Field Sampling Summary Report #74

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

NYCDDC PROJECT # SANDRESM1

Prepared for:

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

On behalf of:

IPC Resiliency Partners
1010 Northern Boulevard, Suite 200
Great Neck, NY 11021

Prepared by:

AMERICAN ENVIRONMENTAL SOLUTIONS
42 West Avenue
Patchogue, New York 11772
TEL: (631) 475-0020
FAX: (631) 475-0025
PENDYENVENG@OPTONLINE.NET

AES Project No. 0897

OCTOBER 31st, 2025

TABLE OF CONTENTS

FIGURES

TABLES

ATTACHMENTS

APPENDICES

1.0 INTRODUCTION

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

1.1 Project Description

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

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

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

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

2.0 FIELD ACTIVITIES

AES performed soil sampling at the site on October 21st, 2025. One soil sample identified as DEP99 was collected from a boring advanced to 13 ftbg in an area to be excavated for DEP sewer installation adjacent to the track. The boring location was cleared to 5 ftbg using a vac truck to avoid utility interference. The 0–5 foot interval was sampled from precleared soils, then the boring was advanced from 5 ftbg to 13 ftbg where refusal was encountered.

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

2.1 Soil Sampling and Analysis

The soil sample was field screened using a photoionization detector (PID) and readings were recorded on boring logs. All PID readings collected during the field sampling events are shown on boring logs included in Appendix A. One grab sample and one composite soil sample were collected from each sampling location and submitted for laboratory analysis.

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

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

- 40 CFR Part 261, Subpart C (Characteristics of Hazardous Waste)
- Ignitability (Method 1010);
- Corrosivity (Method 9045C);
- Reactivity (Chapter 7.3.2);
- Toxicity Characteristic Leaching Procedure (TCLP) VOC (Method 1311/8260);
- TCLP SVOC (Method 1311/8270);
- TCLP Pesticides (Method 1311/8081) (if required by the selected disposal facility);
- TCLP Herbicides (Method 1311/8151A);
- TCLP Metals (Method 1311/6010B/7470A);
- Polychlorinated biphenyls (PCBs) (Method 8082);
- Pesticides (Method 8081);
- Total Petroleum Hydrocarbons (TPH) (Method 8015);
- Extractable Petroleum Hydrocarbons (EPH);

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

Laboratory analysis is included in Appendix B.

2.2 Analytical Results

Analytical laboratory results indicated sample DEP99 contained compounds in concentrations exceeding the NYSDEC Part 375 Commercial Soil Cleanup Objectives (CSCOs) and contained concentrations of lead exceeding the RCRA Hazardous Waste Characteristic Regulatory Level. Compound exceedances are shown on Tables 1 and 2.

Comments:

- Analytical results compared to applicable criteria are presented in Tables 1 and 2. Two metals detected in soil sample DEP99 exhibited exceedances of CSCOs. Exceedances of CSCOs are highlighted in yellow on Table 1. Material exceeding CSCOs should not be reused as backfill on-site and should be transported off-site for disposal at a permitted disposal facility.

- The TCLP lead results exceeded the RCRA Hazardous Waste Characteristic Regulatory Level of 5 milligrams per liter (mg/L) at a concentration of 18.8 mg/L. TCLP results are summarized in Table 2.

3.0 CONCLUSIONS AND RECOMMENDATIONS

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

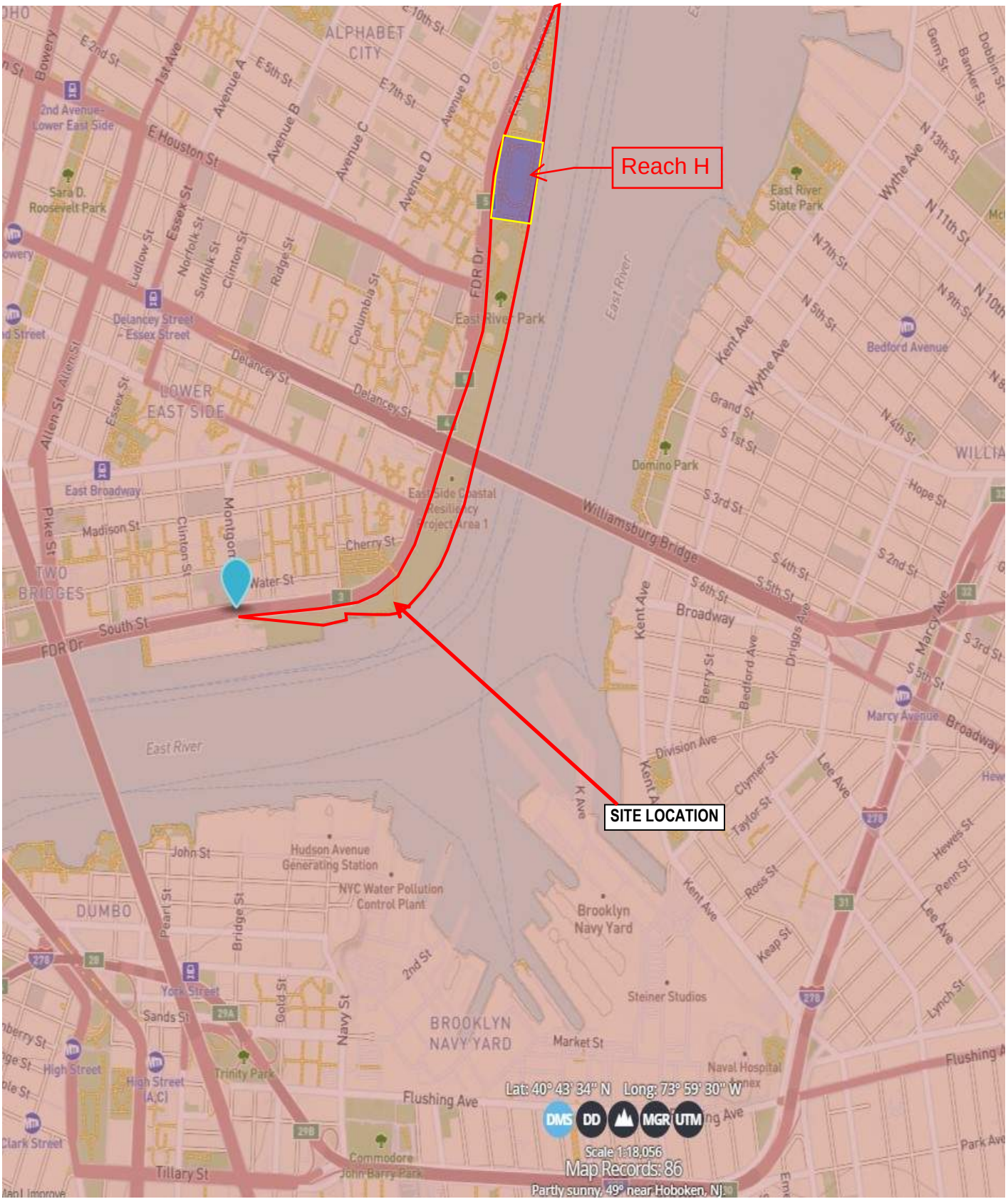
- Laboratory analytical results indicated soil sample DEP99 exhibited evidence of hazardous waste characteristics for toxicity as discussed above and identified in Table 2. Upon commencement of the infrastructure improvement activities, the material should be properly disposed of at a USEPA approved RCRA-Part B TSDF facility. TCLP lead concentrations detected in the soil sample may be attributed to the presence of historic fill material in the subsurface.

- 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



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

SANDRESM1 BIDDABLE PACKAGE 2/21/2020

FRANKLIN D ROOSEVELT DRIVE

MATCHLINE STA. 69+33 SEE SHEET WS304

MATCHLINE STA. 77+58 SEE SHEET WS306

SEGMENT 3 - SEGMENT 2

EXISTING CRIB BULKHEAD

OIL-12 CONTD · OIL-14 · OIL-15 · OIL-16 · OIL-17 · OIL-18 · OIL-19 · OIL-20 · OIL-21 · OIL-22 · OIL-23

DEP-99 · DEP-100 · DEP-101 · DEP-102 · DEP-103 · DEP-104 · DEP-105 · DEP-106 · DEP-107 · DEP-108 · DEP-109 · DEP-110 · DEP-111 · DEP-112 · DEP-113 · DEP-114 · DEP-115 · DEP-116 · DEP-117

G-177 · G-178 · G-179 · G-180 · G-181 · G-182 · G-183 · G-184 · G-185 · G-186 · G-187 · G-188 · G-189 · G-190 · G-191 · G-192 · G-192A · G-193 · G-194 · G-195 · G-196 · G-197 · G-198 · G-199 · G-200 · G-201 · G-202 · G-202A · G-203 · G-204 · G-205 · G-206 · G-207 · G-208 · G-208A · G-208B · G-209 · G-210 · G-211 · G-212 · G-212A · G-213 · G-214 · G-215 · G-216 · G-217 · G-218 · G-219 · G-220 · G-220A

