

DATA PACKAGE

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : CON EDISON RICHMOND TERRACE

LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC

300 Kimball Drive

Parsippany, NJ - 07054

Phone No: 9735604900

ORDER ID : Q3310

ATTENTION : Gregory DelMastro



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3310

Project ID : Con Edison Richmond Terrace

Client : Langan Engineering and Environmental Services, Inc

Lab Sample Number

Q3310-01
Q3310-02
Q3310-03

Client Sample Number

SS-01-0-1
SS-01-1-2
SS-01-2-3

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:08 pm, Oct 17, 2025

Date: 10/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Langan Engineering and Environmental Services, Inc

Project Name: Con Edison Richmond Terrace

Project # N/A

Order ID # Q3310

Test Name: VOC-TCLVOA-10,SVOC-TCL BNA -20,PCB,Pesticide-TCL,Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 10/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10,SVOC-TCL BNA -20,PCB,Pesticide-TCL,Mercury,Metals ICP-TAL. This data package contains results for VOC-TCLVOA-10(8260D),SVOC-TCL BNA -20(8270E),PCB(8082A),Pesticide-TCL(8081B),Mercury(7471B),Metals ICP-TAL(6010D).

C. Analytical Techniques:

VOC-TCLVOA-10 : The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

SVOC-TCL BNA -20 : The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

Pesticide-TCL : The analysis was performed on instrument ECD_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,; Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

PCB : The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

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Mercury, Metals ICP-TAL : The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds except following

Pesticide-TCL : The MS {Q3310-01MS} with File ID: PL097602.D recoveries met the requirements for all compounds except for [Endrin ketone(1) - 51%] due to matrix interference.

Mercury, Metals ICP-TAL : The Matrix Spike (OR-02-100925MS) analysis met criteria for all compounds except for Antimony and Potassium due to Chemical Interference during Digestion process.

The MSD recoveries met the requirements for all compounds except following

Pesticide-TCL : The MSD {Q3310-01MSD} with File ID: PL097603.D recoveries met the requirements for all compounds except for [Endrin ketone(2) - 53%] due to matrix interference.

Mercury, Metals ICP-TAL : The Matrix Spike Duplicate (72-11989MSD) analysis met criteria for all compounds except for Mercury due to sample matrix interference. The Matrix Spike Duplicate (OR-02-100925MSD) analysis met criteria for all compounds except for Antimony, Copper, Potassium and Sodium due to Chemical Interference during Digestion Process.

The RPD were met for all analysis except following

SVOC-TCL BNA -20 : The RPD for {Q3310-01MSD} with File ID: BF143929.D met criteria except for 2,4-Dinitrophenol[44%], 4,6-Dinitro-2-methylphenol[49%] and Hexachlorocyclopentadiene[21%] due to difference in MS and MSD concentrations.

PCB : The RPD for {Q3310-02MSD} with File ID: PP075717.D met criteria except for [AR1260(1)-27%],[AR1260(2)-19%] due to difference in MSMSD concentrations.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements except following

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SVOC-TCL BNA -20 : The %RSD is greater than 20% in the Initial Calibration (Method 8270-BF100625.M) for 2,4-Dinitrophenol, this Compounds is passing on Linear regression.

The Continuous Calibration met the requirements except following
PCB : The Continuous Calibration File ID PP075704.D met the requirements except for Tetrachloro-m-xylene is failing in 2nd column, however it is passed in 1st column therefore no corrective action was taken.

The Tuning criteria met requirements.

Mercury, Metals ICP-TAL : Sample SS-01-0-1 was diluted due to high concentrations for Mercury & Sample SS-01-1-2 was diluted due to high concentrations for Mercury & Sample SS-01-2-3 was diluted due to high concentrations for Mercury.

The Duplicate analysis met criteria for all samples.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

The soil samples results are based on a dry weight basis.

Mercury, Metals ICP-TAL : The Post Digest Spike (OR-02-100925A) analysis met criteria for all compounds except for Antimony, Copper, Potassium and Sodium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike. Sample Q3310-03 was oversaturated for Silver parameter so silver reported from its 2X Dilution.

VOC-TCLVOA-10 : Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Trip Blank was not provided with this set of samples.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:08 pm, Oct 17, 2025

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3310

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/17/2025

Hit Summary Sheet
SW-846

SDG No.: Q3310
Client: Langan Engineering and Environmental Services, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SS-01-0-1							
Q3310-01	SS-01-0-1	SOIL	Acetone	6.70	J	4.30	22.8	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Methylene Chloride	5.40	J	3.20	9.10	ug/Kg
			Total Voc :	12.1				
			Total Concentration:	12.1				
Client ID:	SS-01-1-2							
Q3310-02	SS-01-1-2	SOIL	Methylene Chloride	4.50	J	3.10	8.80	ug/Kg
Q3310-02	SS-01-1-2	SOIL	m/p-Xylenes	2.10	J	1.10	8.80	ug/Kg
Q3310-02	SS-01-1-2	SOIL	o-Xylene	1.40	J	0.72	4.40	ug/Kg
			Total Voc :	8.00				
			Total Concentration:	8.00				
Client ID:	SS-01-2-3							
Q3310-03	SS-01-2-3	SOIL	Acetone	10.2	J	3.90	20.4	ug/Kg
Q3310-03	SS-01-2-3	SOIL	Methylene Chloride	3.00	J	2.90	8.10	ug/Kg
			Total Voc :	13.2				
			Total Concentration:	13.2				



SAMPLE DATA

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-0-1	SDG No.:	Q3310
Lab Sample ID:	Q3310-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	65.3
Sample Wt/Vol:	8.41 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023416.D	1	10/09/25 12:34	VY100925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.60	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.60	ug/Kg
74-83-9	Bromomethane	0.97	U	0.97	4.60	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.97	U	0.97	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.91	U	0.91	4.60	ug/Kg
67-64-1	Acetone	6.70	J	4.30	22.8	ug/Kg
75-15-0	Carbon Disulfide	0.97	U	0.97	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.66	U	0.66	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	5.40	J	3.20	9.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
110-82-7	Cyclohexane	0.72	U	0.72	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	22.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.88	U	0.88	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.68	U	0.68	4.60	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.60	ug/Kg
67-66-3	Chloroform	0.76	U	0.76	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.83	U	0.83	4.60	ug/Kg
71-43-2	Benzene	0.72	U	0.72	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	4.60	ug/Kg
79-01-6	Trichloroethene	0.74	U	0.74	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.83	U	0.83	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	22.8	ug/Kg
108-88-3	Toluene	0.71	U	0.71	4.60	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/07/25	
Project:	Con Edison Richmond Terrace		Date Received:	10/08/25	
Client Sample ID:	SS-01-0-1		SDG No.:	Q3310	
Lab Sample ID:	Q3310-01		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	65.3	
Sample Wt/Vol:	8.41	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023416.D	1	10/09/25 12:34	VY100925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.59	U	0.59	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.56	U	0.56	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	22.8	ug/Kg
124-48-1	Dibromochloromethane	0.79	U	0.79	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.80	U	0.80	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.96	U	0.96	4.60	ug/Kg
108-90-7	Chlorobenzene	0.83	U	0.83	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.61	U	0.61	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.10	ug/Kg
95-47-6	o-Xylene	0.75	U	0.75	4.60	ug/Kg
100-42-5	Styrene	0.65	U	0.65	4.60	ug/Kg
75-25-2	Bromoform	0.78	U	0.78	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.71	U	0.71	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.5		63 - 155	127%	SPK: 50
1868-53-7	Dibromofluoromethane	55.2		70 - 134	110%	SPK: 50
2037-26-5	Toluene-d8	50.3		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.4		17 - 146	73%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	559000	7.713			
540-36-3	1,4-Difluorobenzene	1090000	8.616			
3114-55-4	Chlorobenzene-d5	912000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	233000	13.346			

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace		Date Received:	10/08/25
Client Sample ID:	SS-01-0-1		SDG No.:	Q3310
Lab Sample ID:	Q3310-01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	65.3
Sample Wt/Vol:	8.41	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023416.D	1	10/09/25 12:34	VY100925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-1-2	SDG No.:	Q3310
Lab Sample ID:	Q3310-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	72.4
Sample Wt/Vol:	7.82 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023417.D	1	10/09/25 12:57	VY100925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.70	U	0.70	4.40	ug/Kg
74-83-9	Bromomethane	0.94	U	0.94	4.40	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.94	U	0.94	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.88	U	0.88	4.40	ug/Kg
67-64-1	Acetone	4.20	U	4.20	22.1	ug/Kg
75-15-0	Carbon Disulfide	0.94	U	0.94	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.64	U	0.64	4.40	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	4.50	J	3.10	8.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.76	U	0.76	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.71	U	0.71	4.40	ug/Kg
110-82-7	Cyclohexane	0.70	U	0.70	4.40	ug/Kg
78-93-3	2-Butanone	5.80	U	5.80	22.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.86	U	0.86	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.66	U	0.66	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.74	U	0.74	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.82	U	0.82	4.40	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.40	ug/Kg
71-43-2	Benzene	0.70	U	0.70	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.70	U	0.70	4.40	ug/Kg
79-01-6	Trichloroethene	0.72	U	0.72	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.80	U	0.80	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.69	U	0.69	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.1	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/07/25	
Project:	Con Edison Richmond Terrace		Date Received:	10/08/25	
Client Sample ID:	SS-01-1-2		SDG No.:	Q3310	
Lab Sample ID:	Q3310-02		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	72.4	
Sample Wt/Vol:	7.82	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023417.D	1	10/09/25 12:57	VY100925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.55	U	0.55	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.81	U	0.81	4.40	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.1	ug/Kg
124-48-1	Dibromochloromethane	0.77	U	0.77	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.78	U	0.78	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.93	U	0.93	4.40	ug/Kg
108-90-7	Chlorobenzene	0.80	U	0.80	4.40	ug/Kg
100-41-4	Ethyl Benzene	0.59	U	0.59	4.40	ug/Kg
179601-23-1	m/p-Xylenes	2.10	J	1.10	8.80	ug/Kg
95-47-6	o-Xylene	1.40	J	0.72	4.40	ug/Kg
100-42-5	Styrene	0.63	U	0.63	4.40	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.40	ug/Kg
98-82-8	Isopropylbenzene	0.69	U	0.69	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.1		63 - 155	120%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	51.2		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.5		17 - 146	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	558000	7.713			
540-36-3	1,4-Difluorobenzene	1090000	8.616			
3114-55-4	Chlorobenzene-d5	941000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	284000	13.346			

