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 0.085 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Pentachlorophenol 21%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 0.086 (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%.

CHEM29 05/30/25-1: CT35387

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

June 05, 2025 SDG I.D.: GCT35387

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: 2-Nitrophenol 0.062 (0.1), Hexachlorobenzene 0.088 (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 0.069 (0.1), Hexachlorobenzene 0.092 (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%.

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NY Temperature Narration

June 05, 2025

SDG I.D.: GCT35387

The samples in this delivery group were received at 2.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 2.1 °C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

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: GATEWAY ESTATES - HD/6/E
Report to: AES
Invoice to: AES
QUOTE # : AE100622BA

Project P.O: 0703

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 5/22/25

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	Full TCLP/RIC	TPH DRO/GRO	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container ( ) oz	GL Soil container ( ) oz	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 [ ] 500ml	PL NAOH 250ml	PL HNO_3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
35387	Pile 85 - 1	S	5/22/25	10:05		X	X	X							3	2	1			
35388	Pile 85 - 2			10:10																
35389	Pile 85 - 3			10:15																
35390	Pile 85 - 4			10:20																
35391	Pile 86 - 1			10:40																
35392	Pile 86 - 2			10:45																
35393	Pile 86 - 3			10:48																
35394	Pile 86 - 4			10:50																

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5/23/25	0830
	[signature]	5/23/25	1721

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

* SURCHARGE APPLIES
7 day

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:

*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