FOR PROPOSED REGULATOR DETAILS, SEE NOTE 9 ON SHEET WS300

EXISTING SEWER AND REGULATOR

FOR PROPOSED DRAINAGE DETAILS SEE NOTE 14 ON SHEET WS300

FOR PROPOSED SEWER DETAILS, SEE NOTE 9 ON SHEET WS300

FOR PROPOSED SEWER DETAILS, SEE NOTE 9 ON SHEET WS300

FOR PROPOSED FLOODWALL DETAILS, SEE NOTE 11 ON SHEET WS300

JOHN V. LINDSAY EAST RIVER PARK

G-202A 3,000.15 SF

1,336.58 SF

PROPOSED ANCHORED STRUCTURAL STYROFOAM BLOCK (TYP)

PROPOSED SHEET PILE DEADMAN

EXISTING SHEET PILE WALL

EDGE OF ESPLANADE DECK

PROPOSED TIE RODS

PROPOSED LIGHTWEIGHT FILL EXTENT

EXISTING CONCRETE FOOTING AND SHEET PILES

345.5 1/2"

PROPOSED CUT-OFF WALL

EDGE OF ESPLANADE DECK

BH91 · BH92 · BH93 · BH94 · BH95 · BH96 · BH97 · BH98 · BH99 · BH100 · BH101 · BH102 · BH103 · BH104 · BH105 · BH106 · BH107 · BH108 · BH109

Geoprobe advanced to 18' BGS

AASHTO TYPE V BEAMS (6 PILES) TO BE INSTALLED

PROPOSED PILE CAP (SEE NOTE 3) (TYP)

PROPOSED PILE (SEE NOTE 4) (TYP)

EXISTING NORTH EMBAYMENT TO BE FILLED AFTER INSTALLATION OF CUT-OFF WALL

CUT-OFF WALL PILE CAP TOP EL. +11.73'±

CUT-OFF WALL TIP EL. -44.0'

CUT WALL PILE CAP TOP EL. +12.98'

AASHTO TYPE V BEAMS (5 PILES) TO BE INSTALLED

PROPOSED OUTFALL PENETRATION IN BULKHEAD, SEE NOTE 13 ON SHEET WS300

AASHTO TYPE V BEAMS (3 PILES) TO BE INSTALLED

EXISTING CONCRETE PILE CAP (TYP)

CUT-OFF WALL PILE CAP TOP EL. +12.07'±

CUT-OFF WALL TIP EL. -34.0'

EAST RIVER

AASHTO TYPE V BEAMS (5 PILES) TO BE INSTALLED

INTERLOCK SEALANT APPLIED TO CUT-OFF WALL (SEE NOTE 2)

CUT-OFF TIP EL.-50.0'

CUT-OFF WALL PILE CAP TOP EL. +12.95'

EDGE OF ESPLANADE DECK

SECTION G-6 · SECTION G-5 · SECTION H-1 · SECTION H-2

SCALE: 1" = 30'

LEGEND:

LIMITS OF WORK

PROPOSED COMB. SEWER

NOTE:

1. FOR NOTES, REFER TO SHEET WS300.
2. REFER TO WS760 FOR INTERLOCK SEALANT DETAILS.
3. REFER TO SHEET WS512 FOR PROPOSED PILE CAP DETAILS.
4. REFER TO SHEETS WS500 AND WS501 FOR PROPOSED PILE DETAILS.

FOR BID

SUBMITTED DATE: 02/21/2020

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

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

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

SIGNATURE

DATE

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

WATERFRONT STRUCTURAL PLAN
SEGMENT 2 – REACH H
STA. 69+33 – 77+58

CH2M
DRAWN BY

SANDRESM1-WS305-04.DWG
CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 2/21/20

SHEET 731 OF 2791

WS305

CONSULTANT DESIGN

TABLES

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, MANHATTAN
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS
TABLE 1: SUMMARY OF SOIL ANALYSIS - SAMPLE COLLECTED 10/21/2025

Parameter	Compounds Detected	Unit	NYSDEC Part 375 Commercial Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives	DEP99
PCBs	None Detected	ppm	-	-	ND
Pesticides	None Detected	ppm	-	-	ND
TAL Metals	Aluminum	ppm	NS	NS	2810
	Antimony	ppm	NS	NS	5.1
	Arsenic	ppm	16	16	6.59
	Barium	ppm	400	400	178
	Beryllium	ppm	590	72	ND
	Cadmium	ppm	9.3	4.3	**7.03**
	Calcium	ppm	NS	NS	12,700
	Chromium	ppm	1500	180	7.08
	Hexvalent Chromium	ppm	400	110	ND
	Trivalent Chromium	ppm	1500	180	7.08
	Cobalt	ppm	NS	NS	8.88
	Copper	ppm	270	270	**802**
	Iron	ppm	NS	NS	48,000
	Lead	ppm	1000	400	**1160**
	Manganese	ppm	10,000	2000	371
	Magnesium	ppm	NS	NS	752
	Mercury	ppm	2.8	0.81	0.59
	Nickel	ppm	310	310	14.8
	Sodium	ppm	NS	NS	891
	Potassium	ppm	NS	NS	396
	Vanadium	ppm	NS	NS	14.2
	Zinc	ppm	10,000	10,000	385
Semi-Volatile Organic Compounds (SVOCs)	Benzaldehyde	ppm	NS	NS	0.57
	Phenanthrene	ppm	500	100	0.4
Cyanide	Cyanide	ppm	27	27	13.8
Volatile Organic Compounds	Acetone	ppm	500	100	0.081
EPH	>C28-C40	ppm	NS	NS	29
	C9-C28	ppm	NS	NS	200
	Total EPH	ppm	NS	NS	229
TPH	DRO	ppm	NS	NS	310
	GRO	ppm	NS	NS	ND

ND Not Detected
NS No regulatory criteria available
Yellow highlighted concentrations exceed NYSDEC Part 375 Restricted Residential and Commerical Soil Cleanup Objectiv

EAST SIDE COASTAL RESILIENCY FROM MONTGOMERY STREET TO EAST 15TH STREET, NYC
NYCDDC PROJECT SANDRESM1
IPC RESILIENCY PARTNERS
TABLE 2: SUMMARY OF TCLP & RCRA ANALYSIS - SAMPLES COLLECTED 10/21/2025

Parameter	Compounds Detected	Unit	Regulatory Criteria	DEP99
RCRA Characteristics	pH	pH units	<2 or >12.5	8.59
	Flashpoint	º F	>200º F	>200°F
	Ignitability	º F	<140º F	passed
	Reactivity - Cyanide	ppm	_	ND
	Reactivity - Sulfide	ppm	_	ND
TOXICITY		**Unit**	**USEPA Toxicity Characteristic Regulatory Criteria**	**DEP99**
TCLP Metals	Barium	mg/L	100	0.74
	Chromium	mg/L	5	0.32
	Lead	mg/L	5	**18.8**
TCLP VOCs	Benzene	_		ND
TCLP SVOCs	None Detected	_	_	ND
TCLP Pests/Herbicides	None Detected	_	_	ND

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

ATTACHMENT I
SITE PHOTOGRAPHS

Hazardous location DEP99, collected 10/21/25

APPENDIX A

SOIL BORING LOGS

AES, Inc.

TEST HOLE LOG

CLIENT:	IPC Resiliency Partners	BORING ID:	DEP99
AGENCY:	NYCDDC	PROPOSED DEPTH	20'
DRILLER:	ADT	DATE	10/21/2025
PROJECT ID:	SANDRESM1	PROJECT No.	0897	TIME STARTED:	1:03
ADDRESS :	East Side Coastal Resiliency East River Park, NYC	GEOLOGIST:	Brian Pendergast/Mike Amore	GROUND WATER COMMENTS	
LOCATION:	Track area			NA	
EQUIPMENT TYPE/SIZE:	Geoprobe Model 7822 DT				

DEPTH	SAMPLE			PID (ppm)	SOIL CLASSIFICATION	REMARKS
FEET	STRATA	SAMPLE #	PEN/REC		COLOR, CONSISTENCY, DESCRIPTION	
				0.0	Dark brown sand and topsoil	
					some rock, fine brown sand and gravel	
					Hole precleared to 5 ftbg with vac truck	
5						
				0.0	Wet dark brown silty sand	
					Crushed concrete	
			4'		Fine black silty sand	
					Black clay	
10						
				0.0	Wet black fine sand	
					Wet black clay	
13			2'		Refusal at 13'	

GENERAL COMMENTS

VOC grab @ 10'	TIME SAMPLE COLLECTED:	1:18 PM

APPENDIX B

LABORATORY ANALYSIS

Thursday, October 30, 2025

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

Project ID: **EAST SIDE COASTAL RESILIENCY**
SDG ID: **GCU56770**
Sample ID#s: **CU56770**

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

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

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

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

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

NY # 11301

SDG Comments

October 30, 2025

SDG I.D.: GCU56770

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

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

NY # 11301

Sample Id Cross Reference

October 30, 2025

SDG I.D.: GCU56770

Project ID: EAST SIDE COASTAL RESILIENCY

Client Id	Lab Id	Matrix	Col Date
DEP99	CU56770	SOIL	10/21/25 13:18

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

October 30, 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:		10/21/25	13:18
Location Code:	AES-EASTSIDE	Received by:	CP	10/22/25	17:15
Rush Request:	5 Day	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU56770
Phoenix ID: CU56770