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/07/25	
Project:	Con Edison Richmond Terrace		Date Received:	10/08/25	
Client Sample ID:	SS-01-1-2		SDG No.:	Q3310	
Lab Sample ID:	Q3310-02		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	72.4	
Sample Wt/Vol:	7.82	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023417.D	1	10/09/25 12:57	VY100925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/07/25	
Project:	Con Edison Richmond Terrace		Date Received:	10/08/25	
Client Sample ID:	SS-01-2-3		SDG No.:	Q3310	
Lab Sample ID:	Q3310-03		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	75.1	
Sample Wt/Vol:	8.17	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023418.D	1	10/09/25 13:21	VY100925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.93	U	0.93	4.10	ug/Kg
74-87-3	Chloromethane	0.93	U	0.93	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.64	U	0.64	4.10	ug/Kg
74-83-9	Bromomethane	0.87	U	0.87	4.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.99	U	0.99	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.86	U	0.86	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.81	U	0.81	4.10	ug/Kg
67-64-1	Acetone	10.2	J	3.90	20.4	ug/Kg
75-15-0	Carbon Disulfide	0.86	U	0.86	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.59	U	0.59	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	3.00	J	2.90	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.10	ug/Kg
78-93-3	2-Butanone	5.30	U	5.30	20.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.79	U	0.79	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	4.10	ug/Kg
74-97-5	Bromochloromethane	0.94	U	0.94	4.10	ug/Kg
67-66-3	Chloroform	0.68	U	0.68	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.74	U	0.74	4.10	ug/Kg
71-43-2	Benzene	0.64	U	0.64	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.64	U	0.64	4.10	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.74	U	0.74	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.64	U	0.64	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.4	ug/Kg
108-88-3	Toluene	0.64	U	0.64	4.10	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-2-3	SDG No.:	Q3310
Lab Sample ID:	Q3310-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	75.1
Sample Wt/Vol:	8.17 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023418.D	1	10/09/25 13:21	VY100925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.53	U	0.53	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.75	U	0.75	4.10	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.4	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.72	U	0.72	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.86	U	0.86	4.10	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.55	U	0.55	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.10	ug/Kg
95-47-6	o-Xylene	0.67	U	0.67	4.10	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.10	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.64	U	0.64	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.99	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.8		63 - 155	120%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		70 - 134	110%	SPK: 50
2037-26-5	Toluene-d8	52.0		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.4		17 - 146	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	579000	7.713			
540-36-3	1,4-Difluorobenzene	1100000	8.616			
3114-55-4	Chlorobenzene-d5	964000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	311000	13.346			

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/07/25	
Project:	Con Edison Richmond Terrace		Date Received:	10/08/25	
Client Sample ID:	SS-01-2-3		SDG No.:	Q3310	
Lab Sample ID:	Q3310-03		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	75.1	
Sample Wt/Vol:	8.17	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023418.D	1	10/09/25 13:21	VY100925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

LAB CHRONICLE

OrderID:	Q3310	OrderDate:	10/8/2025 1:24:21 PM
Client:	Langan Engineering and Environmental Services, Inc	Project:	Con Edison Richmond Terrace
Contact:	Gregory DelMastro	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3310-01	SS-01-0-1	SOIL	VOC-TCLVOA-10	8260D	10/07/25		10/09/25	10/08/25
Q3310-02	SS-01-1-2	SOIL	VOC-TCLVOA-10	8260D	10/07/25		10/09/25	10/08/25
Q3310-03	SS-01-2-3	SOIL	VOC-TCLVOA-10	8260D	10/07/25		10/09/25	10/08/25

Hit Summary Sheet SW-846

SDG No.: Q3310

Client: Langan Engineering and Environmental Services, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SS-01-0-1								
Q3310-01	SS-01-0-1	SOIL	Naphthalene	180.000	J	34.7	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Acenaphthene	220.000	J	32.6	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Dibenzofuran	150.000	J	34.7	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Fluorene	160.000	J	38.7	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Phenanthrene	1,800.000		32	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Anthracene	470.000		50.9	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Carbazole	310.000		47.7	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Fluoranthene	2,200.000		45.9	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Pyrene	1,300.000		55.1	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Benzo(a)anthracene	1,000.000		35.2	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Chrysene	850.000		30.4	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Benzo(b)fluoranthene	1,200.000		29.1	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Benzo(k)fluoranthene	380.000		34.3	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Benzo(a)pyrene	800.000		45.1	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Indeno(1,2,3-cd)pyrene	310.000		44.5	260	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Benzo(g,h,i)perylene	360.000		39.3	260	ug/Kg
Total Svoc :				11,690.00				
Q3310-01	SS-01-0-1	SOIL	9H-Fluoren-9-one	*	130.000	J 0	0	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Benzo[e]pyrene	*	440.000	J 0	0	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Benzophenone	*	350.000	J 0	0	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Dibenzothiophene	*	110.000	J 0	0	ug/Kg
Q3310-01	SS-01-0-1	SOIL	n-Hexadecanoic acid	*	980.000	J 0	0	ug/Kg
Q3310-01	SS-01-0-1	SOIL	Pentadecanoic acid	*	200.000	J 0	0	ug/Kg
Total Tics :				2,210.00				
Total Concentration:				13,900.00				
Client ID : SS-01-1-2								
Q3310-02	SS-01-1-2	SOIL	Phenanthrene	550.000		28.8	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Anthracene	150.000	J	45.9	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Fluoranthene	750.000		41.3	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Pyrene	470.000		49.6	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Benzo(a)anthracene	380.000		31.7	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Chrysene	300.000		27.4	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Benzo(b)fluoranthene	390.000		26.2	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Benzo(k)fluoranthene	150.000	J	30.9	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Benzo(a)pyrene	320.000		40.7	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Indeno(1,2,3-cd)pyrene	140.000	J	40.1	230	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Benzo(g,h,i)perylene	170.000	J	35.4	230	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: Q3310

Client: Langan Engineering and Environmental Services, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Svoc :	3,770.00				
Q3310-02	SS-01-1-2	SOIL	Benzophenone	*	290.000	J 0	0	ug/Kg
Q3310-02	SS-01-1-2	SOIL	n-Hexadecanoic acid	*	920.000	J 0	0	ug/Kg
Q3310-02	SS-01-1-2	SOIL	Octadecanoic acid	*	490.000	J 0	0	ug/Kg
			Total Tics :	1,700.00				
			Total Concentration:	5,470.00				
Client ID : SS-01-2-3								
Q3310-03	SS-01-2-3	SOIL	Fluoranthene		150.000	J 39.9	230	ug/Kg
Q3310-03	SS-01-2-3	SOIL	Pyrene		120.000	J 47.9	230	ug/Kg
Q3310-03	SS-01-2-3	SOIL	Chrysene		98.200	J 26.5	230	ug/Kg
Q3310-03	SS-01-2-3	SOIL	Benzo(b)fluoranthene		93.700	J 25.3	230	ug/Kg
			Total Svoc :	461.90				
Q3310-03	SS-01-2-3	SOIL	Benzophenone	*	290.000	J 0	0	ug/Kg
Q3310-03	SS-01-2-3	SOIL	n-Hexadecanoic acid	*	360.000	J 0	0	ug/Kg
			Total Tics :	650.00				
			Total Concentration:	1,111.90				



SAMPLE DATA

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SS-01-0-1
Lab Sample ID: Q3310-01
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.04 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/10/25

