

Report of Analysis

Client:	PSEG	Date Collected:	09/10/25
Project:	Lawrenceville HQ	Date Received:	09/10/25
Client Sample ID:	LAW-25-0137	SDG No.:	Q3077
Lab Sample ID:	Q3077-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	5.02 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
BF143742.D	1	09/11/25 09:25	09/12/25 19:36	PB169649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	2.00	U	0.93	2.00	mg/Kg
108-95-2	Phenol	1.00	U	0.13	1.00	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	1.00	U	0.15	1.00	mg/Kg
95-57-8	2-Chlorophenol	1.00	U	0.15	1.00	mg/Kg
95-48-7	2-Methylphenol	1.00	U	0.18	1.00	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1.00	U	0.22	1.00	mg/Kg
98-86-2	Acetophenone	1.00	U	0.18	1.00	mg/Kg
65794-96-9	3+4-Methylphenols	2.00	U	0.25	2.00	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.48	U	0.28	0.48	mg/Kg
67-72-1	Hexachloroethane	1.00	U	0.11	1.00	mg/Kg
98-95-3	Nitrobenzene	1.00	U	0.11	1.00	mg/Kg
78-59-1	Isophorone	1.00	U	0.20	1.00	mg/Kg
88-75-5	2-Nitrophenol	1.00	U	0.35	1.00	mg/Kg
105-67-9	2,4-Dimethylphenol	1.00	U	0.39	1.00	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	0.18	1.00	mg/Kg
120-83-2	2,4-Dichlorophenol	1.00	U	0.17	1.00	mg/Kg
91-20-3	Naphthalene	1.00	U	0.14	1.00	mg/Kg
106-47-8	4-Chloroaniline	1.00	U	0.21	1.00	mg/Kg
87-68-3	Hexachlorobutadiene	1.00	U	0.15	1.00	mg/Kg
105-60-2	Caprolactam	2.00	U	0.31	2.00	mg/Kg
59-50-7	4-Chloro-3-methylphenol	1.00	U	0.17	1.00	mg/Kg
91-57-6	2-Methylnaphthalene	1.00	U	0.15	1.00	mg/Kg
77-47-4	Hexachlorocyclopentadiene	2.00	U	0.69	2.00	mg/Kg
88-06-2	2,4,6-Trichlorophenol	1.00	U	0.12	1.00	mg/Kg
95-95-4	2,4,5-Trichlorophenol	1.00	U	0.17	1.00	mg/Kg
92-52-4	1,1-Biphenyl	1.00	U	0.13	1.00	mg/Kg
91-58-7	2-Chloronaphthalene	1.00	U	0.13	1.00	mg/Kg
88-74-4	2-Nitroaniline	1.00	U	0.29	1.00	mg/Kg
131-11-3	Dimethylphthalate	1.00	U	0.16	1.00	mg/Kg