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP99

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.65	0.65	mg/Kg	1	10/24/25	CPP	SW6010D
Aluminum	2810	6.0	mg/Kg	1	10/24/25	CPP	SW6010D
Arsenic	6.59	0.80	mg/Kg	1	10/24/25	CPP	SW6010D
Barium	178	0.40	mg/Kg	1	10/24/25	CPP	SW6010D
Beryllium	< 0.32	0.32	mg/Kg	1	10/24/25	CPP	SW6010D
Calcium	12700	6.0	mg/Kg	1	10/24/25	CPP	SW6010D
Cadmium	7.03	0.40	mg/Kg	1	10/24/25	CPP	SW6010D
Cobalt	8.88	0.40	mg/Kg	1	10/24/25	CPP	SW6010D
Chromium	7.08	0.40	mg/Kg	1	10/24/25	CPP	SW6010D
Copper	802	0.8	mg/kg	1	10/24/25	CPP	SW6010D
Iron	48000	6.0	mg/Kg	1	10/24/25	CPP	SW6010D
Mercury	0.590	0.091	mg/Kg	1	10/23/25	ZT	SW7473
Potassium	396	6.0	mg/Kg	1	10/24/25	CPP	SW6010D
Magnesium	752	6.0	mg/Kg	1	10/24/25	CPP	SW6010D
Manganese	371	0.40	mg/Kg	1	10/24/25	CPP	SW6010D
Sodium	891	6.0	mg/Kg	1	10/24/25	CPP	SW6010D
Nickel	14.6	0.40	mg/Kg	1	10/24/25	CPP	SW6010D
Lead	1160	0.40	mg/Kg	1	10/24/25	CPP	SW6010D
Antimony	5.1	4.0	mg/Kg	1	10/24/25	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	10/24/25	CPP	SW6010D
TCLP Silver	< 0.10	0.10	mg/L	1	10/23/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.10	0.10	mg/L	1	10/23/25	CPP	SW846 1311/6010
TCLP Barium	0.74	0.10	mg/L	1	10/23/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.050	0.050	mg/L	1	10/23/25	CPP	SW846 1311/6010
TCLP Chromium	0.32	0.10	mg/L	1	10/23/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	10/24/25	AJ1	SW846 1311/7470
TCLP Lead	18.8	0.10	mg/L	1	10/23/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.10	0.10	mg/L	1	10/23/25	CPP	SW846 1311/6010D

Ver 1

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP99

Phoenix I.D.: CU56770

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.6	3.6	mg/Kg	1	10/24/25	CPP	SW6010D	
TCLP Metals Digestion	Completed				10/23/25	AK/AK	SW3010A	
Vanadium	14.2	0.40	mg/Kg	1	10/24/25	CPP	SW6010D	
Zinc	385	0.8	mg/Kg	1	10/24/25	CPP	SW6010D	
Percent Solid	82		%		10/22/25	CV	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	10/23/25	KG	SW846-Corr	1
Flash Point	>200	200	Degree F	1	10/27/25	G	SW1010B	
Chromium, Hex. (SW3060A digestion	< 0.47	0.47	mg/Kg	1	10/24/25	NP	SW7196A	
Ignitability	Passed	140	degree F	1	10/27/25	G	SW846-Ignit	1
pH at 23C - Soil	8.59	1.00	pH Units	1	10/23/25 00:33	KG	SW846 9045D	
Reactivity Cyanide	< 6	6	mg/Kg	1	10/23/25	ih/gd	SW846 7.3.3.1/90	1
Reactivity Sulfide	< 20	20	mg/Kg	1	10/23/25	IH/GD	SW846 CH7	1
Reactivity	Negative		Pos/Neg	1	10/23/25	IH/GD	SW846-React	1
Redox Potential	-64.7		mV	1	10/23/25	KG	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	13.8	1.22	mg/Kg	2	10/27/25	M/J/I/G	SW9012B	
Extraction of NY ETPH	Completed				10/27/25	C/Q	SW3546	
Soil Extraction for Herbicide	Completed				10/27/25	X/D	SW3546	
NJ EPH Extraction	Completed				10/27/25	RB/S/U	NJDEP 10-08 R3	
Soil Extraction for PCB	Completed				10/24/25	C/Z	SW3546	
Soil Extraction for Pesticides	Completed				10/24/25	C/Z	SW3546	
Soil Extraction for SVOA	Completed				10/24/25	AC1/S/A/X	SW3546	
TCLP Digestion Mercury	Completed				10/23/25	AK/AK	SW7470A	
TCLP Herbicides Extraction	Completed				10/23/25	CV/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				10/22/25	ak	SW1311	
TCLP Extraction for Organics	Completed				10/22/25	ak	SW1311	
TCLP Pesticides Extraction	Completed				10/24/25	T/T	SW3510C	
TCLP Semi-Volatile Extraction	Completed				10/27/25	J/J	SW3510C	
TCLP Extraction Volatiles	Completed				10/22/25	CV	SW1311	
Total Metals Digest	Completed				10/23/25	P/AG/BF	SW3050B	
NJ EPH Category 1 (Fuel #2/Diesel)								
>C28-C40	29	9.7	mg/kg	1	10/28/25	JRB	NJEPH 10-08 R3	1
C9-C28	200	19	mg/kg	1	10/28/25	JRB	NJEPH 10-08 R3	1
Total EPH	229	9.7	mg/kg	1	10/28/25	JRB	NJEPH 10-08 R3	1
QA/QC Surrogates								
% COD (surr)	98		%	1	10/28/25	JRB	40 - 140 %	
% Terphenyl (surr)	118		%	1	10/28/25	JRB	40 - 140 %	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	9.7	mg/Kg	50	10/24/25	V	SW8015D GRO	
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	95		%	50	10/24/25	V	70 - 130 %	
Chlorinated Herbicides								
2,4,5-T	ND	150	ug/Kg	10	10/28/25	JRB	SW8151A	
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	10/28/25	JRB	SW8151A	
2,4-D	ND	300	ug/Kg	10	10/28/25	JRB	SW8151A	
2,4-DB	ND	1500	ug/Kg	10	10/28/25	JRB	SW8151A	
Dalapon	ND	150	ug/Kg	10	10/28/25	JRB	SW8151A	

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dicamba	ND	150	ug/Kg	10	10/28/25	JRB	SW8151A
Dichloroprop	ND	300	ug/Kg	10	10/28/25	JRB	SW8151A
Dinoseb	ND	300	ug/Kg	10	10/28/25	JRB	SW8151A
QA/QC Surrogates							
% DCAA	79		%	10	10/28/25	JRB	30 - 150 %
% DCAA (Confirmation)	107		%	10	10/28/25	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	80	ug/Kg	2	10/28/25	SC	SW8082A
PCB-1221	ND	80	ug/Kg	2	10/28/25	SC	SW8082A
PCB-1232	ND	80	ug/Kg	2	10/28/25	SC	SW8082A
PCB-1242	ND	80	ug/Kg	2	10/28/25	SC	SW8082A
PCB-1248	ND	80	ug/Kg	2	10/28/25	SC	SW8082A
PCB-1254	ND	80	ug/Kg	2	10/28/25	SC	SW8082A
PCB-1260	ND	80	ug/Kg	2	10/28/25	SC	SW8082A
PCB-1262	ND	80	ug/Kg	2	10/28/25	SC	SW8082A
PCB-1268	ND	80	ug/Kg	2	10/28/25	SC	SW8082A
QA/QC Surrogates							
% DCBP	37		%	2	10/28/25	SC	30 - 150 %
% DCBP (Confirmation)	44		%	2	10/28/25	SC	30 - 150 %
% TCMX	55		%	2	10/28/25	SC	30 - 150 %
% TCMX (Confirmation)	58		%	2	10/28/25	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.4	ug/Kg	2	10/28/25	AW	SW8081B
4,4' -DDE	ND	2.4	ug/Kg	2	10/28/25	AW	SW8081B
4,4' -DDT	ND	2.4	ug/Kg	2	10/28/25	AW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
a-Chlordane	ND	4.0	ug/Kg	2	10/28/25	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	10/28/25	AW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	10/28/25	AW	SW8081B
d-BHC	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/28/25	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/28/25	AW	SW8081B
g-Chlordane	ND	4.0	ug/Kg	2	10/28/25	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	10/28/25	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/28/25	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/28/25	AW	SW8081B
QA/QC Surrogates							
% DCBP	40		%	2	10/28/25	AW	30 - 150 %
% DCBP (Confirmation)	24		%	2	10/28/25	AW	30 - 150 %
% TCMX	51		%	2	10/28/25	AW	30 - 150 %

