

Report of Analysis

Client:	PSEG	Date Collected:	04/29/25
Project:	Orange Gas and Appliance Service MA00006789	Date Received:	04/29/25
Client Sample ID:	EO-03-04292025	SDG No.:	Q1911
Lab Sample ID:	Q1911-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.1
Sample Wt/Vol:	50.02 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
BP024484.D	2	04/30/25 11:00	04/30/25 22:13	PB167803

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.20	U	0.20	0.43	mg/Kg
108-95-2	Phenol	0.029	U	0.029	0.22	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.031	U	0.031	0.22	mg/Kg
95-57-8	2-Chlorophenol	0.031	U	0.031	0.22	mg/Kg
95-48-7	2-Methylphenol	0.039	U	0.039	0.22	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.048	U	0.048	0.22	mg/Kg
98-86-2	Acetophenone	0.038	U	0.038	0.22	mg/Kg
65794-96-9	3+4-Methylphenols	0.053	U	0.053	0.43	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.061	U	0.061	0.10	mg/Kg
67-72-1	Hexachloroethane	0.023	U	0.023	0.22	mg/Kg
98-95-3	Nitrobenzene	0.024	U	0.024	0.22	mg/Kg
78-59-1	Isophorone	0.042	U	0.042	0.22	mg/Kg
88-75-5	2-Nitrophenol	0.075	U	0.075	0.22	mg/Kg
105-67-9	2,4-Dimethylphenol	0.084	U	0.084	0.22	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.040	U	0.040	0.22	mg/Kg
120-83-2	2,4-Dichlorophenol	0.037	U	0.037	0.22	mg/Kg
91-20-3	Naphthalene	0.029	U	0.029	0.22	mg/Kg
106-47-8	4-Chloroaniline	0.046	U	0.046	0.22	mg/Kg
87-68-3	Hexachlorobutadiene	0.033	U	0.033	0.22	mg/Kg
105-60-2	Caprolactam	0.067	U	0.067	0.43	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.037	U	0.037	0.22	mg/Kg
91-57-6	2-Methylnaphthalene	0.033	U	0.033	0.22	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.15	U	0.15	0.43	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.026	U	0.026	0.22	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.038	U	0.038	0.22	mg/Kg
92-52-4	1,1-Biphenyl	0.028	U	0.028	0.22	mg/Kg
91-58-7	2-Chloronaphthalene	0.029	U	0.029	0.22	mg/Kg
88-74-4	2-Nitroaniline	0.062	U	0.062	0.22	mg/Kg
131-11-3	Dimethylphthalate	0.035	U	0.035	0.22	mg/Kg

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208-96-8	Acenaphthylene	0.13	J	0.037	0.22	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.043	U	0.043	0.22	mg/Kg
99-09-2	3-Nitroaniline	0.059	U	0.059	0.22	mg/Kg
83-32-9	Acenaphthene	0.027	U	0.027	0.22	mg/Kg
51-28-5	2,4-Dinitrophenol	0.30	U	0.30	0.43	mg/Kg
100-02-7	4-Nitrophenol	0.14	U	0.14	0.43	mg/Kg
132-64-9	Dibenzofuran	0.029	U	0.029	0.22	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.065	U	0.065	0.22	mg/Kg
84-66-2	Diethylphthalate	0.037	U	0.037	0.22	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.034	U	0.034	0.22	mg/Kg
86-73-7	Fluorene	0.033	U	0.033	0.22	mg/Kg
100-01-6	4-Nitroaniline	0.083	U	0.083	0.22	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.13	U	0.13	0.43	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.042	U	0.042	0.22	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.036	U	0.036	0.22	mg/Kg
118-74-1	Hexachlorobenzene	0.033	U	0.033	0.22	mg/Kg
1912-24-9	Atrazine	0.044	U	0.044	0.22	mg/Kg
87-86-5	Pentachlorophenol	0.066	U	0.066	0.43	mg/Kg
85-01-8	Phenanthrene	0.61		0.027	0.22	mg/Kg
120-12-7	Anthracene	0.19	J	0.043	0.22	mg/Kg
86-74-8	Carbazole	0.040	U	0.040	0.22	mg/Kg
84-74-2	Di-n-butylphthalate	0.062	U	0.062	0.22	mg/Kg
206-44-0	Fluoranthene	1.30		0.039	0.22	mg/Kg
129-00-0	Pyrene	1.30		0.046	0.22	mg/Kg
85-68-7	Butylbenzylphthalate	0.092	U	0.092	0.22	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.047	U	0.047	0.43	mg/Kg
56-55-3	Benzo(a)anthracene	0.79		0.030	0.22	mg/Kg
218-01-9	Chrysene	0.76		0.026	0.22	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.076	U	0.076	0.22	mg/Kg
117-84-0	Di-n-octyl phthalate	0.11	U	0.11	0.43	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.98		0.025	0.22	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.35		0.029	0.22	mg/Kg
50-32-8	Benzo(a)pyrene	0.86		0.038	0.22	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.50		0.038	0.22	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.15	J	0.035	0.22	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.58		0.033	0.22	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	0.033	0.22	mg/Kg
123-91-1	1,4-Dioxane	0.058	U	0.058	0.22	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.035	U	0.035	0.22	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	76.8		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	75.1		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.8		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.3		20 - 109	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.1		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	57.5		10 - 105	58%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	216000	7.71
1146-65-2	Naphthalene-d8	863000	10.487
15067-26-2	Acenaphthene-d10	512000	14.345
1517-22-2	Phenanthrene-d10	885000	17.145
1719-03-5	Chrysene-d12	827000	21.592
1520-96-3	Perylene-d12	982000	24.951

TENTATIVE IDENTIFIED COMPOUNDS

000488-23-3	Benzene, 1,2,3,4-tetramethyl-	290	J	8.34	ug/Kg
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	500	J	8.80	ug/Kg
001120-21-4	Undecane	470	J	8.92	ug/Kg
001595-16-0	Benzene, 1-methyl-4-(1-methylpropyl)-	390	J	9.05	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	330	J	9.67	ug/Kg
000824-90-8	1-Phenyl-1-butene	330	J	9.89	ug/Kg
017312-81-1	Undecane, 3,5-dimethyl-	340	J	10.6	ug/Kg

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004292-75-5	Cyclohexane, hexyl-	280	J		11.2	ug/Kg
006682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethy	340	J		11.4	ug/Kg
061141-72-8	Dodecane, 4,6-dimethyl-	470	J		11.5	ug/Kg
001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-	390	J		11.7	ug/Kg
000629-50-5	Tridecane	420	J		11.9	ug/Kg
013065-07-1	Naphthalene, 1,2,3,4-tetrahydro-2,	360	J		12.4	ug/Kg
031081-18-2	Nonane, 3-methyl-5-propyl-	390	J		12.9	ug/Kg
000629-59-4	Tetradecane	430	J		13.2	ug/Kg
000098-73-7	Benzoic acid, p-tert-butyl-	390	J		14.2	ug/Kg
000629-92-5	Nonadecane	310	J		14.2	ug/Kg
000629-78-7	Heptadecane	310	J		16.1	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	430	J		18.1	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	330	J		18.3	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