

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

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SDG No.: Q3310
Matrix: SOIL
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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

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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