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% TCMX (Confirmation)	41		%	2	10/28/25	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	50	ug/L	10	10/24/25	JRB	SW846 1311/8151	
2,4-D	ND	100	ug/L	10	10/24/25	JRB	SW846 1311/8151	
QA/QC Surrogates								
% DCAA	68		%	10	10/24/25	JRB	30 - 150 %	
% DCAA (Confirmation)	60		%	10	10/24/25	JRB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	10/27/25	AW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	10/27/25	AW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	10/27/25	AW	SW8081B	
a-BHC	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	
Alachlor	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	
b-BHC	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	
Chlordane	ND	5.0	ug/L	10	10/27/25	AW	SW8081B	
d-BHC	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	
Dieldrin	ND	1.0	ug/L	10	10/27/25	AW	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	10/27/25	AW	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	10/27/25	AW	SW8081B	
Endrin	ND	1.0	ug/L	10	10/27/25	AW	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	10/27/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	
Heptachlor	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	10/27/25	AW	SW8081B	
Toxaphene	ND	20	ug/L	10	10/27/25	AW	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	75		%	10	10/27/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	45		%	10	10/27/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	67		%	10	10/27/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	74		%	10	10/27/25	AW	30 - 150 %	
TPH DRO (C10-C28)								
Diesel Range Organics (C10-C28)	310	300	mg/Kg	5	10/29/25	JRB	SW8015D DRO	
QA/QC Surrogates								
% Terphenyl-d14	54		%	5	10/29/25	JRB	50 - 150 %	
% Tricosane(C23)	61		%	5	10/29/25	JRB	50 - 150 %	
Volatiles (TCL)								
1,1,1-Trichloroethane	ND	8.0	ug/kg	1	10/23/25	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	540	ug/kg	50	10/24/25	JLI	SW8260D	
1,1,2-Trichloroethane	ND	8.0	ug/kg	1	10/23/25	JLI	SW8260D	
1,1-Dichloroethane	ND	8.0	ug/kg	1	10/23/25	JLI	SW8260D	
1,1-Dichloroethene	ND	8.0	ug/kg	1	10/23/25	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	540	ug/kg	50	10/24/25	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	540	ug/kg	50	10/24/25	JLI	SW8260D	

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP99

Phoenix I.D.: CU56770

Parameter	Result		RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trimethylbenzene	ND		540	ug/kg	50	10/24/25	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND		540	ug/kg	50	10/24/25	JLI	SW8260D
1,2-Dibromoethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
1,2-Dichlorobenzene	ND		540	ug/kg	50	10/24/25	JLI	SW8260D
1,2-Dichloroethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
1,2-Dichloropropane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND		540	ug/kg	50	10/24/25	JLI	SW8260D
1,3-Dichlorobenzene	ND		540	ug/kg	50	10/24/25	JLI	SW8260D
1,4-Dichlorobenzene	ND		540	ug/kg	50	10/24/25	JLI	SW8260D
2-Hexanone	ND		40	ug/kg	1	10/23/25	JLI	SW8260D
4-Methyl-2-pentanone	ND		40	ug/kg	1	10/23/25	JLI	SW8260D
Acetone	81	S	50	ug/kg	1	10/23/25	JLI	SW8260D
Benzene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Bromochloromethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Bromodichloromethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Bromoform	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Bromomethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Carbon Disulfide	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Carbon tetrachloride	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Chlorobenzene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Chloroethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Chloroform	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Chloromethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Cyclohexane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Dibromochloromethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Dichlorodifluoromethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Ethylbenzene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Isopropylbenzene	ND		540	ug/kg	50	10/24/25	JLI	SW8260D
m&p-Xylene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Methyl ethyl ketone	ND		48	ug/kg	1	10/23/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND		16	ug/kg	1	10/23/25	JLI	SW8260D
Methylacetate	ND		80	ug/kg	1	10/23/25	JLI	SW8260D
Methylcyclohexane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Methylene chloride	ND		40	ug/kg	1	10/23/25	JLI	SW8260D
o-Xylene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Styrene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Tetrachloroethene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Toluene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Total Xylenes	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Trichloroethene	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Trichlorofluoromethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Trichlorotrifluoroethane	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
Vinyl chloride	ND		8.0	ug/kg	1	10/23/25	JLI	SW8260D
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	127			%	1	10/23/25	JLI	70 - 130 %

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	75		%	1	10/23/25	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	10/23/25	JLI	70 - 130 %
% Toluene-d8	87		%	1	10/23/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	10/24/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	10/24/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	89		%	50	10/24/25	JLI	70 - 130 %
% Toluene-d8 (50x)	96		%	50	10/24/25	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	100	ug/kg	1	10/23/25	JLI	SW8260D
Volatiles							
1,2,3-Trichloropropane	ND	8.0	ug/Kg	1	10/23/25	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	8.0	ug/Kg	1	10/23/25	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	8.0	ug/Kg	1	10/23/25	JLI	SW8260D
1,3-Dichloropropane	ND	8.0	ug/Kg	1	10/23/25	JLI	SW8260D
n-Butylbenzene	ND	8.0	ug/Kg	1	10/23/25	JLI	SW8260D
n-Propylbenzene	ND	8.0	ug/Kg	1	10/23/25	JLI	SW8260D
p-Isopropyltoluene	ND	8.0	ug/Kg	1	10/23/25	JLI	SW8260D
sec-Butylbenzene	ND	8.0	ug/Kg	1	10/23/25	JLI	SW8260D
tert-Butylbenzene	ND	8.0	ug/Kg	1	10/23/25	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	127		%	1	10/23/25	JLI	70 - 130 %
% Bromofluorobenzene	75		%	1	10/23/25	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	10/23/25	JLI	70 - 130 %
% Toluene-d8	87		%	1	10/23/25	JLI	70 - 130 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
1,2-Dichloroethane	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
1,4-Dichlorobenzene	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
Benzene	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
Carbon tetrachloride	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
Chlorobenzene	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
Chloroform	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
Methyl ethyl ketone	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
Tetrachloroethene	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
Trichloroethene	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
Vinyl chloride	ND	50	ug/L	10	10/23/25	V	SW846 1311/8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (10x)	98		%	10	10/23/25	V	70 - 130 %
% Bromofluorobenzene (10x)	93		%	10	10/23/25	V	70 - 130 %
% Dibromofluoromethane (10x)	95		%	10	10/23/25	V	70 - 130 %
% Toluene-d8 (10x)	101		%	10	10/23/25	V	70 - 130 %
Volatile Library Search	Completed				10/23/25	JLI	
Semivolatiles							
1,1-Biphenyl	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E

Project ID: EAST SIDE COASTAL RESILIENCY
Client ID: DEP99

Phoenix I.D.: CU56770

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
2,2'-Oxybis(1-Chloropropane)	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	1
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2,4-Dichlorophenol	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2,4-Dimethylphenol	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2,4-Dinitrophenol	ND	630	ug/Kg	1	10/26/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2-Chloronaphthalene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2-Chlorophenol	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2-Methylnaphthalene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
2-Nitroaniline	ND	630	ug/Kg	1	10/26/25	MR	SW8270E	
2-Nitrophenol	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	10/26/25	MR	SW8270E	1
3,3'-Dichlorobenzidine	ND	470	ug/Kg	1	10/26/25	MR	SW8270E	
3-Nitroaniline	ND	630	ug/Kg	1	10/26/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	10/26/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	10/26/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
4-Chloroaniline	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
4-Nitroaniline	ND	630	ug/Kg	1	10/26/25	MR	SW8270E	
4-Nitrophenol	ND	1100	ug/Kg	1	10/26/25	MR	SW8270E	
Acenaphthene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Acenaphthylene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Acetophenone	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Anthracene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Atrazine	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Benz(a)anthracene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Benzaldehyde	570	280	ug/Kg	1	10/26/25	MR	SW8270E	
Benzo(a)pyrene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Benzo(b)fluoranthene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Benzo(ghi)perylene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Benzo(k)fluoranthene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Benzyl butyl phthalate	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	10/26/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Caprolactam	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Carbazole	ND	390	ug/Kg	1	10/26/25	MR	SW8270E	
Chrysene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Dibenz(a,h)anthracene	ND	200	ug/Kg	1	10/26/25	MR	SW8270E	
Dibenzofuran	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Diethyl phthalate	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Dimethylphthalate	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	
Di-n-butylphthalate	ND	790	ug/Kg	1	10/26/25	MR	SW8270E	
Di-n-octylphthalate	ND	280	ug/Kg	1	10/26/25	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluoranthene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Fluorene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Hexachlorobenzene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Hexachlorobutadiene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Hexachloroethane	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Isophorone	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Naphthalene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Nitrobenzene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	10/26/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	10/26/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	10/26/25	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	10/26/25	MR	SW8270E
Phenanthrene	400	280	ug/Kg	1	10/26/25	MR	SW8270E
Phenol	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
Pyrene	ND	280	ug/Kg	1	10/26/25	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	117		%	1	10/26/25	MR	30 - 130 %
% 2-Fluorobiphenyl	86		%	1	10/26/25	MR	30 - 130 %
% 2-Fluorophenol	63		%	1	10/26/25	MR	30 - 130 %
% Nitrobenzene-d5	100		%	1	10/26/25	MR	30 - 130 %
% Phenol-d5	71		%	1	10/26/25	MR	30 - 130 %
% Terphenyl-d14	74		%	1	10/26/25	MR	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
2,4,5-Trichlorophenol	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
2,4,6-Trichlorophenol	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
2,4-Dinitrotoluene	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
2-Methylphenol (o-cresol)	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
Hexachlorobenzene	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
Hexachlorobutadiene	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
Hexachloroethane	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
Nitrobenzene	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
Pentachlorophenol	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
Pyridine	ND	83	ug/L	1	10/28/25	MR	SW-846 1311/8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	84		%	1	10/28/25	MR	15 - 110 %
% 2-Fluorobiphenyl	63		%	1	10/28/25	MR	30 - 130 %
% 2-Fluorophenol	57		%	1	10/28/25	MR	15 - 110 %
% Nitrobenzene-d5	68		%	1	10/28/25	MR	30 - 130 %
% Phenol-d5	52		%	1	10/28/25	MR	15 - 110 %
% Terphenyl-d14	82		%	1	10/28/25	MR	30 - 130 %
Semivolatile Library Search	Completed				10/27/25	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.
3 = This parameter exceeds laboratory specified limits.

