

Report of Analysis

Client:	PSEG	Date Collected:	08/22/25
Project:	Branchburg Switch	Date Received:	08/22/25
Client Sample ID:	367	SDG No.:	Q2949
Lab Sample ID:	Q2949-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	99.3
Sample Wt/Vol:	50.07	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
BP025573.D	1	08/25/25 08:55	08/25/25 20:33	PB169370

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	0.029	U	0.029	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	0.018	U	0.018	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	0.065	U	0.065	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	0.021	U	0.021	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	0.16		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	0.42		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	0.012	U	0.012	0.10	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.014	U	0.014	0.10	mg/Kg
50-32-8	Benzo(a)pyrene	0.018	U	0.018	0.10	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	U	0.018	0.10	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.017	U	0.017	0.10	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.016	U	0.016	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	0.017	U	0.017	0.10	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	74.2		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	75.4		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.0		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.2		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.4		10 - 116	56%	SPK: 150
1718-51-0	Terphenyl-d14	48.1		10 - 105	48%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	186000	7.778
1146-65-2	Naphthalene-d8	729000	10.548
15067-26-2	Acenaphthene-d10	477000	14.389
1517-22-2	Phenanthrene-d10	1010000	17.177
1719-03-5	Chrysene-d12	1130000	21.618
1520-96-3	Perylene-d12	1290000	24.983

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	450	J	3.03	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	190	A	4.94	ug/Kg
000119-61-9	Benzophenone	140	J	15.8	ug/Kg
000629-94-7	Heneicosane	59.3	J	16.1	ug/Kg
010030-73-6	(E)-Hexadec-9-enoic acid	59.7	J	18.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	410	J	18.1	ug/Kg
000057-11-4	Octadecanoic acid	82.9	J	19.4	ug/Kg

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077899-03-7	1-Heneicosyl formate	160	J		21.3	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