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208-96-8	Acenaphthylene	1.00	U	0.17	1.00	mg/Kg
606-20-2	2,6-Dinitrotoluene	1.00	U	0.20	1.00	mg/Kg
99-09-2	3-Nitroaniline	1.00	U	0.27	1.00	mg/Kg
83-32-9	Acenaphthene	1.00	U	0.13	1.00	mg/Kg
51-28-5	2,4-Dinitrophenol	2.00	U	1.40	2.00	mg/Kg
100-02-7	4-Nitrophenol	2.00	U	0.64	2.00	mg/Kg
132-64-9	Dibenzofuran	1.00	U	0.14	1.00	mg/Kg
121-14-2	2,4-Dinitrotoluene	1.00	U	0.30	1.00	mg/Kg
84-66-2	Diethylphthalate	1.00	U	0.17	1.00	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	0.16	1.00	mg/Kg
86-73-7	Fluorene	1.00	U	0.15	1.00	mg/Kg
100-01-6	4-Nitroaniline	1.00	U	0.38	1.00	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2.00	U	0.62	2.00	mg/Kg
86-30-6	n-Nitrosodiphenylamine	1.00	U	0.20	1.00	mg/Kg
101-55-3	4-Bromophenyl-phenylether	1.00	U	0.17	1.00	mg/Kg
118-74-1	Hexachlorobenzene	1.00	U	0.15	1.00	mg/Kg
1912-24-9	Atrazine	1.00	U	0.20	1.00	mg/Kg
87-86-5	Pentachlorophenol	2.00	U	0.31	2.00	mg/Kg
85-01-8	Phenanthrene	1.00	U	0.12	1.00	mg/Kg
120-12-7	Anthracene	1.00	U	0.20	1.00	mg/Kg
86-74-8	Carbazole	1.00	U	0.19	1.00	mg/Kg
84-74-2	Di-n-butylphthalate	1.00	U	0.29	1.00	mg/Kg
206-44-0	Fluoranthene	1.00	U	0.18	1.00	mg/Kg
129-00-0	Pyrene	1.00	U	0.22	1.00	mg/Kg
85-68-7	Butylbenzylphthalate	1.00	U	0.43	1.00	mg/Kg
91-94-1	3,3-Dichlorobenzidine	2.00	U	0.22	2.00	mg/Kg
56-55-3	Benzo(a)anthracene	1.00	U	0.14	1.00	mg/Kg
218-01-9	Chrysene	1.00	U	0.12	1.00	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1.00	U	0.35	1.00	mg/Kg
117-84-0	Di-n-octyl phthalate	2.00	U	0.52	2.00	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.00	U	0.11	1.00	mg/Kg

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50-32-8	Benzo(a)pyrene	1.00	U	0.18	1.00	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	0.17	1.00	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.00	U	0.16	1.00	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.00	U	0.15	1.00	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1.00	U	0.15	1.00	mg/Kg
123-91-1	1,4-Dioxane	1.00	U	0.27	1.00	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1.00	U	0.16	1.00	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	77.5		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	77.4		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.7		18 - 107	61%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.8		20 - 109	60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.6		10 - 116	52%	SPK: 150
1718-51-0	Terphenyl-d14	44.6		10 - 105	45%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	27100	6.893
1146-65-2	Naphthalene-d8	91900	8.175
15067-26-2	Acenaphthene-d10	47400	9.934
1517-22-2	Phenanthrene-d10	71100	11.422
1719-03-5	Chrysene-d12	70300	14.063
1520-96-3	Perylene-d12	67900	15.545

TENTATIVE IDENTIFIED COMPOUNDS

000630-01-3	Hexacosane	4000	J	10.8	ug/Kg
	unknown10.980	4000	J	11.0	ug/Kg
013187-99-0	2-Bromo dodecane	9400	J	11.0	ug/Kg
1000351-88-8	Nonadecyl pentafluoropropionate	4300	J	11.9	ug/Kg
000630-02-4	Octacosane	19000	J	12.0	ug/Kg
000295-65-8	Cyclohexadecane	6300	J	12.5	ug/Kg
000057-11-4	Octadecanoic acid	10400	J	12.7	ug/Kg

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000630-06-8	Hexatriacontane	3800	J		13.5	ug/Kg
001560-92-5	Hexadecane, 2-methyl-	6100	J		14.2	ug/Kg
000593-45-3	Octadecane	4300	J		14.7	ug/Kg
000629-99-2	Pentacosane	21900	J		14.8	ug/Kg
007683-64-9	Supraene	5300	J		14.9	ug/Kg
000638-68-6	triacontane	4800	J		15.2	ug/Kg
000112-95-8	Eicosane	8800	J		15.3	ug/Kg
017312-75-3	Nonane, 5-methyl-5-propyl-	13300	J		15.6	ug/Kg
007098-21-7	Tritetracontane	4800	J		15.9	ug/Kg
013287-24-6	Nonadecane, 9-methyl-	4900	J		16.0	ug/Kg
001560-98-1	Octacosane, 2-methyl-	7000	J		16.2	ug/Kg
000544-77-4	Hexadecane, 1-iodo-	12900	J		16.6	ug/Kg
1000406-32-4	Dotriacontane, 1-iodo-	9200	J		18.1	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