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.

Hexavalent Chromium:
This sample is in a reducing state.

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

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.

S - Laboratory solvent, contamination is possible.

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

Phyllis Shiller, Laboratory Director
October 30, 2025
Reviewed and Released by: Anil Makol, Project Manager

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP99

Lab Name: Phoenix Environmental Labs Client: AES-EASTSIDE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCU5677(

Matrix:(soil/water): SOIL Lab Sample ID: CU56770

Sample wt/vol: 3.83 (g/mL) g Lab File ID: 1023_14.D

Level: (low/med): Low Date Received: 10/22/25

% Moisture: not dec. 18 Date Analyzed: 10/23/25

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.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: DEP99

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

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCU5677(

Matrix:(soil/water): SOIL | Lab Sample ID: CU56770

Sample wt/vol: 15.49 (g/mL) g | Lab File ID: 1026_17.D

Level: (low/med): Low | Date Received: 10/22/25

% Moisture: not dec. 18 | decanted:(Y/N) NA | Date Extracted: 10/26/25

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 10/26/2025

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

Injection Volume: 1 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.059	5200	JNA
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl	3.165	900	JNC
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.740	2600	JNC
004126-78-7	Cycloheptane, methyl-	6.829	1600	JN
	unknown hydrocarbon	7.396	620	J
	unknown hydrocarbon	7.545	1600	J
	unknown hydrocarbon	7.577	18000	J
	unknown hydrocarbon	7.625	1600	J
	unknown hydrocarbon	7.684	40000	J
	unknown hydrocarbon	7.764	1700	J
	unknown hydrocarbon	7.850	1600	J
	unknown hydrocarbon	7.882	880	J
071502-22-2	9-Hexacosene	8.245	2800	JN
000483-65-8	Phenanthrene, 1-methyl-7-(1-methyl	8.459	13000	JN
	unknown hydrocarbon	8.747	700	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.

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

NY # 11301

QA/QC Report

October 30, 2025

QA/QC Data

SDG I.D.: GCU56770

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 810236 (mg/kg), QC Sample No: CU57946 (CU56770)														
Chromium, Hexavalent - Soil														
Chromium, Hexavalent	BRL	0.40	<0.42	<0.41	NC	98.5						80 - 120	30	
Chromium, Hexavalent (Ins)						90.3			95.8			80 - 120	30	
Chromium, Hexavalent (Sol)						94.3			30.2			80 - 120	30	m
Comment:														
The QC sample is in a reducing state, acceptance criteria are not applicable for samples in a reducing state. The soluble spike was analyzed twice with similar recoveries.														
Additional Hexavalent Chromium criteria: MS acceptance range is 75-125%.														
QA/QC Batch 809938 (mg/L), QC Sample No: CU56423 (CU56770)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	94.3			94.7			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 809986 (mg/kg), QC Sample No: CU56796 (CU56770)														
Mercury - Soil	BRL	0.075	0.0959	0.0909	NC	94.6			120			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 809940 (mg/L), QC Sample No: CU55760 (CU56770)														
ICP Metals - TCLP Extraction														
Arsenic	BRL	0.10	<0.10	<0.10	NC	104	106	1.9	103			80 - 120	20	
Barium	BRL	0.10	0.20	0.15	NC	102	102	0.0	102			80 - 120	20	
Cadmium	BRL	0.050	<0.050	<0.050	NC	99.9	101	1.1	103			80 - 120	20	
Chromium	BRL	0.10	<0.10	<0.10	NC	101	102	1.0	103			80 - 120	20	
Lead	BRL	0.10	<0.10	<0.10	NC	99.6	101	1.4	102			80 - 120	20	
Selenium	BRL	0.10	<0.10	<0.10	NC	110	112	1.8	105			80 - 120	20	
Silver	BRL	0.10	<0.10	<0.10	NC	106	106	0.0	103			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 810118 (mg/kg), QC Sample No: CU56806 (CU56770)														
ICP Metals - Soil														
Aluminum	BRL	5.0	1620	1980	20.0	108	99.7	8.0	NC	NC	NC	75 - 125	30	
Antimony	BRL	3.3	<3.7	<4.0	NC	91.3	86.0	6.0	90.0	88.4	1.8	75 - 125	30	
Arsenic	BRL	0.67	<0.75	<0.80	NC	100	91.5	8.9	89.0	88.2	0.9	75 - 125	30	
Barium	BRL	0.33	7.1	7.70	8.10	121	93.0	26.2	102	98.6	3.4	75 - 125	30	
Beryllium	BRL	0.27	<0.30	<0.32	NC	106	93.1	13.0	97.3	95.5	1.9	75 - 125	30	
Cadmium	BRL	0.33	<0.37	<0.40	NC	99.3	86.3	14.0	96.1	95.2	0.9	75 - 125	30	
Calcium	BRL	5.0	640	812	23.7	103	94.3	8.8	>130	>130	NC	75 - 125	30	m
Chromium	BRL	0.33	5.34	6.35	17.3	102	92.7	9.6	99.6	97.6	2.0	75 - 125	30	

QA/QC Data

SDG I.D.: GCU56770

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Cobalt	BRL	0.33	1.64	1.85	NC	106	95.1	10.8	97.6	96.7	0.9	75 - 125	30	
Copper	BRL	0.67	3.4	4.14	NC	105	95.7	9.3	101	98.1	2.9	75 - 125	30	
Iron	BRL	5.0	4420	4580	3.60	104	99.3	4.6	NC	NC	NC	75 - 125	30	
Lead	BRL	0.33	4.5	5.73	24.0	101	91.2	10.2	96.8	96.1	0.7	75 - 125	30	
Magnesium	BRL	5.0	374	446	17.6	101	95.4	5.7	>130	>130	NC	75 - 125	30	m
Manganese	BRL	0.33	36.2	38.5	6.20	104	90.3	14.1	103	106	2.9	75 - 125	30	
Nickel	BRL	0.33	3.69	4.67	23.4	103	92.1	11.2	97.0	97.6	0.6	75 - 125	30	
Potassium	BRL	5.0	296	287	3.10	107	100	6.8	116	106	9.0	75 - 125	30	
Selenium	BRL	1.3	<1.5	<1.6	NC	90.9	88.1	3.1	79.5	77.9	2.0	75 - 125	30	
Silver	BRL	0.33	<0.37	<0.40	NC	106	97.4	8.5	93.2	91.4	2.0	75 - 125	30	
Sodium	BRL	5.0	20	24.8	NC	108	98.9	8.8	124	115	7.5	75 - 125	30	
Thallium	BRL	3.0	<1.5	<3.6	NC	99.1	86.3	13.8	94.5	93.2	1.4	75 - 125	30	
Vanadium	BRL	0.33	4.67	5.13	9.40	101	92.3	9.0	99.2	97.2	2.0	75 - 125	30	
Zinc	BRL	0.67	7.4	8.87	18.1	97.5	88.7	9.5	93.9	92.9	1.1	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

October 30, 2025

QA/QC Data

SDG I.D.: GCU56770

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 809948 (mg/Kg), QC Sample No: CU53448 (CU56770)													
Reactivity Cyanide	BRL	5	<6	<5.6	NC	99.0						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	92.0						80 - 120	30
QA/QC Batch 810496 (mg/Kg), QC Sample No: CU56806 (CU56770)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.58	<0.58	NC	96.7	88.8	8.5	105			80 - 120	30
Comment:													
Additional: MS acceptance range is 75-125%.													
QA/QC Batch 809895 (PH), QC Sample No: CU56046 (CU56770)													
pH			8.37	8.35	0.20	99.9						85 - 115	20
QA/QC Batch 810593 (Degree F), QC Sample No: CU58459 (CU56770)													
Flash Point			>200	>200	NC	103						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													