Date Collected: 10/07/25
Date Received: 10/08/25
SDG No.: Q3310
Matrix: SOIL
% Solid: 65.3
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	240	U	1	240	500	ug/Kg	10/10/25 16:20	PB170055
108-95-2	Phenol	33.8	U	1	33.8	260	ug/Kg	10/10/25 16:20	PB170055
111-44-4	bis(2-Chloroethyl)ether	37.2	U	1	37.2	260	ug/Kg	10/10/25 16:20	PB170055
95-57-8	2-Chlorophenol	37.3	U	1	37.3	260	ug/Kg	10/10/25 16:20	PB170055
95-48-7	2-Methylphenol	45.7	U	1	45.7	260	ug/Kg	10/10/25 16:20	PB170055
108-60-1	2,2-oxybis(1-Chloropropane)	57.4	U	1	57.4	260	ug/Kg	10/10/25 16:20	PB170055
98-86-2	Acetophenone	45.1	U	1	45.1	260	ug/Kg	10/10/25 16:20	PB170055
65794-96-9	3+4-Methylphenols	62.9	U	1	62.9	500	ug/Kg	10/10/25 16:20	PB170055
621-64-7	n-Nitroso-di-n-propylamine	72.5	U	1	72.5	120	ug/Kg	10/10/25 16:20	PB170055
67-72-1	Hexachloroethane	26.9	U	1	26.9	260	ug/Kg	10/10/25 16:20	PB170055
98-95-3	Nitrobenzene	28.0	U	1	28.0	260	ug/Kg	10/10/25 16:20	PB170055
78-59-1	Isophorone	50.2	U	1	50.2	260	ug/Kg	10/10/25 16:20	PB170055
88-75-5	2-Nitrophenol	89.0	U	1	89.0	260	ug/Kg	10/10/25 16:20	PB170055
105-67-9	2,4-Dimethylphenol	99.1	U	1	99.1	260	ug/Kg	10/10/25 16:20	PB170055
111-91-1	bis(2-Chloroethoxy)methane	47.1	U	1	47.1	260	ug/Kg	10/10/25 16:20	PB170055
120-83-2	2,4-Dichlorophenol	43.3	U	1	43.3	260	ug/Kg	10/10/25 16:20	PB170055
91-20-3	Naphthalene	180	J	1	34.7	260	ug/Kg	10/10/25 16:20	PB170055
106-47-8	4-Chloroaniline	54.1	U	1	54.1	260	ug/Kg	10/10/25 16:20	PB170055
87-68-3	Hexachlorobutadiene	38.7	U	1	38.7	260	ug/Kg	10/10/25 16:20	PB170055
105-60-2	Caprolactam	79.7	U	1	79.7	500	ug/Kg	10/10/25 16:20	PB170055
59-50-7	4-Chloro-3-methylphenol	43.9	U	1	43.9	260	ug/Kg	10/10/25 16:20	PB170055
91-57-6	2-Methylnaphthalene	39.2	U	1	39.2	260	ug/Kg	10/10/25 16:20	PB170055
77-47-4	Hexachlorocyclopentadiene	180	U	1	180	500	ug/Kg	10/10/25 16:20	PB170055
88-06-2	2,4,6-Trichlorophenol	30.3	U	1	30.3	260	ug/Kg	10/10/25 16:20	PB170055
95-95-4	2,4,5-Trichlorophenol	44.5	U	1	44.5	260	ug/Kg	10/10/25 16:20	PB170055
92-52-4	1,1-Biphenyl	33.3	U	1	33.3	260	ug/Kg	10/10/25 16:20	PB170055
91-58-7	2-Chloronaphthalene	34.4	U	1	34.4	260	ug/Kg	10/10/25 16:20	PB170055
88-74-4	2-Nitroaniline	73.6	U	1	73.6	260	ug/Kg	10/10/25 16:20	PB170055
131-11-3	Dimethylphthalate	41.4	U	1	41.4	260	ug/Kg	10/10/25 16:20	PB170055
208-96-8	Acenaphthylene	44.2	U	1	44.2	260	ug/Kg	10/10/25 16:20	PB170055
606-20-2	2,6-Dinitrotoluene	51.4	U	1	51.4	260	ug/Kg	10/10/25 16:20	PB170055
99-09-2	3-Nitroaniline	70.4	U	1	70.4	260	ug/Kg	10/10/25 16:20	PB170055
83-32-9	Acenaphthene	220	J	1	32.6	260	ug/Kg	10/10/25 16:20	PB170055
51-28-5	2,4-Dinitrophenol	350	U	1	350	500	ug/Kg	10/10/25 16:20	PB170055
100-02-7	4-Nitrophenol	160	U	1	160	500	ug/Kg	10/10/25 16:20	PB170055
132-64-9	Dibenzofuran	150	J	1	34.7	260	ug/Kg	10/10/25 16:20	PB170055
121-14-2	2,4-Dinitrotoluene	76.6	U	1	76.6	260	ug/Kg	10/10/25 16:20	PB170055
84-66-2	Diethylphthalate	43.3	U	1	43.3	260	ug/Kg	10/10/25 16:20	PB170055
7005-72-3	4-Chlorophenyl-phenylether	40.8	U	1	40.8	260	ug/Kg	10/10/25 16:20	PB170055
86-73-7	Fluorene	160	J	1	38.7	260	ug/Kg	10/10/25 16:20	PB170055
100-01-6	4-Nitroaniline	98.2	U	1	98.2	260	ug/Kg	10/10/25 16:20	PB170055
534-52-1	4,6-Dinitro-2-methylphenol	160	U	1	160	500	ug/Kg	10/10/25 16:20	PB170055

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SS-01-0-1
Lab Sample ID: Q3310-01
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.04 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/10/25

Date Collected: 10/07/25
Date Received: 10/08/25
SDG No.: Q3310
Matrix: SOIL
% Solid: 65.3
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	50.3	U	1	50.3	260	ug/Kg	10/10/25 16:20	PB170055
101-55-3	4-Bromophenyl-phenylether	42.5	U	1	42.5	260	ug/Kg	10/10/25 16:20	PB170055
118-74-1	Hexachlorobenzene	38.7	U	1	38.7	260	ug/Kg	10/10/25 16:20	PB170055
1912-24-9	Atrazine	52.0	U	1	52.0	260	ug/Kg	10/10/25 16:20	PB170055
87-86-5	Pentachlorophenol	78.5	U	1	78.5	500	ug/Kg	10/10/25 16:20	PB170055
85-01-8	Phenanthrene	1800		1	32.0	260	ug/Kg	10/10/25 16:20	PB170055
120-12-7	Anthracene	470		1	50.9	260	ug/Kg	10/10/25 16:20	PB170055
86-74-8	Carbazole	310		1	47.7	260	ug/Kg	10/10/25 16:20	PB170055
84-74-2	Di-n-butylphthalate	73.3	U	1	73.3	260	ug/Kg	10/10/25 16:20	PB170055
206-44-0	Fluoranthene	2200		1	45.9	260	ug/Kg	10/10/25 16:20	PB170055
129-00-0	Pyrene	1300		1	55.1	260	ug/Kg	10/10/25 16:20	PB170055
85-68-7	Butylbenzylphthalate	110	U	1	110	260	ug/Kg	10/10/25 16:20	PB170055
91-94-1	3,3-Dichlorobenzidine	56.1	U	1	56.1	500	ug/Kg	10/10/25 16:20	PB170055
56-55-3	Benzo(a)anthracene	1000		1	35.2	260	ug/Kg	10/10/25 16:20	PB170055
218-01-9	Chrysene	850		1	30.4	260	ug/Kg	10/10/25 16:20	PB170055
117-81-7	Bis(2-ethylhexyl)phthalate	90.5	U	1	90.5	260	ug/Kg	10/10/25 16:20	PB170055
117-84-0	Di-n-octyl phthalate	130	U	1	130	500	ug/Kg	10/10/25 16:20	PB170055
205-99-2	Benzo(b)fluoranthene	1200		1	29.1	260	ug/Kg	10/10/25 16:20	PB170055
207-08-9	Benzo(k)fluoranthene	380		1	34.3	260	ug/Kg	10/10/25 16:20	PB170055
50-32-8	Benzo(a)pyrene	800		1	45.1	260	ug/Kg	10/10/25 16:20	PB170055
193-39-5	Indeno(1,2,3-cd)pyrene	310		1	44.5	260	ug/Kg	10/10/25 16:20	PB170055
53-70-3	Dibenzo(a,h)anthracene	41.9	U	1	41.9	260	ug/Kg	10/10/25 16:20	PB170055
191-24-2	Benzo(g,h,i)perylene	360		1	39.3	260	ug/Kg	10/10/25 16:20	PB170055
95-94-3	1,2,4,5-Tetrachlorobenzene	39.2	U	1	39.2	260	ug/Kg	10/10/25 16:20	PB170055
123-91-1	1,4-Dioxane	69.1	U	1	69.1	260	ug/Kg	10/10/25 16:20	PB170055
58-90-2	2,3,4,6-Tetrachlorophenol	41.9	U	1	41.9	260	ug/Kg	10/10/25 16:20	PB170055

SURROGATES

367-12-4	2-Fluorophenol	81.7		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	79.8		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.0		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.9		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	68.8		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	34.7		10 - 105	35%	SPK: 100

INTERNAL STANDARDS

	Area Count
3855-82-1	118000
1146-65-2	440000
15067-26-2	216000
1517-22-2	321000
1719-03-5	271000
1520-96-3	261000

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	350	J	10.6	ug/Kg
000486-25-9	9H-Fluoren-9-one	130	J	11.2	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-0-1	SDG No.:	Q3310
Lab Sample ID:	Q3310-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	65.3
Sample Wt/Vol:	30.04 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level : LOW		
	Final Vol: 1000 uL		
	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
000132-65-0	Dibenzothiophene	110	J			11.3	ug/Kg		
000057-10-3	n-Hexadecanoic acid	980	J			11.9	ug/Kg		
001002-84-2	Pentadecanoic acid	200	J			12.7	ug/Kg		
000192-97-2	Benzo[e]pyrene	440	J			15.4	ug/Kg		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SS-01-1-2
Lab Sample ID: Q3310-02
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.07 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/10/25

