

Report of Analysis

Client:	PSEG	Date Collected:	08/28/25
Project:	Lawrenceville HQ	Date Received:	08/28/25
Client Sample ID:	LAW-25-0128	SDG No.:	Q2983
Lab Sample ID:	Q2983-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.9
Sample Wt/Vol:	30.01 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
BG064237.D	1	08/29/25 09:15	08/29/25 21:22	PB169461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.37	U	0.18	0.37	mg/Kg
108-95-2	Phenol	0.19	U	0.025	0.19	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.19	U	0.027	0.19	mg/Kg
95-57-8	2-Chlorophenol	0.19	U	0.027	0.19	mg/Kg
95-48-7	2-Methylphenol	0.19	U	0.034	0.19	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.19	U	0.042	0.19	mg/Kg
98-86-2	Acetophenone	0.19	U	0.033	0.19	mg/Kg
65794-96-9	3+4-Methylphenols	0.37	U	0.046	0.37	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.090	U	0.053	0.090	mg/Kg
67-72-1	Hexachloroethane	0.19	U	0.020	0.19	mg/Kg
98-95-3	Nitrobenzene	0.19	U	0.021	0.19	mg/Kg
78-59-1	Isophorone	0.19	U	0.037	0.19	mg/Kg
88-75-5	2-Nitrophenol	0.19	U	0.065	0.19	mg/Kg
105-67-9	2,4-Dimethylphenol	0.19	U	0.073	0.19	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.19	U	0.035	0.19	mg/Kg
120-83-2	2,4-Dichlorophenol	0.19	U	0.032	0.19	mg/Kg
91-20-3	Naphthalene	0.19	U	0.026	0.19	mg/Kg
106-47-8	4-Chloroaniline	0.19	U	0.040	0.19	mg/Kg
87-68-3	Hexachlorobutadiene	0.19	U	0.028	0.19	mg/Kg
105-60-2	Caprolactam	0.37	U	0.059	0.37	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.19	U	0.032	0.19	mg/Kg
91-57-6	2-Methylnaphthalene	0.19	U	0.029	0.19	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.37	U	0.13	0.37	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.19	U	0.022	0.19	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.19	U	0.033	0.19	mg/Kg
92-52-4	1,1-Biphenyl	0.19	U	0.025	0.19	mg/Kg
91-58-7	2-Chloronaphthalene	0.19	U	0.025	0.19	mg/Kg
88-74-4	2-Nitroaniline	0.19	U	0.054	0.19	mg/Kg
131-11-3	Dimethylphthalate	0.19	U	0.031	0.19	mg/Kg

