

Report of Analysis

Client:	PSEG	Date Collected:	04/02/25
Project:	Plainfield Gas and Appliance Service MA0006789	Date Received:	04/02/25
Client Sample ID:	PL-01-040225	SDG No.:	Q1706
Lab Sample ID:	Q1706-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.9
Sample Wt/Vol:	50.05 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
BM049811.D	2	04/03/25 09:25	04/03/25 18:32	PB167436

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.21	U	0.21	0.44	mg/Kg
108-95-2	Phenol	0.030	U	0.030	0.23	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.032	U	0.032	0.23	mg/Kg
95-57-8	2-Chlorophenol	0.033	U	0.033	0.23	mg/Kg
95-48-7	2-Methylphenol	0.040	U	0.040	0.23	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.050	U	0.050	0.23	mg/Kg
98-86-2	Acetophenone	0.039	U	0.039	0.23	mg/Kg
65794-96-9	3+4-Methylphenols	0.055	U	0.055	0.44	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.063	U	0.063	0.11	mg/Kg
67-72-1	Hexachloroethane	0.024	U	0.024	0.23	mg/Kg
98-95-3	Nitrobenzene	0.024	U	0.024	0.23	mg/Kg
78-59-1	Isophorone	0.044	U	0.044	0.23	mg/Kg
88-75-5	2-Nitrophenol	0.078	U	0.078	0.23	mg/Kg
105-67-9	2,4-Dimethylphenol	0.086	U	0.086	0.23	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.041	U	0.041	0.23	mg/Kg
120-83-2	2,4-Dichlorophenol	0.038	U	0.038	0.23	mg/Kg
91-20-3	Naphthalene	0.030	U	0.030	0.23	mg/Kg
106-47-8	4-Chloroaniline	0.047	U	0.047	0.23	mg/Kg
87-68-3	Hexachlorobutadiene	0.034	U	0.034	0.23	mg/Kg
105-60-2	Caprolactam	0.070	U	0.070	0.44	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.038	U	0.038	0.23	mg/Kg
91-57-6	2-Methylnaphthalene	0.034	U	0.034	0.23	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.15	U	0.15	0.44	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.026	U	0.026	0.23	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.039	U	0.039	0.23	mg/Kg
92-52-4	1,1-Biphenyl	0.029	U	0.029	0.23	mg/Kg
91-58-7	2-Chloronaphthalene	0.030	U	0.030	0.23	mg/Kg
88-74-4	2-Nitroaniline	0.064	U	0.064	0.23	mg/Kg
131-11-3	Dimethylphthalate	0.036	U	0.036	0.23	mg/Kg

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208-96-8	Acenaphthylene	0.19	J	0.039	0.23	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.045	U	0.045	0.23	mg/Kg
99-09-2	3-Nitroaniline	0.061	U	0.061	0.23	mg/Kg
83-32-9	Acenaphthene	0.028	U	0.028	0.23	mg/Kg
51-28-5	2,4-Dinitrophenol	0.31	U	0.31	0.44	mg/Kg
100-02-7	4-Nitrophenol	0.14	U	0.14	0.44	mg/Kg
132-64-9	Dibenzofuran	0.030	U	0.030	0.23	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.067	U	0.067	0.23	mg/Kg
84-66-2	Diethylphthalate	0.038	U	0.038	0.23	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	0.036	0.23	mg/Kg
86-73-7	Fluorene	0.14	J	0.034	0.23	mg/Kg
100-01-6	4-Nitroaniline	0.086	U	0.086	0.23	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.14	U	0.14	0.44	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.044	U	0.044	0.23	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.037	U	0.037	0.23	mg/Kg
118-74-1	Hexachlorobenzene	0.034	U	0.034	0.23	mg/Kg
1912-24-9	Atrazine	0.045	U	0.045	0.23	mg/Kg
87-86-5	Pentachlorophenol	0.068	U	0.068	0.44	mg/Kg
85-01-8	Phenanthrene	0.88		0.028	0.23	mg/Kg
120-12-7	Anthracene	0.29		0.044	0.23	mg/Kg
86-74-8	Carbazole	0.042	U	0.042	0.23	mg/Kg
84-74-2	Di-n-butylphthalate	0.064	U	0.064	0.23	mg/Kg
206-44-0	Fluoranthene	1.20		0.040	0.23	mg/Kg
129-00-0	Pyrene	1.00		0.048	0.23	mg/Kg
85-68-7	Butylbenzylphthalate	0.095	U	0.095	0.23	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.049	U	0.049	0.44	mg/Kg
56-55-3	Benzo(a)anthracene	0.56		0.031	0.23	mg/Kg
218-01-9	Chrysene	0.54		0.027	0.23	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.079	U	0.079	0.23	mg/Kg
117-84-0	Di-n-octyl phthalate	0.12	U	0.12	0.44	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.60		0.025	0.23	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.21	J	0.030	0.23	mg/Kg
50-32-8	Benzo(a)pyrene	0.55		0.039	0.23	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.28		0.039	0.23	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.093	J	0.037	0.23	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.34		0.034	0.23	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	U	0.034	0.23	mg/Kg
123-91-1	1,4-Dioxane	0.060	U	0.060	0.23	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.037	U	0.037	0.23	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	82.2		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	83.2		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.6		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.5		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	85.1		10 - 116	57%	SPK: 150
1718-51-0	Terphenyl-d14	43.6		10 - 105	44%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	380000	7.787	
1146-65-2	Naphthalene-d8	1320000	10.581	
15067-26-2	Acenaphthene-d10	855000	14.427	
1517-22-2	Phenanthrene-d10	1680000	17.168	
1719-03-5	Chrysene-d12	1780000	21.403	
1520-96-3	Perylene-d12	1960000	24.409	

TENTATIVE IDENTIFIED COMPOUNDS

	unknown4.904	290	J		4.90	ug/Kg
1000382-90-8	Carbonic acid, prop-1-en-2-yl trid	220	J		9.02	ug/Kg
017312-82-2	Undecane, 4,6-dimethyl-	160	J		11.6	ug/Kg
000629-50-5	Tridecane	270	J		12.0	ug/Kg
062238-11-3	Decane, 2,3,5-trimethyl-	350	J		13.3	ug/Kg
000629-92-5	Nonadecane	370	J		14.3	ug/Kg
000629-78-7	Heptadecane	360	J		15.3	ug/Kg

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000646-31-1	Tetracosane	210	J		15.7	ug/Kg
000119-61-9	Benzophenone	210	J		15.8	ug/Kg
000629-59-4	Tetradecane	450	J		16.2	ug/Kg
001921-70-6	Pentadecane, 2,6,10,14-tetramethyl	170	J		16.2	ug/Kg
000629-94-7	Heneicosane	300	J		16.9	ug/Kg
	unknown16.992	260	J		17.0	ug/Kg
035599-77-0	Tridecane, 1-iodo-	280	J		17.7	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	180	J		18.0	ug/Kg
000613-12-7	Anthracene, 2-methyl-	420	J		18.1	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	400	J		18.2	ug/Kg
000630-02-4	Octacosane	240	J		18.4	ug/Kg
002566-97-4	9,12-Octadecadienoic acid, methyl	350	J		19.0	ug/Kg
001937-62-8	9-Octadecenoic acid, methyl ester,	610	J		19.0	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