Date Collected: 10/07/25
Date Received: 10/08/25
SDG No.: Q3310
Matrix: SOIL
% Solid: 72.4
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	210	U	1	210	450	ug/Kg	10/10/25 14:26	PB170055
108-95-2	Phenol	30.5	U	1	30.5	230	ug/Kg	10/10/25 14:26	PB170055
111-44-4	bis(2-Chloroethyl)ether	33.5	U	1	33.5	230	ug/Kg	10/10/25 14:26	PB170055
95-57-8	2-Chlorophenol	33.6	U	1	33.6	230	ug/Kg	10/10/25 14:26	PB170055
95-48-7	2-Methylphenol	41.2	U	1	41.2	230	ug/Kg	10/10/25 14:26	PB170055
108-60-1	2,2-oxybis(1-Chloropropane)	51.7	U	1	51.7	230	ug/Kg	10/10/25 14:26	PB170055
98-86-2	Acetophenone	40.7	U	1	40.7	230	ug/Kg	10/10/25 14:26	PB170055
65794-96-9	3+4-Methylphenols	56.6	U	1	56.6	450	ug/Kg	10/10/25 14:26	PB170055
621-64-7	n-Nitroso-di-n-propylamine	65.3	U	1	65.3	110	ug/Kg	10/10/25 14:26	PB170055
67-72-1	Hexachloroethane	24.3	U	1	24.3	230	ug/Kg	10/10/25 14:26	PB170055
98-95-3	Nitrobenzene	25.2	U	1	25.2	230	ug/Kg	10/10/25 14:26	PB170055
78-59-1	Isophorone	45.2	U	1	45.2	230	ug/Kg	10/10/25 14:26	PB170055
88-75-5	2-Nitrophenol	80.2	U	1	80.2	230	ug/Kg	10/10/25 14:26	PB170055
105-67-9	2,4-Dimethylphenol	89.3	U	1	89.3	230	ug/Kg	10/10/25 14:26	PB170055
111-91-1	bis(2-Chloroethoxy)methane	42.4	U	1	42.4	230	ug/Kg	10/10/25 14:26	PB170055
120-83-2	2,4-Dichlorophenol	39.0	U	1	39.0	230	ug/Kg	10/10/25 14:26	PB170055
91-20-3	Naphthalene	31.3	U	1	31.3	230	ug/Kg	10/10/25 14:26	PB170055
106-47-8	4-Chloroaniline	48.8	U	1	48.8	230	ug/Kg	10/10/25 14:26	PB170055
87-68-3	Hexachlorobutadiene	34.9	U	1	34.9	230	ug/Kg	10/10/25 14:26	PB170055
105-60-2	Caprolactam	71.8	U	1	71.8	450	ug/Kg	10/10/25 14:26	PB170055
59-50-7	4-Chloro-3-methylphenol	39.5	U	1	39.5	230	ug/Kg	10/10/25 14:26	PB170055
91-57-6	2-Methylnaphthalene	35.3	U	1	35.3	230	ug/Kg	10/10/25 14:26	PB170055
77-47-4	Hexachlorocyclopentadiene	160	U	1	160	450	ug/Kg	10/10/25 14:26	PB170055
88-06-2	2,4,6-Trichlorophenol	27.3	U	1	27.3	230	ug/Kg	10/10/25 14:26	PB170055
95-95-4	2,4,5-Trichlorophenol	40.1	U	1	40.1	230	ug/Kg	10/10/25 14:26	PB170055
92-52-4	1,1-Biphenyl	30.0	U	1	30.0	230	ug/Kg	10/10/25 14:26	PB170055
91-58-7	2-Chloronaphthalene	31.0	U	1	31.0	230	ug/Kg	10/10/25 14:26	PB170055
88-74-4	2-Nitroaniline	66.3	U	1	66.3	230	ug/Kg	10/10/25 14:26	PB170055
131-11-3	Dimethylphthalate	37.3	U	1	37.3	230	ug/Kg	10/10/25 14:26	PB170055
208-96-8	Acenaphthylene	39.8	U	1	39.8	230	ug/Kg	10/10/25 14:26	PB170055
606-20-2	2,6-Dinitrotoluene	46.3	U	1	46.3	230	ug/Kg	10/10/25 14:26	PB170055
99-09-2	3-Nitroaniline	63.4	U	1	63.4	230	ug/Kg	10/10/25 14:26	PB170055
83-32-9	Acenaphthene	29.4	U	1	29.4	230	ug/Kg	10/10/25 14:26	PB170055
51-28-5	2,4-Dinitrophenol	320	U	1	320	450	ug/Kg	10/10/25 14:26	PB170055
100-02-7	4-Nitrophenol	150	U	1	150	450	ug/Kg	10/10/25 14:26	PB170055
132-64-9	Dibenzofuran	31.3	U	1	31.3	230	ug/Kg	10/10/25 14:26	PB170055
121-14-2	2,4-Dinitrotoluene	69.0	U	1	69.0	230	ug/Kg	10/10/25 14:26	PB170055
84-66-2	Diethylphthalate	39.0	U	1	39.0	230	ug/Kg	10/10/25 14:26	PB170055
7005-72-3	4-Chlorophenyl-phenylether	36.8	U	1	36.8	230	ug/Kg	10/10/25 14:26	PB170055
86-73-7	Fluorene	34.9	U	1	34.9	230	ug/Kg	10/10/25 14:26	PB170055
100-01-6	4-Nitroaniline	88.5	U	1	88.5	230	ug/Kg	10/10/25 14:26	PB170055
534-52-1	4,6-Dinitro-2-methylphenol	140	U	1	140	450	ug/Kg	10/10/25 14:26	PB170055

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SS-01-1-2
Lab Sample ID: Q3310-02
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.07 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/10/25

Date Collected: 10/07/25
Date Received: 10/08/25
SDG No.: Q3310
Matrix: SOIL
% Solid: 72.4
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	45.3	U	1	45.3	230	ug/Kg	10/10/25 14:26	PB170055
101-55-3	4-Bromophenyl-phenylether	38.3	U	1	38.3	230	ug/Kg	10/10/25 14:26	PB170055
118-74-1	Hexachlorobenzene	34.9	U	1	34.9	230	ug/Kg	10/10/25 14:26	PB170055
1912-24-9	Atrazine	46.9	U	1	46.9	230	ug/Kg	10/10/25 14:26	PB170055
87-86-5	Pentachlorophenol	70.7	U	1	70.7	450	ug/Kg	10/10/25 14:26	PB170055
85-01-8	Phenanthrene	550		1	28.8	230	ug/Kg	10/10/25 14:26	PB170055
120-12-7	Anthracene	150	J	1	45.9	230	ug/Kg	10/10/25 14:26	PB170055
86-74-8	Carbazole	43.0	U	1	43.0	230	ug/Kg	10/10/25 14:26	PB170055
84-74-2	Di-n-butylphthalate	66.0	U	1	66.0	230	ug/Kg	10/10/25 14:26	PB170055
206-44-0	Fluoranthene	750		1	41.3	230	ug/Kg	10/10/25 14:26	PB170055
129-00-0	Pyrene	470		1	49.6	230	ug/Kg	10/10/25 14:26	PB170055
85-68-7	Butylbenzylphthalate	98.4	U	1	98.4	230	ug/Kg	10/10/25 14:26	PB170055
91-94-1	3,3-Dichlorobenzidine	50.6	U	1	50.6	450	ug/Kg	10/10/25 14:26	PB170055
56-55-3	Benzo(a)anthracene	380		1	31.7	230	ug/Kg	10/10/25 14:26	PB170055
218-01-9	Chrysene	300		1	27.4	230	ug/Kg	10/10/25 14:26	PB170055
117-81-7	Bis(2-ethylhexyl)phthalate	81.6	U	1	81.6	230	ug/Kg	10/10/25 14:26	PB170055
117-84-0	Di-n-octyl phthalate	120	U	1	120	450	ug/Kg	10/10/25 14:26	PB170055
205-99-2	Benzo(b)fluoranthene	390		1	26.2	230	ug/Kg	10/10/25 14:26	PB170055
207-08-9	Benzo(k)fluoranthene	150	J	1	30.9	230	ug/Kg	10/10/25 14:26	PB170055
50-32-8	Benzo(a)pyrene	320		1	40.7	230	ug/Kg	10/10/25 14:26	PB170055
193-39-5	Indeno(1,2,3-cd)pyrene	140	J	1	40.1	230	ug/Kg	10/10/25 14:26	PB170055
53-70-3	Dibenzo(a,h)anthracene	37.8	U	1	37.8	230	ug/Kg	10/10/25 14:26	PB170055
191-24-2	Benzo(g,h,i)perylene	170	J	1	35.4	230	ug/Kg	10/10/25 14:26	PB170055
95-94-3	1,2,4,5-Tetrachlorobenzene	35.3	U	1	35.3	230	ug/Kg	10/10/25 14:26	PB170055
123-91-1	1,4-Dioxane	62.3	U	1	62.3	230	ug/Kg	10/10/25 14:26	PB170055
58-90-2	2,3,4,6-Tetrachlorophenol	37.8	U	1	37.8	230	ug/Kg	10/10/25 14:26	PB170055

SURROGATES

367-12-4	2-Fluorophenol	78.4		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	75.7		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.3		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.3		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	68.9		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	37.7		10 - 105	38%	SPK: 100

INTERNAL STANDARDS

	Area Count
3855-82-1	111000
1146-65-2	410000
15067-26-2	210000
1517-22-2	320000
1719-03-5	259000
1520-96-3	302000

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	290	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	920	J	11.9	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-1-2	SDG No.:	Q3310
Lab Sample ID:	Q3310-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	72.4
Sample Wt/Vol:	30.07 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level : LOW		
	Final Vol: 1000 uL		
	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
000057-11-4	Octadecanoic acid	490	J			12.7	ug/Kg		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SS-01-2-3
Lab Sample ID: Q3310-03
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.05 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/10/25

