

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

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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	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

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Lab Sample ID:	Q3310-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	75.1
Sample Wt/Vol:	30.05 g	Final Vol:	1000 uL
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	Level : LOW		
	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