

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: PB170067BL
Lab Sample ID: PB170067BL
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.02 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/13/25

Date Collected:
Date Received:
SDG No.: Q3323
Matrix: SOIL
% Solid: 100
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	160	U	1	160	330	ug/Kg	10/14/25 14:25	PB170067
108-95-2	Phenol	22.1	U	1	22.1	170	ug/Kg	10/14/25 14:25	PB170067
111-44-4	bis(2-Chloroethyl)ether	24.3	U	1	24.3	170	ug/Kg	10/14/25 14:25	PB170067
95-57-8	2-Chlorophenol	24.4	U	1	24.4	170	ug/Kg	10/14/25 14:25	PB170067
95-48-7	2-Methylphenol	29.9	U	1	29.9	170	ug/Kg	10/14/25 14:25	PB170067
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	1	37.5	170	ug/Kg	10/14/25 14:25	PB170067
98-86-2	Acetophenone	29.5	U	1	29.5	170	ug/Kg	10/14/25 14:25	PB170067
65794-96-9	3+4-Methylphenols	41.1	U	1	41.1	330	ug/Kg	10/14/25 14:25	PB170067
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	1	47.4	79.9	ug/Kg	10/14/25 14:25	PB170067
67-72-1	Hexachloroethane	17.6	U	1	17.6	170	ug/Kg	10/14/25 14:25	PB170067
98-95-3	Nitrobenzene	18.3	U	1	18.3	170	ug/Kg	10/14/25 14:25	PB170067
78-59-1	Isophorone	32.8	U	1	32.8	170	ug/Kg	10/14/25 14:25	PB170067
88-75-5	2-Nitrophenol	58.2	U	1	58.2	170	ug/Kg	10/14/25 14:25	PB170067
105-67-9	2,4-Dimethylphenol	64.8	U	1	64.8	170	ug/Kg	10/14/25 14:25	PB170067
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	1	30.8	170	ug/Kg	10/14/25 14:25	PB170067
120-83-2	2,4-Dichlorophenol	28.3	U	1	28.3	170	ug/Kg	10/14/25 14:25	PB170067
91-20-3	Naphthalene	22.7	U	1	22.7	170	ug/Kg	10/14/25 14:25	PB170067
106-47-8	4-Chloroaniline	35.4	U	1	35.4	170	ug/Kg	10/14/25 14:25	PB170067
87-68-3	Hexachlorobutadiene	25.3	U	1	25.3	170	ug/Kg	10/14/25 14:25	PB170067
105-60-2	Caprolactam	52.1	U	1	52.1	330	ug/Kg	10/14/25 14:25	PB170067
59-50-7	4-Chloro-3-methylphenol	28.7	U	1	28.7	170	ug/Kg	10/14/25 14:25	PB170067
91-57-6	2-Methylnaphthalene	25.6	U	1	25.6	170	ug/Kg	10/14/25 14:25	PB170067
77-47-4	Hexachlorocyclopentadiene	120	U	1	120	330	ug/Kg	10/14/25 14:25	PB170067
88-06-2	2,4,6-Trichlorophenol	19.8	U	1	19.8	170	ug/Kg	10/14/25 14:25	PB170067
95-95-4	2,4,5-Trichlorophenol	29.1	U	1	29.1	170	ug/Kg	10/14/25 14:25	PB170067
92-52-4	1,1-Biphenyl	21.8	U	1	21.8	170	ug/Kg	10/14/25 14:25	PB170067
91-58-7	2-Chloronaphthalene	22.5	U	1	22.5	170	ug/Kg	10/14/25 14:25	PB170067
88-74-4	2-Nitroaniline	48.1	U	1	48.1	170	ug/Kg	10/14/25 14:25	PB170067
131-11-3	Dimethylphthalate	27.1	U	1	27.1	170	ug/Kg	10/14/25 14:25	PB170067
208-96-8	Acenaphthylene	28.9	U	1	28.9	170	ug/Kg	10/14/25 14:25	PB170067
606-20-2	2,6-Dinitrotoluene	33.6	U	1	33.6	170	ug/Kg	10/14/25 14:25	PB170067
99-09-2	3-Nitroaniline	46.0	U	1	46.0	170	ug/Kg	10/14/25 14:25	PB170067
83-32-9	Acenaphthene	21.3	U	1	21.3	170	ug/Kg	10/14/25 14:25	PB170067
51-28-5	2,4-Dinitrophenol	230	U	1	230	330	ug/Kg	10/14/25 14:25	PB170067
100-02-7	4-Nitrophenol	110	U	1	110	330	ug/Kg	10/14/25 14:25	PB170067
132-64-9	Dibenzofuran	22.7	U	1	22.7	170	ug/Kg	10/14/25 14:25	PB170067
121-14-2	2,4-Dinitrotoluene	50.1	U	1	50.1	170	ug/Kg	10/14/25 14:25	PB170067
84-66-2	Diethylphthalate	28.3	U	1	28.3	170	ug/Kg	10/14/25 14:25	PB170067
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	1	26.7	170	ug/Kg	10/14/25 14:25	PB170067
86-73-7	Fluorene	25.3	U	1	25.3	170	ug/Kg	10/14/25 14:25	PB170067
100-01-6	4-Nitroaniline	64.2	U	1	64.2	170	ug/Kg	10/14/25 14:25	PB170067
534-52-1	4,6-Dinitro-2-methylphenol	100	U	1	100	330	ug/Kg	10/14/25 14:25	PB170067