Date Collected: 10/07/25
Date Received: 10/08/25
SDG No.: Q3310
Matrix: SOIL
% Solid: 75.1
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	210	U	1	210	440	ug/Kg	10/10/25 14:54	PB170055
108-95-2	Phenol	29.4	U	1	29.4	230	ug/Kg	10/10/25 14:54	PB170055
111-44-4	bis(2-Chloroethyl)ether	32.3	U	1	32.3	230	ug/Kg	10/10/25 14:54	PB170055
95-57-8	2-Chlorophenol	32.4	U	1	32.4	230	ug/Kg	10/10/25 14:54	PB170055
95-48-7	2-Methylphenol	39.7	U	1	39.7	230	ug/Kg	10/10/25 14:54	PB170055
108-60-1	2,2-oxybis(1-Chloropropane)	49.9	U	1	49.9	230	ug/Kg	10/10/25 14:54	PB170055
98-86-2	Acetophenone	39.2	U	1	39.2	230	ug/Kg	10/10/25 14:54	PB170055
65794-96-9	3+4-Methylphenols	54.6	U	1	54.6	440	ug/Kg	10/10/25 14:54	PB170055
621-64-7	n-Nitroso-di-n-propylamine	63.0	U	1	63.0	110	ug/Kg	10/10/25 14:54	PB170055
67-72-1	Hexachloroethane	23.4	U	1	23.4	230	ug/Kg	10/10/25 14:54	PB170055
98-95-3	Nitrobenzene	24.3	U	1	24.3	230	ug/Kg	10/10/25 14:54	PB170055
78-59-1	Isophorone	43.6	U	1	43.6	230	ug/Kg	10/10/25 14:54	PB170055
88-75-5	2-Nitrophenol	77.4	U	1	77.4	230	ug/Kg	10/10/25 14:54	PB170055
105-67-9	2,4-Dimethylphenol	86.1	U	1	86.1	230	ug/Kg	10/10/25 14:54	PB170055
111-91-1	bis(2-Chloroethoxy)methane	40.9	U	1	40.9	230	ug/Kg	10/10/25 14:54	PB170055
120-83-2	2,4-Dichlorophenol	37.6	U	1	37.6	230	ug/Kg	10/10/25 14:54	PB170055
91-20-3	Naphthalene	30.2	U	1	30.2	230	ug/Kg	10/10/25 14:54	PB170055
106-47-8	4-Chloroaniline	47.1	U	1	47.1	230	ug/Kg	10/10/25 14:54	PB170055
87-68-3	Hexachlorobutadiene	33.6	U	1	33.6	230	ug/Kg	10/10/25 14:54	PB170055
105-60-2	Caprolactam	69.3	U	1	69.3	440	ug/Kg	10/10/25 14:54	PB170055
59-50-7	4-Chloro-3-methylphenol	38.2	U	1	38.2	230	ug/Kg	10/10/25 14:54	PB170055
91-57-6	2-Methylnaphthalene	34.0	U	1	34.0	230	ug/Kg	10/10/25 14:54	PB170055
77-47-4	Hexachlorocyclopentadiene	150	U	1	150	440	ug/Kg	10/10/25 14:54	PB170055
88-06-2	2,4,6-Trichlorophenol	26.3	U	1	26.3	230	ug/Kg	10/10/25 14:54	PB170055
95-95-4	2,4,5-Trichlorophenol	38.7	U	1	38.7	230	ug/Kg	10/10/25 14:54	PB170055
92-52-4	1,1-Biphenyl	29.0	U	1	29.0	230	ug/Kg	10/10/25 14:54	PB170055
91-58-7	2-Chloronaphthalene	29.9	U	1	29.9	230	ug/Kg	10/10/25 14:54	PB170055
88-74-4	2-Nitroaniline	63.9	U	1	63.9	230	ug/Kg	10/10/25 14:54	PB170055
131-11-3	Dimethylphthalate	36.0	U	1	36.0	230	ug/Kg	10/10/25 14:54	PB170055
208-96-8	Acenaphthylene	38.4	U	1	38.4	230	ug/Kg	10/10/25 14:54	PB170055
606-20-2	2,6-Dinitrotoluene	44.7	U	1	44.7	230	ug/Kg	10/10/25 14:54	PB170055
99-09-2	3-Nitroaniline	61.1	U	1	61.1	230	ug/Kg	10/10/25 14:54	PB170055
83-32-9	Acenaphthene	28.3	U	1	28.3	230	ug/Kg	10/10/25 14:54	PB170055
51-28-5	2,4-Dinitrophenol	300	U	1	300	440	ug/Kg	10/10/25 14:54	PB170055
100-02-7	4-Nitrophenol	140	U	1	140	440	ug/Kg	10/10/25 14:54	PB170055
132-64-9	Dibenzofuran	30.2	U	1	30.2	230	ug/Kg	10/10/25 14:54	PB170055
121-14-2	2,4-Dinitrotoluene	66.6	U	1	66.6	230	ug/Kg	10/10/25 14:54	PB170055
84-66-2	Diethylphthalate	37.6	U	1	37.6	230	ug/Kg	10/10/25 14:54	PB170055
7005-72-3	4-Chlorophenyl-phenylether	35.5	U	1	35.5	230	ug/Kg	10/10/25 14:54	PB170055
86-73-7	Fluorene	33.6	U	1	33.6	230	ug/Kg	10/10/25 14:54	PB170055
100-01-6	4-Nitroaniline	85.3	U	1	85.3	230	ug/Kg	10/10/25 14:54	PB170055
534-52-1	4,6-Dinitro-2-methylphenol	140	U	1	140	440	ug/Kg	10/10/25 14:54	PB170055

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SS-01-2-3
Lab Sample ID: Q3310-03
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.05 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/10/25

Date Collected: 10/07/25
Date Received: 10/08/25
SDG No.: Q3310
Matrix: SOIL
% Solid: 75.1
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	43.7	U	1	43.7	230	ug/Kg	10/10/25 14:54	PB170055
101-55-3	4-Bromophenyl-phenylether	37.0	U	1	37.0	230	ug/Kg	10/10/25 14:54	PB170055
118-74-1	Hexachlorobenzene	33.6	U	1	33.6	230	ug/Kg	10/10/25 14:54	PB170055
1912-24-9	Atrazine	45.2	U	1	45.2	230	ug/Kg	10/10/25 14:54	PB170055
87-86-5	Pentachlorophenol	68.2	U	1	68.2	440	ug/Kg	10/10/25 14:54	PB170055
85-01-8	Phenanthrene	27.8	U	1	27.8	230	ug/Kg	10/10/25 14:54	PB170055
120-12-7	Anthracene	44.3	U	1	44.3	230	ug/Kg	10/10/25 14:54	PB170055
86-74-8	Carbazole	41.5	U	1	41.5	230	ug/Kg	10/10/25 14:54	PB170055
84-74-2	Di-n-butylphthalate	63.7	U	1	63.7	230	ug/Kg	10/10/25 14:54	PB170055
206-44-0	Fluoranthene	150	J	1	39.9	230	ug/Kg	10/10/25 14:54	PB170055
129-00-0	Pyrene	120	J	1	47.9	230	ug/Kg	10/10/25 14:54	PB170055
85-68-7	Butylbenzylphthalate	94.9	U	1	94.9	230	ug/Kg	10/10/25 14:54	PB170055
91-94-1	3,3-Dichlorobenzidine	48.8	U	1	48.8	440	ug/Kg	10/10/25 14:54	PB170055
56-55-3	Benzo(a)anthracene	30.6	U	1	30.6	230	ug/Kg	10/10/25 14:54	PB170055
218-01-9	Chrysene	98.2	J	1	26.5	230	ug/Kg	10/10/25 14:54	PB170055
117-81-7	Bis(2-ethylhexyl)phthalate	78.7	U	1	78.7	230	ug/Kg	10/10/25 14:54	PB170055
117-84-0	Di-n-octyl phthalate	120	U	1	120	440	ug/Kg	10/10/25 14:54	PB170055
205-99-2	Benzo(b)fluoranthene	93.7	J	1	25.3	230	ug/Kg	10/10/25 14:54	PB170055
207-08-9	Benzo(k)fluoranthene	29.8	U	1	29.8	230	ug/Kg	10/10/25 14:54	PB170055
50-32-8	Benzo(a)pyrene	39.2	U	1	39.2	230	ug/Kg	10/10/25 14:54	PB170055
193-39-5	Indeno(1,2,3-cd)pyrene	38.7	U	1	38.7	230	ug/Kg	10/10/25 14:54	PB170055
53-70-3	Dibenzo(a,h)anthracene	36.4	U	1	36.4	230	ug/Kg	10/10/25 14:54	PB170055
191-24-2	Benzo(g,h,i)perylene	34.2	U	1	34.2	230	ug/Kg	10/10/25 14:54	PB170055
95-94-3	1,2,4,5-Tetrachlorobenzene	34.0	U	1	34.0	230	ug/Kg	10/10/25 14:54	PB170055
123-91-1	1,4-Dioxane	60.1	U	1	60.1	230	ug/Kg	10/10/25 14:54	PB170055
58-90-2	2,3,4,6-Tetrachlorophenol	36.4	U	1	36.4	230	ug/Kg	10/10/25 14:54	PB170055

SURROGATES

367-12-4	2-Fluorophenol	78.0		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	74.7		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.1		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.4		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	65.0		10 - 116	43%	SPK: 150
1718-51-0	Terphenyl-d14	38.9		10 - 105	39%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	114000
1146-65-2	Naphthalene-d8	429000
15067-26-2	Acenaphthene-d10	224000
1517-22-2	Phenanthrene-d10	349000
1719-03-5	Chrysene-d12	243000
1520-96-3	Perylene-d12	304000

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	290	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	360	J	11.9	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-2-3	SDG No.:	Q3310
Lab Sample ID:	Q3310-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	75.1
Sample Wt/Vol:	30.05 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level : LOW		
	Final Vol: 1000 uL		
	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

LAB CHRONICLE

OrderID:	Q3310	OrderDate:	10/8/2025 1:24:21 PM
Client:	Langan Engineering and Environmental Services, Inc	Project:	Con Edison Richmond Terrace
Contact:	Gregory DelMastro	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3310-01	SS-01-0-1	SOIL	SVOC-TCL BNA -20	8270E	10/07/25	10/10/25	10/10/25	10/08/25
Q3310-02	SS-01-1-2	SOIL	SVOC-TCL BNA -20	8270E	10/07/25	10/10/25	10/10/25	10/08/25
Q3310-03	SS-01-2-3	SOIL	SVOC-TCL BNA -20	8270E	10/07/25	10/10/25	10/10/25	10/08/25

Hit Summary Sheet SW-846

SDG No.: Q3310

Order ID: Q3310

Client: Langan Engineering and Environmental Services.

