

Report of Analysis

Client:	PSEG	Date Collected:	08/05/25
Project:	Bridgewater Switch	Date Received:	08/05/25
Client Sample ID:	R5	SDG No.:	Q2774
Lab Sample ID:	Q2774-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.5
Sample Wt/Vol:	50.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143333.D	1	08/06/25 08:54	08/06/25 16:43	PB169138

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.27	U	0.13	0.27	mg/Kg
108-95-2	Phenol	0.14	U	0.018	0.14	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.14	U	0.020	0.14	mg/Kg
95-57-8	2-Chlorophenol	0.14	U	0.020	0.14	mg/Kg
95-48-7	2-Methylphenol	0.14	U	0.024	0.14	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.14	U	0.030	0.14	mg/Kg
98-86-2	Acetophenone	0.14	U	0.024	0.14	mg/Kg
65794-96-9	3+4-Methylphenols	0.27	U	0.033	0.27	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.064	U	0.038	0.064	mg/Kg
67-72-1	Hexachloroethane	0.14	U	0.014	0.14	mg/Kg
98-95-3	Nitrobenzene	0.14	U	0.015	0.14	mg/Kg
78-59-1	Isophorone	0.14	U	0.026	0.14	mg/Kg
88-75-5	2-Nitrophenol	0.14	U	0.047	0.14	mg/Kg
105-67-9	2,4-Dimethylphenol	0.14	U	0.052	0.14	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.14	U	0.025	0.14	mg/Kg
120-83-2	2,4-Dichlorophenol	0.14	U	0.023	0.14	mg/Kg
91-20-3	Naphthalene	0.14	U	0.018	0.14	mg/Kg
106-47-8	4-Chloroaniline	0.14	U	0.029	0.14	mg/Kg
87-68-3	Hexachlorobutadiene	0.14	U	0.020	0.14	mg/Kg
105-60-2	Caprolactam	0.27	U	0.042	0.27	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.14	U	0.023	0.14	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.021	0.14	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.27	U	0.093	0.27	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.14	U	0.016	0.14	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.14	U	0.023	0.14	mg/Kg
92-52-4	1,1-Biphenyl	0.14	U	0.018	0.14	mg/Kg
91-58-7	2-Chloronaphthalene	0.14	U	0.018	0.14	mg/Kg
88-74-4	2-Nitroaniline	0.14	U	0.039	0.14	mg/Kg
131-11-3	Dimethylphthalate	0.14	U	0.022	0.14	mg/Kg

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Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Final Vol:	1000 uL
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

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208-96-8	Acenaphthylene	0.081	J	0.023	0.14	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.14	U	0.027	0.14	mg/Kg
99-09-2	3-Nitroaniline	0.14	U	0.037	0.14	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.017	0.14	mg/Kg
51-28-5	2,4-Dinitrophenol	0.27	U	0.18	0.27	mg/Kg
100-02-7	4-Nitrophenol	0.27	U	0.086	0.27	mg/Kg
132-64-9	Dibenzofuran	0.14	U	0.018	0.14	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.14	U	0.040	0.14	mg/Kg
84-66-2	Diethylphthalate	0.14	U	0.023	0.14	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.14	U	0.022	0.14	mg/Kg
86-73-7	Fluorene	0.067	J	0.020	0.14	mg/Kg
100-01-6	4-Nitroaniline	0.14	U	0.052	0.14	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.27	U	0.083	0.27	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.14	U	0.027	0.14	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.14	U	0.022	0.14	mg/Kg
118-74-1	Hexachlorobenzene	0.14	U	0.020	0.14	mg/Kg
1912-24-9	Atrazine	0.14	U	0.027	0.14	mg/Kg
87-86-5	Pentachlorophenol	0.27	U	0.041	0.27	mg/Kg
85-01-8	Phenanthrene	1.10		0.017	0.14	mg/Kg
120-12-7	Anthracene	0.17		0.027	0.14	mg/Kg
86-74-8	Carbazole	0.15		0.025	0.14	mg/Kg
84-74-2	Di-n-butylphthalate	0.14	U	0.039	0.14	mg/Kg
206-44-0	Fluoranthene	3.60	E	0.024	0.14	mg/Kg
129-00-0	Pyrene	2.00		0.029	0.14	mg/Kg
85-68-7	Butylbenzylphthalate	0.14	U	0.058	0.14	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.27	U	0.030	0.27	mg/Kg
56-55-3	Benzo(a)anthracene	1.10		0.019	0.14	mg/Kg
218-01-9	Chrysene	1.30		0.016	0.14	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.14	U	0.048	0.14	mg/Kg
117-84-0	Di-n-octyl phthalate	0.27	U	0.070	0.27	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.90		0.015	0.14	mg/Kg

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Injection Volume :		GPC Factor :	1.0
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207-08-9	Benzo(k)fluoranthene	0.91		0.018	0.14	mg/Kg
50-32-8	Benzo(a)pyrene	1.30		0.024	0.14	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.62		0.023	0.14	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.16		0.022	0.14	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.87		0.021	0.14	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.14	U	0.021	0.14	mg/Kg
123-91-1	1,4-Dioxane	0.14	U	0.036	0.14	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.14	U	0.022	0.14	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	79.5		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	72.7		15 - 107	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.1		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.9		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	98.6		10 - 116	66%	SPK: 150
1718-51-0	Terphenyl-d14	38.9		10 - 105	39%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	68700	6.963
1146-65-2	Naphthalene-d8	236000	8.24
15067-26-2	Acenaphthene-d10	105000	9.998
1517-22-2	Phenanthrene-d10	174000	11.486
1719-03-5	Chrysene-d12	183000	14.133
1520-96-3	Perylene-d12	143000	15.645

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	960	J	2.31	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	A	5.19	ug/Kg
006628-97-3	2-Anilino-1,4-naphthoquinone	360	J	11.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	1100	J	12.0	ug/Kg
000057-11-4	Octadecanoic acid	210	J	12.8	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	190	J	13.3	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	72.7	J	13.8	ug/Kg

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	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	1.0	GPC Cleanup : N PH :
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000082-05-3	7H-Benz[de]anthracen-7-one	120	J		14.0	ug/Kg
	unknown14.604	110	J		14.6	ug/Kg
002400-66-0	Eicosanal-	410	J		15.1	ug/Kg
015594-90-8	1-Heneicosanol	760	J		15.3	ug/Kg
000207-93-2	Dinaphtho[1,2-b:1,2-d]furan	95.0	J		15.4	ug/Kg
000192-97-2	Benzo[e]pyrene	900	J		15.5	ug/Kg
000638-66-4	Octadecanal	330	J		15.9	ug/Kg
006418-44-6	Heptadecane, 3-methyl-	370	J		16.1	ug/Kg
002004-39-9	1-Heptacosanol	140	J		16.2	ug/Kg
067860-04-2	Oxirane, heptadecyl-	290	J		17.0	ug/Kg
000215-58-7	Benzo[b]triphenylene	260	J		17.4	ug/Kg
000083-47-6	.gamma.-Sitosterol	520	J		17.8	ug/Kg
001058-61-3	Stigmast-4-en-3-one	280	J		18.9	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