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

NY # 11301

QA/QC Report

October 30, 2025

QA/QC Data

SDG I.D.: GCU56770

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 810577 (mg/kg), QC Sample No: CU55287 (CU56770)										
Extractable Petroleum Hydrocarbons - Soil										
C9-C28	ND	10	106	104	1.9	111	110	0.9	40 - 140	25
C9-C28 #2 Fuel / Diesel			104	93	11.2				40 - 140	25
>C28-C40	ND	10	87	83	4.7	112	110	1.8	40 - 140	25
C9 - Nonane	ND	3.3	78	75	3.9	84	78	7.4	40 - 140	25
C10 - Decane	ND	3.3	94	90	4.3	98	95	3.1	40 - 140	25
C12 - Dodecane	ND	3.3	106	105	0.9	110	110	0.0	40 - 140	25
C14 - Tetradecane	ND	3.3	109	108	0.9	113	116	2.6	40 - 140	25
C16 - Hexadecane	ND	3.3	113	111	1.8	117	120	2.5	40 - 140	25
C18 - Octadecane	ND	3.3	125	119	4.9	125	130	3.9	40 - 140	25
C20 - Eicosane	ND	3.3	110	109	0.9	115	117	1.7	40 - 140	25
C21 - Heneicosane	ND	3.3	100	102	2.0	109	103	5.7	40 - 140	25
C22 - Docosane	ND	3.3	120	114	5.1	121	122	0.8	40 - 140	25
C24 - Tetracosane	ND	3.3	105	104	1.0	112	109	2.7	40 - 140	25
C26 - Hexacosane	ND	3.3	105	104	1.0	111	111	0.0	40 - 140	25
C28 - Octacosane	ND	3.3	105	104	1.0	111	113	1.8	40 - 140	25
C30 - Tricotane	ND	3.3	102	98	4.0	110	110	0.0	40 - 140	25
C32 - Dotriacontance	ND	3.3	98	89	9.6	110	110	0.0	40 - 140	25
C34 - Tetratriacontane	ND	3.3	92	83	10.3	113	112	0.9	40 - 140	25
C36 - Hexatriacontane	ND	3.3	83	78	6.2	111	108	2.7	40 - 140	25
C38 - Octatriacontane	ND	3.3	76	77	1.3	112	108	3.6	40 - 140	25
C40 - Tetracontane	ND	3.3	72	75	4.1	115	112	2.6	40 - 140	25
% COD (surr)	84	%	88	86	2.3	87	97	10.9	40 - 140	25
% Terphenyl (surr)	117	%	112	112	0.0	115	118	2.6	40 - 140	25

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

QA/QC Batch 810620 (mg/Kg), QC Sample No: CU59091 (CU56770)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	87	100	13.9	65	78	18.2	30 - 130	30
% Terphenyl-d14	63	%	65	71	8.8	54	65	18.5	50 - 150	30
% Tricosane(C23)	85	%	79	88	10.8	54	67	21.5	60 - 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 810518 (mg/Kg), QC Sample No: CU57961 (CU56770 (50X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	0.10	115	116	0.9	116	117	0.9	70 - 130	30
% 2,5-Dibromotoluene (FID)	92	%	101	98	3.0	107	112	4.6	70 - 130	30

QA/QC Data

SDG I.D.: GCU56770

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 809943 (ug/L), QC Sample No: CU45985 (CU56770)											
TCLP Herbicides											
2,4,5-TP (Silvex)	ND	50	104	99	4.9	111			40 - 140	20	
2,4-D	ND	100	91	85	6.8	96			40 - 140	20	
% DCAA	65	%	69	66	4.4	76			30 - 150	20	
% DCAA (Confirmation)	64	%	62	66	6.3	67			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 810652 (ug/Kg), QC Sample No: CU56128 (CU56770)											
Chlorinated Herbicides - Soil											
2,4,5-T	ND	130	82	80	2.5	98	91	7.4	40 - 140	30	
2,4,5-TP (Silvex)	ND	130	87	84	3.5	85	80	6.1	40 - 140	30	
2,4-D	ND	250	80	78	2.5	87	81	7.1	40 - 140	30	
2,4-DB	ND	2500	90	80	11.8	83	78	6.2	40 - 140	30	
Dalapon	ND	130	76	71	6.8	75	71	5.5	40 - 140	30	
Dicamba	ND	130	85	82	3.6	86	82	4.8	40 - 140	30	
Dichloroprop	ND	130	87	94	7.7	85	79	7.3	40 - 140	30	
Dinoseb	ND	130	89	83	7.0	79	72	9.3	40 - 140	30	
% DCAA (Surrogate Rec)	83	%	93	91	2.2	94	89	5.5	30 - 150	30	
% DCAA (Surrogate Rec) (Confirm	92	%	123	112	9.4	118	113	4.3	30 - 150	30	
Comment:											
8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.											
QA/QC Batch 810417 (ug/Kg), QC Sample No: CU56805 (CU56770)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	33	74	72	2.7	73	74	1.4	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	81	77	5.1	79	83	4.9	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	82	%	95	91	4.3	93	99	6.3	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	85	%	89	86	3.4	88	94	6.6	30 - 150	30	
% TCMX (Surrogate Rec)	80	%	86	82	4.8	85	89	4.6	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	76	%	83	79	4.9	82	85	3.6	30 - 150	30	
QA/QC Batch 810418 (ug/Kg), QC Sample No: CU54385 (CU56770)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	72	75	4.1	77	63	20.0	40 - 140	30	
4,4' -DDE	ND	1.7	77	77	0.0	81	63	25.0	40 - 140	30	
4,4' -DDT	ND	1.7	75	76	1.3	80	44	58.1	40 - 140	30	r
a-BHC	ND	1.0	71	72	1.4	71	66	7.3	40 - 140	30	
a-Chlordane	ND	3.3	71	70	1.4	68	57	17.6	40 - 140	30	
Aldrin	ND	1.0	69	68	1.5	66	57	14.6	40 - 140	30	
b-BHC	ND	1.0	86	85	1.2	73	78	6.6	40 - 140	30	
Chlordane	ND	33	80	84	4.9	74	65	12.9	40 - 140	30	
d-BHC	ND	3.3	82	80	2.5	67	68	1.5	40 - 140	30	
Dieldrin	ND	1.0	73	74	1.4	71	63	11.9	40 - 140	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endosulfan I	ND	3.3	66	67	1.5	68	53	24.8	40 - 140	30
Endosulfan II	ND	3.3	81	80	1.2	86	69	21.9	40 - 140	30
Endosulfan sulfate	ND	3.3	81	83	2.4	76	72	5.4	40 - 140	30
Endrin	ND	3.3	84	85	1.2	92	81	12.7	40 - 140	30
Endrin aldehyde	ND	3.3	76	76	0.0	59	56	5.2	40 - 140	30
Endrin ketone	ND	3.3	80	81	1.2	54	63	15.4	40 - 140	30
g-BHC	ND	1.0	77	76	1.3	77	72	6.7	40 - 140	30
g-Chlordane	ND	3.3	80	84	4.9	74	65	12.9	40 - 140	30
Heptachlor	ND	3.3	74	73	1.4	74	66	11.4	40 - 140	30
Heptachlor epoxide	ND	3.3	71	71	0.0	71	61	15.2	40 - 140	30
Methoxychlor	ND	3.3	72	72	0.0	63	62	1.6	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	69	%	71	70	1.4	70	62	12.1	30 - 150	30
% DCBP (Confirmation)	63	%	64	64	0.0	69	67	2.9	30 - 150	30
% TCMX	66	%	69	66	4.4	67	62	7.8	30 - 150	30
% TCMX (Confirmation)	66	%	63	67	6.2	70	66	5.9	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 810395 (ug/L), QC Sample No: CU55060 (CU56770)

Pesticides

4,4' -DDD	ND	0.25	80	75	6.5	79			40 - 140	20
4,4' -DDE	ND	0.25	80	76	5.1	78			40 - 140	20
4,4' -DDT	ND	0.25	83	78	6.2	80			40 - 140	20
a-BHC	ND	0.15	90	89	1.1	86			40 - 140	20
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20
Aldrin	ND	0.15	85	81	4.8	80			40 - 140	20
b-BHC	ND	0.15	98	93	5.2	94			40 - 140	20
Chlordane	ND	5.0	83	79	4.9	80			40 - 140	20
d-BHC	ND	0.50	92	85	7.9	90			40 - 140	20
Dieldrin	ND	0.15	81	77	5.1	80			40 - 140	20
Endosulfan I	ND	0.50	85	80	6.1	84			40 - 140	20
Endosulfan II	ND	0.50	87	81	7.1	84			40 - 140	20
Endosulfan sulfate	ND	0.50	89	83	7.0	87			40 - 140	20
Endrin	ND	0.50	98	92	6.3	95			40 - 140	20
Endrin aldehyde	ND	0.50	76	71	6.8	75			40 - 140	20
g-BHC	ND	0.15	89	86	3.4	85			40 - 140	20
Heptachlor	ND	0.50	87	83	4.7	82			40 - 140	20
Heptachlor epoxide	ND	0.50	85	81	4.8	82			40 - 140	20
Methoxychlor	ND	0.50	87	82	5.9	84			40 - 140	20
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20
% DCBP	73	%	84	80	4.9	83			30 - 150	20
% DCBP (Confirmation)	49	%	54	51	5.7	52			30 - 150	20
% TCMX	65	%	77	74	4.0	71			30 - 150	20
% TCMX (Confirmation)	77	%	89	85	4.6	82			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 810415 (ug/kg), QC Sample No: CU55287 (CU56770)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	76	71	6.8	69	76	9.7	40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	61	56	8.5	55	59	7.0	40 - 140	30