Project ID: Con Edison Richmond Terrace

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SS-01-0-1								
Q3310-01	SS-01-0-1	SOIL	Dieldrin	4.00		0.21	2.60	ug/kg
Q3310-01	SS-01-0-1	SOIL	4,4-DDE	0.94	JP	0.21	2.60	ug/kg
Q3310-01	SS-01-0-1	SOIL	Endrin	0.67	J	0.21	2.60	ug/kg
Q3310-01	SS-01-0-1	SOIL	4,4-DDD	1.90	JP	0.23	2.60	ug/kg
Q3310-01	SS-01-0-1	SOIL	4,4-DDT	3.20	P	0.21	2.60	ug/kg
Q3310-01	SS-01-0-1	SOIL	alpha-Chlordane	3.60		0.18	2.60	ug/kg
Q3310-01	SS-01-0-1	SOIL	gamma-Chlordane	4.10		0.23	2.60	ug/kg
Total Concentration:				18.410				
Client ID : SS-01-1-2								
Q3310-02	SS-01-1-2	SOIL	4,4-DDE	1.70	JP	0.19	2.30	ug/kg
Q3310-02	SS-01-1-2	SOIL	4,4-DDD	2.50	P	0.21	2.30	ug/kg
Q3310-02	SS-01-1-2	SOIL	4,4-DDT	2.50	P	0.19	2.30	ug/kg
Q3310-02	SS-01-1-2	SOIL	alpha-Chlordane	1.70	JP	0.17	2.30	ug/kg
Q3310-02	SS-01-1-2	SOIL	gamma-Chlordane	1.20	JP	0.21	2.30	ug/kg
Total Concentration:				9.600				
Client ID : SS-01-2-3								
Q3310-03	SS-01-2-3	SOIL	4,4-DDE	0.30	J	0.19	2.30	ug/kg
Q3310-03	SS-01-2-3	SOIL	Endosulfan Sulfate	0.44	JP	0.17	2.30	ug/kg
Q3310-03	SS-01-2-3	SOIL	4,4-DDT	0.47	J	0.19	2.30	ug/kg
Q3310-03	SS-01-2-3	SOIL	alpha-Chlordane	0.17	J	0.16	2.30	ug/kg
Total Concentration:				1.380				



SAMPLE DATA

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/07/25	
Project:	Con Edison Richmond Terrace		Date Received:	10/08/25	
Client Sample ID:	SS-01-0-1		SDG No.:	Q3310	
Lab Sample ID:	Q3310-01		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	65.3	Decanted:
Sample Wt/Vol:	30.09	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL097601.D	1	10/10/25 09:06	10/10/25 14:11	PB170054

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.20	U	0.20	2.60	ug/kg
319-85-7	beta-BHC	0.27	U	0.27	2.60	ug/kg
319-86-8	delta-BHC	0.60	U	0.60	2.60	ug/kg
58-89-9	gamma-BHC (Lindane)	0.21	U	0.21	2.60	ug/kg
76-44-8	Heptachlor	0.18	U	0.18	2.60	ug/kg
309-00-2	Aldrin	0.18	U	0.18	2.60	ug/kg
1024-57-3	Heptachlor epoxide	0.29	U	0.29	2.60	ug/kg
959-98-8	Endosulfan I	0.21	U	0.21	2.60	ug/kg
60-57-1	Dieldrin	4.00		0.21	2.60	ug/kg
72-55-9	4,4-DDE	0.94	JP	0.21	2.60	ug/kg
72-20-8	Endrin	0.67	J	0.21	2.60	ug/kg
33213-65-9	Endosulfan II	0.44	U	0.44	2.60	ug/kg
72-54-8	4,4-DDD	1.90	JP	0.23	2.60	ug/kg
1031-07-8	Endosulfan Sulfate	0.20	U	0.20	2.60	ug/kg
50-29-3	4,4-DDT	3.20	P	0.21	2.60	ug/kg
72-43-5	Methoxychlor	0.56	U	0.56	2.60	ug/kg
53494-70-5	Endrin ketone	0.29	U	0.29	2.60	ug/kg
7421-93-4	Endrin aldehyde	0.56	U	0.56	2.60	ug/kg
5103-71-9	alpha-Chlordane	3.60		0.18	2.60	ug/kg
5103-74-2	gamma-Chlordane	4.10		0.23	2.60	ug/kg
8001-35-2	Toxaphene	8.30	U	8.30	50.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.4		20 - 144	52%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.4		19 - 148	67%	SPK: 20

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-0-1	SDG No.:	Q3310
Lab Sample ID:	Q3310-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	65.3
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL097601.D	1	10/10/25 09:06	10/10/25 14:11	PB170054

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/07/25	
Project:	Con Edison Richmond Terrace		Date Received:	10/08/25	
Client Sample ID:	SS-01-1-2		SDG No.:	Q3310	
Lab Sample ID:	Q3310-02		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	72.4	Decanted:
Sample Wt/Vol:	30.08	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL097604.D	1	10/10/25 09:06	10/10/25 14:52	PB170054

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.18	U	0.18	2.30	ug/kg
319-85-7	beta-BHC	0.25	U	0.25	2.30	ug/kg
319-86-8	delta-BHC	0.54	U	0.54	2.30	ug/kg
58-89-9	gamma-BHC (Lindane)	0.19	U	0.19	2.30	ug/kg
76-44-8	Heptachlor	0.17	U	0.17	2.30	ug/kg
309-00-2	Aldrin	0.17	U	0.17	2.30	ug/kg
1024-57-3	Heptachlor epoxide	0.26	U	0.26	2.30	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	2.30	ug/kg
60-57-1	Dieldrin	0.19	U	0.19	2.30	ug/kg
72-55-9	4,4-DDE	1.70	JP	0.19	2.30	ug/kg
72-20-8	Endrin	0.19	U	0.19	2.30	ug/kg
33213-65-9	Endosulfan II	0.40	U	0.40	2.30	ug/kg
72-54-8	4,4-DDD	2.50	P	0.21	2.30	ug/kg
1031-07-8	Endosulfan Sulfate	0.18	U	0.18	2.30	ug/kg
50-29-3	4,4-DDT	2.50	P	0.19	2.30	ug/kg
72-43-5	Methoxychlor	0.51	U	0.51	2.30	ug/kg
53494-70-5	Endrin ketone	0.26	U	0.26	2.30	ug/kg
7421-93-4	Endrin aldehyde	0.51	U	0.51	2.30	ug/kg
5103-71-9	alpha-Chlordane	1.70	JP	0.17	2.30	ug/kg
5103-74-2	gamma-Chlordane	1.20	JP	0.21	2.30	ug/kg
8001-35-2	Toxaphene	7.50	U	7.50	45.5	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.93		20 - 144	45%	SPK: 20
877-09-8	Tetrachloro-m-xylene	8.79		19 - 148	44%	SPK: 20

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-1-2	SDG No.:	Q3310
Lab Sample ID:	Q3310-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	72.4
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL097604.D	1	10/10/25 09:06	10/10/25 14:52	PB170054

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-2-3	SDG No.:	Q3310
Lab Sample ID:	Q3310-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	75.1
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL097606.D	1	10/10/25 09:06	10/10/25 15:19	PB170054

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.17	U	0.17	2.30	ug/kg
319-85-7	beta-BHC	0.24	U	0.24	2.30	ug/kg
319-86-8	delta-BHC	0.52	U	0.52	2.30	ug/kg
58-89-9	gamma-BHC (Lindane)	0.19	U	0.19	2.30	ug/kg
76-44-8	Heptachlor	0.16	U	0.16	2.30	ug/kg
309-00-2	Aldrin	0.16	U	0.16	2.30	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	2.30	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	2.30	ug/kg
60-57-1	Dieldrin	0.19	U	0.19	2.30	ug/kg
72-55-9	4,4-DDE	0.30	J	0.19	2.30	ug/kg
72-20-8	Endrin	0.19	U	0.19	2.30	ug/kg
33213-65-9	Endosulfan II	0.39	U	0.39	2.30	ug/kg
72-54-8	4,4-DDD	0.20	U	0.20	2.30	ug/kg
1031-07-8	Endosulfan Sulfate	0.44	JP	0.17	2.30	ug/kg
50-29-3	4,4-DDT	0.47	J	0.19	2.30	ug/kg
72-43-5	Methoxychlor	0.49	U	0.49	2.30	ug/kg
53494-70-5	Endrin ketone	0.25	U	0.25	2.30	ug/kg
7421-93-4	Endrin aldehyde	0.49	U	0.49	2.30	ug/kg
5103-71-9	alpha-Chlordane	0.17	J	0.16	2.30	ug/kg
5103-74-2	gamma-Chlordane	0.20	U	0.20	2.30	ug/kg
8001-35-2	Toxaphene	7.20	U	7.20	43.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.88		20 - 144	44%	SPK: 20
877-09-8	Tetrachloro-m-xylene	10.5		19 - 148	53%	SPK: 20