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208-96-8	Acenaphthylene	0.19	U	0.033	0.19	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.19	U	0.038	0.19	mg/Kg
99-09-2	3-Nitroaniline	0.19	U	0.052	0.19	mg/Kg
83-32-9	Acenaphthene	0.19	U	0.024	0.19	mg/Kg
51-28-5	2,4-Dinitrophenol	0.37	U	0.26	0.37	mg/Kg
100-02-7	4-Nitrophenol	0.37	U	0.12	0.37	mg/Kg
132-64-9	Dibenzofuran	0.19	U	0.026	0.19	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.19	U	0.056	0.19	mg/Kg
84-66-2	Diethylphthalate	0.19	U	0.032	0.19	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.19	U	0.030	0.19	mg/Kg
86-73-7	Fluorene	0.19	U	0.028	0.19	mg/Kg
100-01-6	4-Nitroaniline	0.19	U	0.072	0.19	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.37	U	0.12	0.37	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.19	U	0.037	0.19	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.19	U	0.031	0.19	mg/Kg
118-74-1	Hexachlorobenzene	0.19	U	0.028	0.19	mg/Kg
1912-24-9	Atrazine	0.19	U	0.038	0.19	mg/Kg
87-86-5	Pentachlorophenol	0.37	U	0.058	0.37	mg/Kg
85-01-8	Phenanthrene	0.19	U	0.024	0.19	mg/Kg
120-12-7	Anthracene	0.19	U	0.037	0.19	mg/Kg
86-74-8	Carbazole	0.19	U	0.035	0.19	mg/Kg
84-74-2	Di-n-butylphthalate	0.19	U	0.054	0.19	mg/Kg
206-44-0	Fluoranthene	0.19	U	0.034	0.19	mg/Kg
129-00-0	Pyrene	0.19	U	0.041	0.19	mg/Kg
85-68-7	Butylbenzylphthalate	0.19	U	0.080	0.19	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.37	U	0.041	0.37	mg/Kg
56-55-3	Benzo(a)anthracene	0.19	U	0.026	0.19	mg/Kg
218-01-9	Chrysene	0.19	U	0.022	0.19	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1.00		0.067	0.19	mg/Kg
117-84-0	Di-n-octyl phthalate	0.37	U	0.098	0.37	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.19	U	0.021	0.19	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.19	U	0.025	0.19	mg/Kg
50-32-8	Benzo(a)pyrene	0.19	U	0.033	0.19	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	U	0.033	0.19	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.031	0.19	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.19	U	0.029	0.19	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.19	U	0.029	0.19	mg/Kg
123-91-1	1,4-Dioxane	0.19	U	0.051	0.19	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.19	U	0.031	0.19	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	6.50	*	18 - 112	4%	SPK: 150
13127-88-3	Phenol-d6	6.08	*	15 - 107	4%	SPK: 150
4165-60-0	Nitrobenzene-d5	5.05	*	18 - 107	5%	SPK: 100
321-60-8	2-Fluorobiphenyl	6.59	*	20 - 109	7%	SPK: 100
118-79-6	2,4,6-Tribromophenol	6.40	*	10 - 116	4%	SPK: 150
1718-51-0	Terphenyl-d14	7.40	*	10 - 105	7%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	35900	7.859
1146-65-2	Naphthalene-d8	168000	10.644
15067-26-2	Acenaphthene-d10	109000	14.481
1517-22-2	Phenanthrene-d10	225000	17.219
1719-03-5	Chrysene-d12	183000	21.478
1520-96-3	Perylene-d12	222000	24.522

TENTATIVE IDENTIFIED COMPOUNDS

000719-22-2	2,5-Cyclohexadiene-1,4-dione, 2,6-	160	J	14.1	ug/Kg
000119-61-9	Benzophenone	220	J	15.8	ug/Kg
000544-76-3	Hexadecane	270	J	16.2	ug/Kg
055319-83-0	Docosane, 9-octyl-	160	J	16.5	ug/Kg
1000309-38-1	Oxalic acid, isobutyl hexadecyl es	250	J	16.8	ug/Kg
000593-45-3	Octadecane	490	J	17.0	ug/Kg
019218-94-1	Tetradecane, 1-iodo-	300	J	17.3	ug/Kg

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Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
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077536-31-3	Docosane, 2,21-dimethyl-	230	J		17.5	ug/Kg
006418-46-8	Eicosane, 3-methyl-	360	J		17.5	ug/Kg
000629-78-7	Heptadecane	850	J		17.7	ug/Kg
055045-09-5	Tridecane, 7-propyl-	960	J		18.0	ug/Kg
006418-45-7	Nonadecane, 3-methyl-	510	J		18.1	ug/Kg
000593-49-7	Heptacosane	430	J		18.2	ug/Kg
006418-43-5	Hexadecane, 3-methyl-	720	J		18.2	ug/Kg
055045-08-4	Dodecane, 2-methyl-6-propyl-	1800	J		18.4	ug/Kg
013287-24-6	Nonadecane, 9-methyl-	1800	J		18.7	ug/Kg
054833-23-7	Eicosane, 10-methyl-	2300	J		18.9	ug/Kg
000629-92-5	Nonadecane	3200	J		19.1	ug/Kg
007225-66-3	Tridecane, 7-hexyl-	4900	J		19.3	ug/Kg
054833-48-6	Heptadecane, 2,6,10,15-tetramethyl	750	J		19.7	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