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SDG No.: Q3323
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% Solid: 100
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	32.9	U	1	32.9	170	ug/Kg	10/14/25 14:25	PB170067
101-55-3	4-Bromophenyl-phenylether	27.8	U	1	27.8	170	ug/Kg	10/14/25 14:25	PB170067
118-74-1	Hexachlorobenzene	25.3	U	1	25.3	170	ug/Kg	10/14/25 14:25	PB170067
1912-24-9	Atrazine	34.0	U	1	34.0	170	ug/Kg	10/14/25 14:25	PB170067
87-86-5	Pentachlorophenol	51.3	U	1	51.3	330	ug/Kg	10/14/25 14:25	PB170067
85-01-8	Phenanthrene	20.9	U	1	20.9	170	ug/Kg	10/14/25 14:25	PB170067
120-12-7	Anthracene	33.3	U	1	33.3	170	ug/Kg	10/14/25 14:25	PB170067
86-74-8	Carbazole	31.2	U	1	31.2	170	ug/Kg	10/14/25 14:25	PB170067
84-74-2	Di-n-butylphthalate	47.9	U	1	47.9	170	ug/Kg	10/14/25 14:25	PB170067
206-44-0	Fluoranthene	30.0	U	1	30.0	170	ug/Kg	10/14/25 14:25	PB170067
129-00-0	Pyrene	36.0	U	1	36.0	170	ug/Kg	10/14/25 14:25	PB170067
85-68-7	Butylbenzylphthalate	71.4	U	1	71.4	170	ug/Kg	10/14/25 14:25	PB170067
91-94-1	3,3-Dichlorobenzidine	36.7	U	1	36.7	330	ug/Kg	10/14/25 14:25	PB170067
56-55-3	Benzo(a)anthracene	23.0	U	1	23.0	170	ug/Kg	10/14/25 14:25	PB170067
218-01-9	Chrysene	19.9	U	1	19.9	170	ug/Kg	10/14/25 14:25	PB170067
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	1	59.2	170	ug/Kg	10/14/25 14:25	PB170067
117-84-0	Di-n-octyl phthalate	86.7	U	1	86.7	330	ug/Kg	10/14/25 14:25	PB170067
205-99-2	Benzo(b)fluoranthene	19.0	U	1	19.0	170	ug/Kg	10/14/25 14:25	PB170067
207-08-9	Benzo(k)fluoranthene	22.4	U	1	22.4	170	ug/Kg	10/14/25 14:25	PB170067
50-32-8	Benzo(a)pyrene	29.5	U	1	29.5	170	ug/Kg	10/14/25 14:25	PB170067
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	1	29.1	170	ug/Kg	10/14/25 14:25	PB170067
53-70-3	Dibenzo(a,h)anthracene	27.4	U	1	27.4	170	ug/Kg	10/14/25 14:25	PB170067
191-24-2	Benzo(g,h,i)perylene	25.7	U	1	25.7	170	ug/Kg	10/14/25 14:25	PB170067
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	1	25.6	170	ug/Kg	10/14/25 14:25	PB170067
123-91-1	1,4-Dioxane	45.2	U	1	45.2	170	ug/Kg	10/14/25 14:25	PB170067
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	1	27.4	170	ug/Kg	10/14/25 14:25	PB170067

SURROGATES

367-12-4	2-Fluorophenol	131		18 - 112	88%	SPK: 150
13127-88-3	Phenol-d6	133		15 - 107	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.1		18 - 107	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.4		20 - 109	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		10 - 116	96%	SPK: 150
1718-51-0	Terphenyl-d14	95.8		10 - 105	96%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	124000
1146-65-2	Naphthalene-d8	501000
15067-26-2	Acenaphthene-d10	274000
1517-22-2	Phenanthrene-d10	484000
1719-03-5	Chrysene-d12	306000
1520-96-3	Perylene-d12	259000

TENTATIVE IDENTIFIED COMPOUNDS

006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	270	J	17.3	ug/Kg
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Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level : LOW		
	Final Vol: 1000 uL		
	Prep Date: 10/13/25		

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