QA/QC Data

SDG I.D.: GCU56770

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,2'-Oxybis(1-Chloropropane)	ND	230	67	59	12.7	61	73	17.9	40 - 140	30	
2,3,4,6-tetrachlorophenol	ND	230	72	69	4.3	61	73	17.9	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	84	79	6.1	72	81	11.8	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	83	76	8.8	73	81	10.4	30 - 130	30	
2,4-Dichlorophenol	ND	130	73	67	8.6	63	71	11.9	30 - 130	30	
2,4-Dimethylphenol	ND	230	67	64	4.6	56	62	10.2	30 - 130	30	
2,4-Dinitrophenol	ND	230	79	84	6.1	69	71	2.9	30 - 130	30	
2,4-Dinitrotoluene	ND	130	79	74	6.5	69	76	9.7	30 - 130	30	
2,6-Dinitrotoluene	ND	130	88	84	4.7	74	85	13.8	40 - 140	30	
2-Chloronaphthalene	ND	230	78	74	5.3	72	79	9.3	40 - 140	30	
2-Chlorophenol	ND	230	72	63	13.3	65	74	12.9	30 - 130	30	
2-Methylnaphthalene	ND	230	70	66	5.9	65	71	8.8	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	87	76	13.5	74	89	18.4	40 - 140	30	
2-Nitroaniline	ND	330	167	163	2.4	146	159	8.5	40 - 140	30	l,m
2-Nitrophenol	ND	230	74	68	8.5	67	74	9.9	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	75	68	9.8	62	74	17.6	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	85	79	7.3	73	77	5.3	40 - 140	30	
3-Nitroaniline	ND	330	93	88	5.5	79	89	11.9	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	86	87	1.2	72	75	4.1	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	81	72	11.8	68	75	9.8	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	79	75	5.2	71	76	6.8	30 - 130	30	
4-Chloroaniline	ND	230	72	68	5.7	65	67	3.0	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	79	73	7.9	70	79	12.1	40 - 140	30	
4-Nitroaniline	ND	230	87	84	3.5	79	88	10.8	40 - 140	30	
4-Nitrophenol	ND	230	97	98	1.0	96	108	11.8	30 - 130	30	
Acenaphthene	ND	230	83	78	6.2	74	87	16.1	30 - 130	30	
Acenaphthylene	ND	130	66	61	7.9	58	64	9.8	40 - 140	30	
Acetophenone	ND	230	79	72	9.3	71	84	16.8	40 - 140	30	
Anthracene	ND	230	82	78	5.0	72	87	18.9	40 - 140	30	
Atrazine	ND	130	72	64	11.8	60	64	6.5	40 - 140	30	
Benz(a)anthracene	ND	230	85	79	7.3	75	92	20.4	40 - 140	30	
Benzaldehyde	ND	230	147	147	0.0	157	179	13.1	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	75	71	5.5	63	78	21.3	40 - 140	30	
Benzo(b)fluoranthene	ND	160	74	70	5.6	67	86	24.8	40 - 140	30	
Benzo(ghi)perylene	ND	230	78	77	1.3	67	81	18.9	40 - 140	30	
Benzo(k)fluoranthene	ND	230	73	69	5.6	68	79	15.0	40 - 140	30	
Benzyl butyl phthalate	ND	230	91	81	11.6	74	75	1.3	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	65	60	8.0	58	63	8.3	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	66	61	7.9	63	70	10.5	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	94	82	13.6	78	80	2.5	40 - 140	30	
Caprolactam	ND	230	69	66	4.4	60	63	4.9	40 - 140	30	
Carbazole	ND	230	77	75	2.6	69	76	9.7	40 - 140	30	
Chrysene	ND	230	91	80	12.9	74	91	20.6	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	78	76	2.6	66	74	11.4	40 - 140	30	
Dibenzofuran	ND	230	82	76	7.6	74	81	9.0	40 - 140	30	
Diethyl phthalate	ND	230	87	83	4.7	79	86	8.5	40 - 140	30	
Dimethylphthalate	ND	230	87	79	9.6	75	83	10.1	40 - 140	30	
Di-n-butylphthalate	ND	670	75	73	2.7	68	72	5.7	40 - 140	30	
Di-n-octylphthalate	ND	230	92	84	9.1	75	76	1.3	40 - 140	30	
Fluoranthene	ND	230	71	68	4.3	66	98	39.0	40 - 140	30	r
Fluorene	ND	230	84	80	4.9	75	86	13.7	40 - 140	30	
Hexachlorobenzene	ND	130	84	80	4.9	73	84	14.0	40 - 140	30	
Hexachlorobutadiene	ND	230	58	55	5.3	57	61	6.8	40 - 140	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Hexachlorocyclopentadiene	ND	230	50	49	2.0	50	48	4.1	40 - 140	30	
Hexachloroethane	ND	130	73	69	5.6	70	79	12.1	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	81	78	3.8	66	76	14.1	40 - 140	30	
Isophorone	ND	130	60	55	8.7	53	59	10.7	40 - 140	30	
Naphthalene	ND	230	62	58	6.7	57	62	8.4	40 - 140	30	
Nitrobenzene	ND	130	80	74	7.8	75	85	12.5	40 - 140	30	
N-Nitrosodimethylamine	ND	230	57	49	15.1	50	59	16.5	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	76	71	6.8	68	83	19.9	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	83	78	6.2	73	81	10.4	40 - 140	30	
Pentachlorophenol	ND	230	68	66	3.0	58	68	15.9	30 - 130	30	
Phenanthrene	ND	130	83	77	7.5	77	117	41.2	40 - 140	30	r
Phenol	ND	230	69	67	2.9	62	76	20.3	30 - 130	30	
Pyrene	ND	230	66	63	4.7	62	88	34.7	30 - 130	30	r
% 2,4,6-Tribromophenol	102	%	92	85	7.9	83	96	14.5	30 - 130	30	
% 2-Fluorobiphenyl	90	%	83	76	8.8	76	84	10.0	30 - 130	30	
% 2-Fluorophenol	71	%	68	58	15.9	57	68	17.6	30 - 130	30	
% Nitrobenzene-d5	95	%	84	77	8.7	79	90	13.0	30 - 130	30	
% Phenol-d5	74	%	73	67	8.6	67	80	17.7	30 - 130	30	
% Terphenyl-d14	74	%	68	66	3.0	60	68	12.5	30 - 130	30	

Comment:

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

QA/QC Batch 810595 (ug/L), QC Sample No: CU59091 (CU56770)

Semivolatiles - TCLP

1,4-Dichlorobenzene	ND	17	54	63	15.4	40			40 - 140	20	
2,4,5-Trichlorophenol	ND	17	104	106	1.9	78			40 - 140	20	
2,4,6-Trichlorophenol	ND	17	99	105	5.9	73			30 - 130	20	
2,4-Dinitrotoluene	ND	58	104	111	6.5	83			30 - 130	20	
2-Methylphenol (o-cresol)	ND	17	89	99	10.6	63			40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	17	80	81	1.2	59			30 - 130	20	
Hexachlorobenzene	ND	58	101	100	1.0	83			40 - 140	20	
Hexachlorobutadiene	ND	58	62	72	14.9	46			40 - 140	20	
Hexachloroethane	ND	58	60	68	12.5	45			40 - 140	20	
Nitrobenzene	ND	58	82	94	13.6	57			40 - 140	20	
Pentachlorophenol	ND	58	91	93	2.2	69			30 - 130	20	
Pyridine	ND	83	75	67	11.3	66			40 - 140	20	
% 2,4,6-Tribromophenol	101	%	111	113	1.8	88			15 - 110	20	l
% 2-Fluorobiphenyl	76	%	92	97	5.3	67			30 - 130	20	
% 2-Fluorophenol	73	%	63	73	14.7	49			15 - 110	20	
% Nitrobenzene-d5	83	%	82	92	11.5	58			30 - 130	20	
% Phenol-d5	66	%	62	71	13.5	46			15 - 110	20	
% Terphenyl-d14	103	%	106	113	6.4	85			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 810183 (ug/kg), QC Sample No: CU56770 (CU56770)

Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	5.0	102	103	1.0				70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	98	104	5.9				70 - 130	20	
1,1-Dichloroethane	ND	5.0	99	99	0.0				70 - 130	20	
1,1-Dichloroethene	ND	5.0	107	105	1.9				70 - 130	20	
1,2,3-Trichloropropane	ND	5.0	100	94	6.2				70 - 130	20	