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-2-3	SDG No.:	Q3310
Lab Sample ID:	Q3310-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	75.1
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL097606.D	1	10/10/25 09:06	10/10/25 15:19	PB170054

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

LAB CHRONICLE

OrderID:	Q3310	OrderDate:	10/8/2025 1:24:21 PM
Client:	Langan Engineering and Environmental Services, Inc	Project:	Con Edison Richmond Terrace
Contact:	Gregory DelMastro	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3310-01	SS-01-0-1	SOIL	Pesticide-TCL	8081B	10/07/25	10/10/25	10/10/25	10/08/25
Q3310-02	SS-01-1-2	SOIL	Pesticide-TCL	8081B	10/07/25	10/10/25	10/10/25	10/08/25
Q3310-03	SS-01-2-3	SOIL	Pesticide-TCL	8081B	10/07/25	10/10/25	10/10/25	10/08/25

Hit Summary Sheet
SW-846

SDG No.: Q3310

Order ID: Q3310

Client: Langan Engineering and Environmental Services.

Project ID: Con Edison Richmond Terrace

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SS-01-0-1								
Q3310-01	SS-01-0-1	SOIL	Aroclor-1260	69.9		4.90	26.0	ug/kg
			Total Concentration:	69.900				
Client ID : SS-01-1-2								
Q3310-02	SS-01-1-2	SOIL	Aroclor-1260	75.8	P	4.40	23.4	ug/kg
			Total Concentration:	75.800				
Client ID : SS-01-2-3								
Q3310-03	SS-01-2-3	SOIL	Aroclor-1260	24.5	P	4.30	22.6	ug/kg
			Total Concentration:	24.500				



SAMPLE DATA

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-0-1	SDG No.:	Q3310
Lab Sample ID:	Q3310-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	65.3
Sample Wt/Vol:	30.09 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Prep Date	10/10/25
		Test:	PCB

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	6.00	U	1	6.00	26.0	ug/kg	10/10/25 13:31	PB170053
11104-28-2	Aroclor-1221	6.20	U	1	6.20	26.0	ug/kg	10/10/25 13:31	PB170053
11141-16-5	Aroclor-1232	5.70	U	1	5.70	26.0	ug/kg	10/10/25 13:31	PB170053
53469-21-9	Aroclor-1242	6.10	U	1	6.10	26.0	ug/kg	10/10/25 13:31	PB170053
12672-29-6	Aroclor-1248	9.00	U	1	9.00	26.0	ug/kg	10/10/25 13:31	PB170053
11097-69-1	Aroclor-1254	4.90	U	1	4.90	26.0	ug/kg	10/10/25 13:31	PB170053
37324-23-5	Aroclor-1262	7.70	U	1	7.70	26.0	ug/kg	10/10/25 13:31	PB170053
11100-14-4	Aroclor-1268	5.50	U	1	5.50	26.0	ug/kg	10/10/25 13:31	PB170053
11096-82-5	Aroclor-1260	69.9		1	4.90	26.0	ug/kg	10/10/25 13:31	PB170053
SURROGATES									
877-09-8	Tetrachloro-m-xylene	20.9			32 - 144	105%	SPK: 20		
2051-24-3	Decachlorobiphenyl	15.1			32 - 175	76%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

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P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

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N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-1-2	SDG No.:	Q3310
Lab Sample ID:	Q3310-02	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	72.4
Sample Wt/Vol:	30.08 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Test:	PCB
	Prep Date		10/10/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	5.40	U	1	5.40	23.4	ug/kg	10/10/25 13:47	PB170053
11104-28-2	Aroclor-1221	5.60	U	1	5.60	23.4	ug/kg	10/10/25 13:47	PB170053
11141-16-5	Aroclor-1232	5.10	U	1	5.10	23.4	ug/kg	10/10/25 13:47	PB170053
53469-21-9	Aroclor-1242	5.50	U	1	5.50	23.4	ug/kg	10/10/25 13:47	PB170053
12672-29-6	Aroclor-1248	8.20	U	1	8.20	23.4	ug/kg	10/10/25 13:47	PB170053
11097-69-1	Aroclor-1254	4.40	U	1	4.40	23.4	ug/kg	10/10/25 13:47	PB170053
37324-23-5	Aroclor-1262	6.90	U	1	6.90	23.4	ug/kg	10/10/25 13:47	PB170053
11100-14-4	Aroclor-1268	5.00	U	1	5.00	23.4	ug/kg	10/10/25 13:47	PB170053
11096-82-5	Aroclor-1260	75.8	P	1	4.40	23.4	ug/kg	10/10/25 13:47	PB170053
SURROGATES									
877-09-8	Tetrachloro-m-xylene	18.0			32 - 144	90%	SPK: 20		
2051-24-3	Decachlorobiphenyl	15.8			32 - 175	79%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-2-3	SDG No.:	Q3310
Lab Sample ID:	Q3310-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	75.1
Sample Wt/Vol:	30.07 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Prep Date	10/10/25
		Test:	PCB

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	5.20	U	1	5.20	22.6	ug/kg	10/10/25 14:36	PB170053
11104-28-2	Aroclor-1221	5.40	U	1	5.40	22.6	ug/kg	10/10/25 14:36	PB170053
11141-16-5	Aroclor-1232	4.90	U	1	4.90	22.6	ug/kg	10/10/25 14:36	PB170053
53469-21-9	Aroclor-1242	5.30	U	1	5.30	22.6	ug/kg	10/10/25 14:36	PB170053
12672-29-6	Aroclor-1248	7.90	U	1	7.90	22.6	ug/kg	10/10/25 14:36	PB170053
11097-69-1	Aroclor-1254	4.30	U	1	4.30	22.6	ug/kg	10/10/25 14:36	PB170053
37324-23-5	Aroclor-1262	6.70	U	1	6.70	22.6	ug/kg	10/10/25 14:36	PB170053
11100-14-4	Aroclor-1268	4.80	U	1	4.80	22.6	ug/kg	10/10/25 14:36	PB170053
11096-82-5	Aroclor-1260	24.5	P	1	4.30	22.6	ug/kg	10/10/25 14:36	PB170053
SURROGATES									
877-09-8	Tetrachloro-m-xylene	18.9			32 - 144	95%	SPK: 20		
2051-24-3	Decachlorobiphenyl	14.9			32 - 175	74%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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() = Laboratory InHouse Limit

LAB CHRONICLE

OrderID:	Q3310	OrderDate:	10/8/2025 1:24:21 PM
Client:	Langan Engineering and Environmental Services, Inc	Project:	Con Edison Richmond Terrace
Contact:	Gregory DelMastro	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3310-01	SS-01-0-1	SOIL			10/07/25			10/08/25
			PCB	8082A		10/10/25	10/10/25	
Q3310-02	SS-01-1-2	SOIL			10/07/25			10/08/25
			PCB	8082A		10/10/25	10/10/25	
			Pesticide-TCL	8081B		10/10/25	10/10/25	
Q3310-03	SS-01-2-3	SOIL			10/07/25			10/08/25
			PCB	8082A		10/10/25	10/10/25	
			Pesticide-TCL	8081B		10/10/25	10/10/25	

Hit Summary Sheet SW-846

SDG No.: Q3310 **Order ID:** Q3310
Client: Langan Engineering and Environmental Services, Inc **Project ID:** Con Edison Richmond Terrace

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SS-01-0-1								
Q3310-01	SS-01-0-1	SOIL	Aluminum	6470		1.23	7.29	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Arsenic	27.1		0.28	1.46	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Barium	230		1.06	7.29	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Beryllium	0.85		0.036	0.44	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Cadmium	1.08		0.035	0.44	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Calcium	6340		16.2	146	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Chromium	51.4		0.069	0.73	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Cobalt	12.0		0.15	2.19	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Copper	108		0.32	1.46	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Iron	40000		5.82	7.29	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Lead	137		0.19	0.88	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Magnesium	8430		17.5	146	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Manganese	1140		0.20	1.46	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Mercury	3.05	D	0.10	0.18	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Nickel	147		0.19	2.92	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Potassium	1010		40.4	146	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Silver	1.15		0.18	0.73	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Sodium	3200		26.0	146	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Vanadium	483		0.37	2.92	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Zinc	392		0.34	2.92	mg/Kg
Client ID : SS-01-1-2								
Q3310-02	SS-01-1-2	SOIL	Aluminum	7490		0.99	5.90	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Arsenic	29.0		0.22	1.18	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Barium	205		0.86	5.90	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Beryllium	0.75		0.030	0.35	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Cadmium	0.77		0.028	0.35	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Calcium	6450		13.1	118	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Chromium	44.7		0.055	0.59	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Cobalt	13.8		0.12	1.77	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Copper	233		0.26	1.18	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Iron	22300		4.71	5.90	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Lead	221		0.15	0.71	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Magnesium	11700		14.2	118	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Manganese	578		0.17	1.18	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Mercury	2.26	D	0.051	0.091	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Nickel	279		0.15	2.36	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Potassium	1090		32.7	118	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q3310 **Order ID:** Q3310
Client: Langan Engineering and Environmental Services, Inc **Project ID:** Con Edison Richmond Terrace

