

Report of Analysis

Client:	PSEG	Date Collected:	06/27/25
Project:	Deans Switching Station	Date Received:	06/27/25
Client Sample ID:	500-3B	SDG No.:	Q2442
Lab Sample ID:	Q2442-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	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
BF142926.D	1	06/30/25 09:20	06/30/25 20:45	PB168657

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.094	U	0.094	0.20	mg/Kg
108-95-2	Phenol	0.013	U	0.013	0.10	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.015	U	0.015	0.10	mg/Kg
95-57-8	2-Chlorophenol	0.015	U	0.015	0.10	mg/Kg
95-48-7	2-Methylphenol	0.018	U	0.018	0.10	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.023	U	0.023	0.10	mg/Kg
98-86-2	Acetophenone	0.018	U	0.018	0.10	mg/Kg
65794-96-9	3+4-Methylphenols	0.025	U	0.025	0.20	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.028	U	0.028	0.048	mg/Kg
67-72-1	Hexachloroethane	0.011	U	0.011	0.10	mg/Kg
98-95-3	Nitrobenzene	0.011	U	0.011	0.10	mg/Kg
78-59-1	Isophorone	0.020	U	0.020	0.10	mg/Kg
88-75-5	2-Nitrophenol	0.035	U	0.035	0.10	mg/Kg
105-67-9	2,4-Dimethylphenol	0.039	U	0.039	0.10	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.019	U	0.019	0.10	mg/Kg
120-83-2	2,4-Dichlorophenol	0.017	U	0.017	0.10	mg/Kg
91-20-3	Naphthalene	0.014	U	0.014	0.10	mg/Kg
106-47-8	4-Chloroaniline	0.021	U	0.021	0.10	mg/Kg
87-68-3	Hexachlorobutadiene	0.015	U	0.015	0.10	mg/Kg
105-60-2	Caprolactam	0.031	U	0.031	0.20	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.017	U	0.017	0.10	mg/Kg
91-57-6	2-Methylnaphthalene	0.015	U	0.015	0.10	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.070	U	0.070	0.20	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.012	U	0.012	0.10	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.017	U	0.017	0.10	mg/Kg
92-52-4	1,1-Biphenyl	0.013	U	0.013	0.10	mg/Kg
91-58-7	2-Chloronaphthalene	0.014	U	0.014	0.10	mg/Kg
88-74-4	2-Nitroaniline	0.029	U	0.029	0.10	mg/Kg
131-11-3	Dimethylphthalate	0.016	U	0.016	0.10	mg/Kg

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208-96-8	Acenaphthylene	0.017	U	0.017	0.10	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.020	U	0.020	0.10	mg/Kg
99-09-2	3-Nitroaniline	0.028	U	0.028	0.10	mg/Kg
83-32-9	Acenaphthene	0.013	U	0.013	0.10	mg/Kg
51-28-5	2,4-Dinitrophenol	0.14	U	0.14	0.20	mg/Kg
100-02-7	4-Nitrophenol	0.064	U	0.064	0.20	mg/Kg
132-64-9	Dibenzofuran	0.014	U	0.014	0.10	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.030	U	0.030	0.10	mg/Kg
84-66-2	Diethylphthalate	0.017	U	0.017	0.10	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.016	U	0.016	0.10	mg/Kg
86-73-7	Fluorene	0.015	U	0.015	0.10	mg/Kg
100-01-6	4-Nitroaniline	0.039	U	0.039	0.10	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.062	U	0.062	0.20	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.020	U	0.020	0.10	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.017	U	0.017	0.10	mg/Kg
118-74-1	Hexachlorobenzene	0.015	U	0.015	0.10	mg/Kg
1912-24-9	Atrazine	0.020	U	0.020	0.10	mg/Kg
87-86-5	Pentachlorophenol	0.031	U	0.031	0.20	mg/Kg
85-01-8	Phenanthrene	0.013	U	0.013	0.10	mg/Kg
120-12-7	Anthracene	0.020	U	0.020	0.10	mg/Kg
86-74-8	Carbazole	0.019	U	0.019	0.10	mg/Kg
84-74-2	Di-n-butylphthalate	0.029	U	0.029	0.10	mg/Kg
206-44-0	Fluoranthene	0.018	U	0.018	0.10	mg/Kg
129-00-0	Pyrene	0.022	U	0.022	0.10	mg/Kg
85-68-7	Butylbenzylphthalate	0.043	U	0.043	0.10	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.022	U	0.022	0.20	mg/Kg
56-55-3	Benzo(a)anthracene	0.014	U	0.014	0.10	mg/Kg
218-01-9	Chrysene	0.012	U	0.012	0.10	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.036	U	0.036	0.10	mg/Kg
117-84-0	Di-n-octyl phthalate	0.052	U	0.052	0.20	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.011	U	0.011	0.10	mg/Kg

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50-32-8	Benzo(a)pyrene	0.018	U	0.018	0.10	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.10	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.016	U	0.016	0.10	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.015	U	0.015	0.10	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.015	U	0.015	0.10	mg/Kg
123-91-1	1,4-Dioxane	0.027	U	0.027	0.10	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.016	U	0.016	0.10	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	67.5		18 - 112	45%	SPK: 150
13127-88-3	Phenol-d6	68.9		15 - 107	46%	SPK: 150
4165-60-0	Nitrobenzene-d5	42.8		18 - 107	43%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.4		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	62.5		10 - 116	42%	SPK: 150
1718-51-0	Terphenyl-d14	38.7		10 - 105	39%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	59000	6.869
1146-65-2	Naphthalene-d8	220000	8.157
15067-26-2	Acenaphthene-d10	108000	9.91
1517-22-2	Phenanthrene-d10	153000	11.404
1719-03-5	Chrysene-d12	105000	14.045
1520-96-3	Perylene-d12	133000	15.539

TENTATIVE IDENTIFIED COMPOUNDS

002916-31-6	1,3-Dioxolane, 2,2-dimethyl-	230	J	2.33	ug/Kg
	unknown2.457	110	J	2.46	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	99.5	A	5.08	ug/Kg
018835-33-1	1-Hexacosene	200	J	13.9	ug/Kg
006422-86-2	1,4-Benzenedicarboxylic acid, bis(	320	J	14.7	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