

Report of Analysis

Client:	PSEG	Date Collected:	02/21/25
Project:	Burlington Gas and Appliance Service MA00006789	Date Received:	02/21/25
Client Sample ID:	BU-2-022125	SDG No.:	Q1413
Lab Sample ID:	Q1413-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	50.06	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
BF141750.D	2	02/24/25 09:45	02/24/25 18:07	PB166840

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.40	U	0.22	0.40	mg/Kg
108-95-2	Phenol	0.20	U	0.099	0.20	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.20	U	0.10	0.20	mg/Kg
95-57-8	2-Chlorophenol	0.20	U	0.10	0.20	mg/Kg
95-48-7	2-Methylphenol	0.20	U	0.097	0.20	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.20	U	0.11	0.20	mg/Kg
98-86-2	Acetophenone	0.20	U	0.10	0.20	mg/Kg
65794-96-9	3+4-Methylphenols	0.40	U	0.096	0.40	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.096	U	0.048	0.096	mg/Kg
67-72-1	Hexachloroethane	0.20	U	0.100	0.20	mg/Kg
98-95-3	Nitrobenzene	0.20	U	0.11	0.20	mg/Kg
78-59-1	Isophorone	0.20	U	0.10	0.20	mg/Kg
88-75-5	2-Nitrophenol	0.20	U	0.11	0.20	mg/Kg
105-67-9	2,4-Dimethylphenol	0.20	U	0.11	0.20	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.20	U	0.10	0.20	mg/Kg
120-83-2	2,4-Dichlorophenol	0.20	U	0.091	0.20	mg/Kg
91-20-3	Naphthalene	0.20	U	0.099	0.20	mg/Kg
106-47-8	4-Chloroaniline	0.20	U	0.099	0.20	mg/Kg
87-68-3	Hexachlorobutadiene	0.20	U	0.100	0.20	mg/Kg
105-60-2	Caprolactam	0.40	U	0.10	0.40	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.20	U	0.093	0.20	mg/Kg
91-57-6	2-Methylnaphthalene	0.10	J	0.099	0.20	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.40	U	0.19	0.40	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.20	U	0.086	0.20	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.20	U	0.089	0.20	mg/Kg
92-52-4	1,1-Biphenyl	0.20	U	0.10	0.20	mg/Kg
91-58-7	2-Chloronaphthalene	0.20	U	0.100	0.20	mg/Kg
88-74-4	2-Nitroaniline	0.20	U	0.11	0.20	mg/Kg
131-11-3	Dimethylphthalate	0.20	U	0.098	0.20	mg/Kg

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208-96-8	Acenaphthylene	0.14	J	0.10	0.20	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.20	U	0.100	0.20	mg/Kg
99-09-2	3-Nitroaniline	0.20	U	0.11	0.20	mg/Kg
83-32-9	Acenaphthene	0.20	U	0.097	0.20	mg/Kg
51-28-5	2,4-Dinitrophenol	0.40	U	0.29	0.40	mg/Kg
100-02-7	4-Nitrophenol	0.40	U	0.14	0.40	mg/Kg
132-64-9	Dibenzofuran	0.20	U	0.10	0.20	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.20	U	0.10	0.20	mg/Kg
84-66-2	Diethylphthalate	0.20	U	0.096	0.20	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.20	U	0.10	0.20	mg/Kg
86-73-7	Fluorene	0.20	U	0.10	0.20	mg/Kg
100-01-6	4-Nitroaniline	0.20	U	0.13	0.20	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.40	U	0.14	0.40	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.20	U	0.098	0.20	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.20	U	0.095	0.20	mg/Kg
118-74-1	Hexachlorobenzene	0.20	U	0.10	0.20	mg/Kg
1912-24-9	Atrazine	0.20	U	0.11	0.20	mg/Kg
87-86-5	Pentachlorophenol	0.40	U	0.093	0.40	mg/Kg
85-01-8	Phenanthrene	0.45		0.10	0.20	mg/Kg
120-12-7	Anthracene	0.10	J	0.10	0.20	mg/Kg
86-74-8	Carbazole	0.20	U	0.096	0.20	mg/Kg
84-74-2	Di-n-butylphthalate	0.20	U	0.10	0.20	mg/Kg
206-44-0	Fluoranthene	1.20		0.098	0.20	mg/Kg
129-00-0	Pyrene	1.10		0.100	0.20	mg/Kg
85-68-7	Butylbenzylphthalate	0.20	U	0.12	0.20	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.40	U	0.12	0.40	mg/Kg
56-55-3	Benzo(a)anthracene	0.70		0.097	0.20	mg/Kg
218-01-9	Chrysene	0.72		0.095	0.20	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.20	U	0.11	0.20	mg/Kg
117-84-0	Di-n-octyl phthalate	0.40	U	0.13	0.40	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.71		0.097	0.20	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.43		0.099	0.20	mg/Kg
50-32-8	Benzo(a)pyrene	0.70		0.11	0.20	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.34		0.094	0.20	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.12	J	0.097	0.20	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.41		0.096	0.20	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.20	U	0.10	0.20	mg/Kg
123-91-1	1,4-Dioxane	0.20	U	0.13	0.20	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.20	U	0.090	0.20	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	116		18 - 112	77%	SPK: 150
13127-88-3	Phenol-d6	107		15 - 107	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.9		18 - 107	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.8		20 - 109	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	105		10 - 116	70%	SPK: 150
1718-51-0	Terphenyl-d14	80.7		10 - 105	81%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	72900	6.781
1146-65-2	Naphthalene-d8	251000	8.063
15067-26-2	Acenaphthene-d10	116000	9.816
1517-22-2	Phenanthrene-d10	195000	11.298
1719-03-5	Chrysene-d12	170000	13.939
1520-96-3	Perylene-d12	126000	15.386

TENTATIVE IDENTIFIED COMPOUNDS

000124-18-5	Decane	410	J	6.61	ug/Kg
001074-43-7	Benzene, 1-methyl-3-propyl-	390	J	7.05	ug/Kg
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	360	J	7.10	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	290	J	7.80	ug/Kg
000629-50-5	Tridecane	370	J	8.65	ug/Kg
	unknown9.010	310	J	9.01	ug/Kg
003891-98-3	Dodecane, 2,6,10-trimethyl-	340	J	9.08	ug/Kg

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000629-59-4	Tetradecane	1300	J		9.22	ug/Kg
000575-37-1	Naphthalene, 1,7-dimethyl-	460	J		9.47	ug/Kg
003386-33-2	Octadecane, 1-chloro-	770	J		9.53	ug/Kg
000629-62-9	Pentadecane	1300	J		9.74	ug/Kg
000544-76-3	Hexadecane	1300	J		10.2	ug/Kg
017301-22-3	Undecane, 2,5-dimethyl-	590	J		10.5	ug/Kg
000629-78-7	Heptadecane	1800	J		10.7	ug/Kg
000593-45-3	Octadecane	1200	J		11.2	ug/Kg
013287-21-3	Tridecane, 6-methyl-	510	J		11.2	ug/Kg
000629-92-5	Nonadecane	1000	J		11.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	400	J		11.8	ug/Kg
055045-08-4	Dodecane, 2-methyl-6-propyl-	880	J		12.0	ug/Kg
000629-94-7	Heneicosane	820	J		12.4	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