

Report of Analysis

Client:	PSEG	Date Collected:	03/20/25
Project:	Aldene Switching Station	Date Received:	03/20/25
Client Sample ID:	RBR200030	SDG No.:	Q1611
Lab Sample ID:	Q1611-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.8
Sample Wt/Vol:	50.04	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	1.0	GPC Cleanup : N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142036.D	2	03/21/25 08:10	03/21/25 18:20	PB167254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.20	U	0.20	0.43	mg/Kg
108-95-2	Phenol	0.029	U	0.029	0.22	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.032	U	0.032	0.22	mg/Kg
95-57-8	2-Chlorophenol	0.032	U	0.032	0.22	mg/Kg
95-48-7	2-Methylphenol	0.039	U	0.039	0.22	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.049	U	0.049	0.22	mg/Kg
98-86-2	Acetophenone	0.039	U	0.039	0.22	mg/Kg
65794-96-9	3+4-Methylphenols	0.054	U	0.054	0.43	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.062	U	0.062	0.10	mg/Kg
67-72-1	Hexachloroethane	0.023	U	0.023	0.22	mg/Kg
98-95-3	Nitrobenzene	0.024	U	0.024	0.22	mg/Kg
78-59-1	Isophorone	0.043	U	0.043	0.22	mg/Kg
88-75-5	2-Nitrophenol	0.076	U	0.076	0.22	mg/Kg
105-67-9	2,4-Dimethylphenol	0.085	U	0.085	0.22	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.040	U	0.040	0.22	mg/Kg
120-83-2	2,4-Dichlorophenol	0.037	U	0.037	0.22	mg/Kg
91-20-3	Naphthalene	0.030	U	0.030	0.22	mg/Kg
106-47-8	4-Chloroaniline	0.046	U	0.046	0.22	mg/Kg
87-68-3	Hexachlorobutadiene	0.033	U	0.033	0.22	mg/Kg
105-60-2	Caprolactam	0.068	U	0.068	0.43	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.038	U	0.038	0.22	mg/Kg
91-57-6	2-Methylnaphthalene	0.033	U	0.033	0.22	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.15	U	0.15	0.43	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.026	U	0.026	0.22	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.038	U	0.038	0.22	mg/Kg
92-52-4	1,1-Biphenyl	0.029	U	0.029	0.22	mg/Kg
91-58-7	2-Chloronaphthalene	0.029	U	0.029	0.22	mg/Kg
88-74-4	2-Nitroaniline	0.063	U	0.063	0.22	mg/Kg
131-11-3	Dimethylphthalate	0.035	U	0.035	0.22	mg/Kg

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208-96-8	Acenaphthylene	0.038	U	0.038	0.22	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.044	U	0.044	0.22	mg/Kg
99-09-2	3-Nitroaniline	0.060	U	0.060	0.22	mg/Kg
83-32-9	Acenaphthene	0.028	U	0.028	0.22	mg/Kg
51-28-5	2,4-Dinitrophenol	0.30	U	0.30	0.43	mg/Kg
100-02-7	4-Nitrophenol	0.14	U	0.14	0.43	mg/Kg
132-64-9	Dibenzofuran	0.030	U	0.030	0.22	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.065	U	0.065	0.22	mg/Kg
84-66-2	Diethylphthalate	0.037	U	0.037	0.22	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.035	U	0.035	0.22	mg/Kg
86-73-7	Fluorene	0.033	U	0.033	0.22	mg/Kg
100-01-6	4-Nitroaniline	0.084	U	0.084	0.22	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.13	U	0.13	0.43	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.043	U	0.043	0.22	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.036	U	0.036	0.22	mg/Kg
118-74-1	Hexachlorobenzene	0.033	U	0.033	0.22	mg/Kg
1912-24-9	Atrazine	0.044	U	0.044	0.22	mg/Kg
87-86-5	Pentachlorophenol	0.067	U	0.067	0.43	mg/Kg
85-01-8	Phenanthrene	0.027	U	0.027	0.22	mg/Kg
120-12-7	Anthracene	0.044	U	0.044	0.22	mg/Kg
86-74-8	Carbazole	0.041	U	0.041	0.22	mg/Kg
84-74-2	Di-n-butylphthalate	0.063	U	0.063	0.22	mg/Kg
206-44-0	Fluoranthene	0.039	U	0.039	0.22	mg/Kg
129-00-0	Pyrene	0.047	U	0.047	0.22	mg/Kg
85-68-7	Butylbenzylphthalate	0.093	U	0.093	0.22	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.048	U	0.048	0.43	mg/Kg
56-55-3	Benzo(a)anthracene	0.030	U	0.030	0.22	mg/Kg
218-01-9	Chrysene	0.026	U	0.026	0.22	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.077	U	0.077	0.22	mg/Kg
117-84-0	Di-n-octyl phthalate	0.11	U	0.11	0.43	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.13	J	0.025	0.22	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.029	U	0.029	0.22	mg/Kg
50-32-8	Benzo(a)pyrene	0.095	J	0.039	0.22	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.038	U	0.038	0.22	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.036	U	0.036	0.22	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.034	U	0.034	0.22	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	0.033	0.22	mg/Kg
123-91-1	1,4-Dioxane	0.059	U	0.059	0.22	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	0.036	0.22	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	82.2		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	75.5		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.4		18 - 107	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.7		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.4		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	47.3		10 - 105	47%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	139000	6.875	
1146-65-2	Naphthalene-d8	495000	8.157	
15067-26-2	Acenaphthene-d10	214000	9.91	
1517-22-2	Phenanthrene-d10	322000	11.392	
1719-03-5	Chrysene-d12	311000	14.033	
1520-96-3	Perylene-d12	252000	15.509	

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	630	J		2.13	ug/Kg
000141-79-7	3-Penten-2-one, 4-methyl-	130	A		4.47	ug/Kg
000119-61-9	Benzophenone	95.8	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	350	J		11.9	ug/Kg
000886-66-8	Benzene, 1,1-(1,3-butadiyne-1,4-diyl) 170		J		12.6	ug/Kg
000057-11-4	Octadecanoic acid	290	J		12.7	ug/Kg

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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