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3310-02	SS-01-1-2	SOIL	Silver	0.54	J	0.14	0.59	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Sodium	3240		21.0	118	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Vanadium	644		0.30	2.36	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Zinc	573		0.27	2.36	mg/Kg
Client ID : SS-01-2-3								
Q3310-03	SS-01-2-3	SOIL	Aluminum	5350		0.93	5.53	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Antimony	5.27		0.24	2.76	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Arsenic	182		0.21	1.11	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Barium	116		0.81	5.53	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Beryllium	1.14		0.028	0.33	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Cadmium	1.18		0.027	0.33	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Calcium	3460		12.3	111	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Chromium	31.5		0.052	0.55	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Cobalt	9.34		0.11	1.66	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Copper	594		0.24	1.11	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Iron	54000		4.41	5.53	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Lead	657		0.14	0.66	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Magnesium	4340		13.3	111	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Manganese	1050		0.16	1.11	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Mercury	1.95	D	0.045	0.080	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Nickel	74.0		0.14	2.21	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Potassium	1210		30.6	111	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Silver	2.19	D	0.27	1.11	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Sodium	1540		19.7	111	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Vanadium	204		0.28	2.21	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Zinc	332		0.25	2.21	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-0-1	SDG No.:	Q3310
Lab Sample ID:	Q3310-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	65.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6470		1	1.23	7.29	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-36-0	Antimony	0.32	UN	1	0.32	3.65	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-38-2	Arsenic	27.1		1	0.28	1.46	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-39-3	Barium	230		1	1.06	7.29	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-41-7	Beryllium	0.85		1	0.036	0.44	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-43-9	Cadmium	1.08		1	0.035	0.44	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-70-2	Calcium	6340		1	16.2	146	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-47-3	Chromium	51.4		1	0.069	0.73	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-48-4	Cobalt	12.0		1	0.15	2.19	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-50-8	Copper	108	N	1	0.32	1.46	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-89-6	Iron	40000		1	5.82	7.29	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-92-1	Lead	137		1	0.19	0.88	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-95-4	Magnesium	8430		1	17.5	146	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-96-5	Manganese	1140		1	0.20	1.46	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-97-6	Mercury	3.05	DN	10	0.10	0.18	mg/Kg	10/09/25 11:40	10/09/25 15:29	7471B	
7440-02-0	Nickel	147		1	0.19	2.92	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-09-7	Potassium	1010	N	1	40.4	146	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7782-49-2	Selenium	0.38	U	1	0.38	1.46	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-22-4	Silver	1.15		1	0.18	0.73	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-23-5	Sodium	3200	N	1	26.0	146	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-28-0	Thallium	0.34	U	1	0.34	2.92	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-62-2	Vanadium	483		1	0.37	2.92	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-66-6	Zinc	392		1	0.34	2.92	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	No
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-1-2	SDG No.:	Q3310
Lab Sample ID:	Q3310-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	72.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7490		1	0.99	5.90	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-36-0	Antimony	0.26	UN	1	0.26	2.95	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-38-2	Arsenic	29.0		1	0.22	1.18	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-39-3	Barium	205		1	0.86	5.90	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-41-7	Beryllium	0.75		1	0.030	0.35	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-43-9	Cadmium	0.77		1	0.028	0.35	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-70-2	Calcium	6450		1	13.1	118	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-47-3	Chromium	44.7		1	0.055	0.59	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-48-4	Cobalt	13.8		1	0.12	1.77	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-50-8	Copper	233	N	1	0.26	1.18	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-89-6	Iron	22300		1	4.71	5.90	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-92-1	Lead	221		1	0.15	0.71	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-95-4	Magnesium	11700		1	14.2	118	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-96-5	Manganese	578		1	0.17	1.18	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-97-6	Mercury	2.26	DN	5	0.051	0.091	mg/Kg	10/09/25 11:40	10/09/25 15:35	7471B	
7440-02-0	Nickel	279		1	0.15	2.36	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-09-7	Potassium	1090	N	1	32.7	118	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7782-49-2	Selenium	0.31	U	1	0.31	1.18	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-22-4	Silver	0.54	J	1	0.14	0.59	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-23-5	Sodium	3240	N	1	21.0	118	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.36	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-62-2	Vanadium	644		1	0.30	2.36	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-66-6	Zinc	573		1	0.27	2.36	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	No
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-2-3	SDG No.:	Q3310
Lab Sample ID:	Q3310-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	75.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5350		1	0.93	5.53	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-36-0	Antimony	5.27	N	1	0.24	2.76	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-38-2	Arsenic	182		1	0.21	1.11	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-39-3	Barium	116		1	0.81	5.53	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-41-7	Beryllium	1.14		1	0.028	0.33	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-43-9	Cadmium	1.18		1	0.027	0.33	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-70-2	Calcium	3460		1	12.3	111	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-47-3	Chromium	31.5		1	0.052	0.55	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-48-4	Cobalt	9.34		1	0.11	1.66	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-50-8	Copper	594	N	1	0.24	1.11	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-89-6	Iron	54000		1	4.41	5.53	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-92-1	Lead	657		1	0.14	0.66	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-95-4	Magnesium	4340		1	13.3	111	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-96-5	Manganese	1050		1	0.16	1.11	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-97-6	Mercury	1.95	DN	5	0.045	0.080	mg/Kg	10/09/25 11:40	10/09/25 15:37	7471B	
7440-02-0	Nickel	74.0		1	0.14	2.21	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-09-7	Potassium	1210	N	1	30.6	111	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7782-49-2	Selenium	0.29	U	1	0.29	1.11	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-22-4	Silver	2.19	D	2	0.27	1.11	mg/Kg	10/10/25 10:10	10/10/25 16:57	6010D	SW3050
7440-23-5	Sodium	1540	N	1	19.7	111	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.21	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-62-2	Vanadium	204		1	0.28	2.21	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-66-6	Zinc	332		1	0.25	2.21	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	No
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

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OR = Over Range

N = Spiked sample recovery not within control limits

LAB CHRONICLE

OrderID:	Q3310	OrderDate:	10/8/2025 1:24:21 PM
Client:	Langan Engineering and Environmental Services, Inc	Project:	Con Edison Richmond Terrace
Contact:	Gregory DelMastro	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3310-01	SS-01-0-1	SOIL			10/07/25			10/08/25
			Mercury	7471B		10/09/25	10/09/25	
			Metals ICP-TAL	6010D		10/10/25	10/10/25	
Q3310-02	SS-01-1-2	SOIL			10/07/25			10/08/25
			Mercury	7471B		10/09/25	10/09/25	
			Metals ICP-TAL	6010D		10/10/25	10/10/25	
Q3310-03	SS-01-2-3	SOIL			10/07/25			10/08/25
			Mercury	7471B		10/09/25	10/09/25	
			Metals ICP-TAL	6010D		10/10/25	10/10/25	



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: LANGAN
ADDRESS: 1 North Broadway
CITY White Plains STATE: NY ZIP: 10601
ATTENTION: Gregory DelMastro
PHONE: 914-323-7414 FAX:

PROJECT NAME: Richmond Terrace - Site 163
PROJECT NO.: 190134901 LOCATION:
PROJECT MANAGER: Gregory DelMastro
e-mail: gdelmastro@langan.com
PHONE: FAX:

BILL TO: LANGAN PO#: 190134901
ADDRESS:
CITY SAME STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 31 DAYS*
EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1. VOCS (8210)
2. SOLVENTS (8210)
3. TAL Metals (600700)
4. PcBs (8082A)
5. Pesticides (80812)
6. Pesticides (80812)
7. Pesticides (80812)
8. Pesticides (80812)
9. Pesticides (80812)

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	<u>SS-01-0-1</u>	<u>S</u>		<u>X</u>	<u>10/7</u>	<u>15:05</u>	<u>6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
2.	<u>SS-01-1-2</u>	<u>S</u>		<u>X</u>	<u>10/7</u>	<u>15:20</u>	<u>6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
3.	<u>SS-01-2-3</u>	<u>S</u>		<u>X</u>	<u>10/7</u>	<u>16:00</u>	<u>6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP _____ °C
1. <u>[Signature]</u>	<u>10/7/25 20:00</u>	<u>[Signature]</u>	Comments: _____
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. <u>[Signature]</u>			
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	CLIENT: ☐ Hand Delivered ☐ Other
3. <u>[Signature]</u>	<u>10-8-25</u>	<u>[Signature]</u>	Shipment Complete ☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3310	LANG01	Order Date : 10/8/2025 1:24:21 PM	Project Mgr :
Client Name : Langan Engineering and En		Project Name : Con Edison Richmond Terr	Report Type : Results Only
Client Contact : Gregory DelMastro		Receive DateTime : 10/8/2025 12:00:00 AM	EDD Type : Excel NY
Invoice Name : Langan Engineering and En		Purchase Order : 16:30	Hard Copy Date :
Invoice Contact : Gregory DelMastro			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3310-01	SS-01-0-1	Solid	10/07/2025	15:05					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3310-02	SS-01-1-2	Solid	10/07/2025	15:20					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3310-03	SS-01-2-3	Solid	10/07/2025	16:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By :

Date / Time : 10/9/25 11:50

Received By :

Date / Time : 10/09/25

Storage Area : VOA Refridgerator Room