QA/QC Data

SDG I.D.: GCU56770

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,4-Trimethylbenzene	ND	1.0	94	97	3.1				70 - 130	20
1,2-Dibromoethane	ND	5.0	95	100	5.1				70 - 130	20
1,2-Dichloroethane	ND	5.0	92	95	3.2				70 - 130	20
1,2-Dichloropropane	ND	5.0	95	99	4.1				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	97	101	4.0				70 - 130	20
1,3-Dichloropropane	ND	5.0	94	98	4.2				70 - 130	20
1,4-dioxane	ND	100	93	98	5.2				70 - 130	20
2-Hexanone	ND	25	81	86	6.0				70 - 130	20
4-Methyl-2-pentanone	ND	25	91	94	3.2				70 - 130	20
Acetone	ND	10	87	82	5.9				70 - 130	20
Benzene	ND	1.0	97	101	4.0				70 - 130	20
Bromochloromethane	ND	5.0	100	101	1.0				70 - 130	20
Bromodichloromethane	ND	5.0	97	100	3.0				70 - 130	20
Bromoform	ND	5.0	98	104	5.9				70 - 130	20
Bromomethane	ND	5.0	102	107	4.8				70 - 130	20
Carbon Disulfide	ND	5.0	109	105	3.7				70 - 130	20
Carbon tetrachloride	ND	5.0	105	104	1.0				70 - 130	20
Chlorobenzene	ND	5.0	98	101	3.0				70 - 130	20
Chloroethane	ND	5.0	107	106	0.9				70 - 130	20
Chloroform	ND	5.0	96	97	1.0				70 - 130	20
Chloromethane	ND	5.0	107	107	0.0				70 - 130	20
cis-1,2-Dichloroethene	ND	5.0	106	108	1.9				70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	101	107	5.8				70 - 130	20
Cyclohexane	ND	5.0	98	98	0.0				70 - 130	20
Dibromochloromethane	ND	3.0	96	102	6.1				70 - 130	20
Dichlorodifluoromethane	ND	5.0	140	138	1.4				70 - 130	20
Ethylbenzene	ND	1.0	97	99	2.0				70 - 130	20
m&p-Xylene	ND	2.0	94	97	3.1				70 - 130	20
Methyl ethyl ketone	ND	5.0	78	80	2.5				70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	93	114	20.3				70 - 130	20
Methylacetate	ND	5.0	96	89	7.6				70 - 130	20
Methylcyclohexane	ND	5.0	92	94	2.2				70 - 130	20
Methylene chloride	ND	5.0	98	95	3.1				70 - 130	20
n-Butylbenzene	ND	1.0	101	103	2.0				70 - 130	20
n-Propylbenzene	ND	1.0	99	101	2.0				70 - 130	20
o-Xylene	ND	2.0	94	97	3.1				70 - 130	20
p-Isopropyltoluene	ND	1.0	100	103	3.0				70 - 130	20
sec-Butylbenzene	ND	1.0	97	101	4.0				70 - 130	20
Styrene	ND	5.0	96	99	3.1				70 - 130	20
tert-Butylbenzene	ND	1.0	100	103	3.0				70 - 130	20
Tetrachloroethene	ND	5.0	103	105	1.9				70 - 130	20
Toluene	ND	1.0	99	103	4.0				70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	103	102	1.0				70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	100	106	5.8				70 - 130	20
Trichloroethene	ND	5.0	104	106	1.9				70 - 130	20
Trichlorofluoromethane	ND	5.0	108	109	0.9				70 - 130	20
Trichlorotrifluoroethane	ND	5.0	115	110	4.4				70 - 130	20
Vinyl chloride	ND	5.0	111	110	0.9				70 - 130	20
% 1,2-dichlorobenzene-d4	95	%	100	102	2.0				70 - 130	20
% Bromofluorobenzene	93	%	98	98	0.0				70 - 130	20
% Dibromofluoromethane	101	%	104	99	4.9				70 - 130	20
% Toluene-d8	91	%	100	100	0.0				70 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Comment:										
The MS/MSD are not reported for this batch.										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.										
QA/QC Batch 810298 (ug/L), QC Sample No: CU57544 (CU56770 (10X))										
Volatiles - TCLP										
1,1-Dichloroethene	ND	5.0	97	98	1.0	92	101	9.3	70 - 130	20
1,2-Dichloroethane	ND	0.60	94	96	2.1	93	94	1.1	70 - 130	20
1,4-Dichlorobenzene	ND	1.0	96	97	1.0	94	93	1.1	70 - 130	20
Benzene	ND	0.70	95	95	0.0	92	97	5.3	70 - 130	20
Carbon tetrachloride	ND	5.0	90	92	2.2	87	94	7.7	70 - 130	20
Chlorobenzene	ND	1.0	95	95	0.0	93	95	2.1	70 - 130	20
Chloroform	ND	5.0	88	89	1.1	86	90	4.5	70 - 130	20
Methyl ethyl ketone	ND	5.0	75	79	5.2	75	74	1.3	70 - 130	20
Tetrachloroethene	ND	1.0	96	97	1.0	92	97	5.3	70 - 130	20
Trichloroethene	ND	5.0	96	93	3.2	94	96	2.1	70 - 130	20
Vinyl chloride	ND	5.0	93	97	4.2	89	96	7.6	70 - 130	20
% 1,2-dichlorobenzene-d4	100	%	99	101	2.0	99	100	1.0	70 - 130	20
% Bromofluorobenzene	94	%	96	96	0.0	96	95	1.0	70 - 130	20
% Dibromofluoromethane	93	%	96	97	1.0	93	97	4.2	70 - 130	20
% Toluene-d8	100	%	98	97	1.0	98	98	0.0	70 - 130	20
Comment:										
A blank MS/MSD was analyzed with this batch.										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.										
QA/QC Batch 810560H (ug/kg), QC Sample No: CU57908 50X (CU56770 (50X))										
Volatiles - Soil (High Level)										
1,1,2,2-Tetrachloroethane	ND	250	100	102	2.0	96	101	5.1	70 - 130	20
1,2,3-Trichlorobenzene	ND	250	110	110	0.0	100	112	11.3	70 - 130	20
1,2,4-Trichlorobenzene	ND	250	113	110	2.7	101	114	12.1	70 - 130	20
1,2,4-Trimethylbenzene	ND	250	107	108	0.9	99	108	8.7	70 - 130	20
1,2-Dibromo-3-chloropropane	ND	250	104	106	1.9	94	103	9.1	70 - 130	20
1,2-Dichlorobenzene	ND	250	103	103	0.0	95	103	8.1	70 - 130	20
1,3,5-Trimethylbenzene	ND	250	108	109	0.9	101	110	8.5	70 - 130	20
1,3-Dichlorobenzene	ND	250	106	106	0.0	97	106	8.9	70 - 130	20
1,4-Dichlorobenzene	ND	250	104	105	1.0	96	106	9.9	70 - 130	20
Isopropylbenzene	ND	250	107	110	2.8	101	110	8.5	70 - 130	20
% 1,2-dichlorobenzene-d4	99	%	101	101	0.0	100	100	0.0	70 - 130	20
% Bromofluorobenzene	97	%	98	98	0.0	98	98	0.0	70 - 130	20
% Dibromofluoromethane	90	%	92	93	1.1	91	95	4.3	70 - 130	20
% Toluene-d8	96	%	96	96	0.0	95	96	1.0	70 - 130	20
Comment:										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.										

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.: GCU56770

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
October 30, 2025

Thursday, October 30, 2025

Criteria: NY: 375, 375COM, 375RRS

State: NY

Sample Criteria Exceedances Report

GCU56770 - AES-EASTSIDE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CU56770	$8260_TCL_SM	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	81	50	50	50	ug/kg
CU56770	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential Restricted	7.03	0.40	4.3	4.3	mg/Kg
CU56770	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	7.03	0.40	2.5	2.5	mg/Kg
CU56770	CU-SM	Copper	NY / 375-6.8 Metals / Commercial	802	0.8	270	270	mg/kg
CU56770	CU-SM	Copper	NY / 375-6.8 Metals / Residential Restricted	802	0.8	270	270	mg/kg
CU56770	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	802	0.8	50	50	mg/kg
CU56770	HG-SMDMA	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.590	0.091	0.18	0.18	mg/Kg
CU56770	PB-SM	Lead	NY / 375-6.8 Metals / Commercial	1160	0.40	1000	1000	mg/Kg
CU56770	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	1160	0.40	400	400	mg/Kg
CU56770	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	1160	0.40	63	63	mg/Kg
CU56770	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	18.8	0.10	5	5	mg/L
CU56770	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	385	0.8	109	109	mg/Kg

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

NY # 11301

Analysis Comments

October 30, 2025 SDG I.D.: GCU56770

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

PEST Narration

AU-ECD4 10/27/25-1: CU56770

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CU56770
Preceding CC O27B033 - None.
Succeeding CC O27B046 - Methoxychlor 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.

SVOA Narration

CHEM07 10/27/25-2: CU56770

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 0.078 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.079 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

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

VOA Narration

CHEM14 10/23/25-1: CU56770

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 30% (20%), Chloroethane 22% (20%), Methyl ethyl ketone 25% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Methyl ethyl ketone 26%L (20%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

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

CHEM31 10/24/25-1: CU56770

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 25% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

October 30, 2025

SDG I.D.: GCU56770

The samples in this delivery group were received at 1.7°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Temp 17 °C Coolant: Cooler: Yes ☒ No ☐ IPK ☒ ICE ☐ No ☐

NY/NJ/PA CHAIN OF CUSTODY RECORD

Pg 1 of 1

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

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

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

Project: Eastside Coastal Resiliency Project P.O: 0987
Report to: AES
Invoice to: AES
QUOTE # : AE090921BA

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Date: 10/21/25

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	TAL/TCL+30+NY add	Full TCLP+RIC	Hex Chromium	Herbs	NJ EPH	TPH DRO+GRO	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container (8) oz	GL Soil container (4) oz VOCgr	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL NAOH 250ml	PL HNO_3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
56770	DEP99	S	10/21/25	1:18		X	X	X	X	X	X			3	2	1							

Relinquished by:	Accepted by:	Date:	Time:
		10/22/25	0930
		10/20/25	1715

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☐ 5 Days* (circled)
☐ Standard
* SURCHARGE APPLIES

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

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

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

State Samples Collected? NY

Comments, Special Requirements or Regulations:

***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 1/2025