

Report of Analysis

Client:	PSEG	Date Collected:	07/15/25
Project:	Orange Gas and Appliance Service MA00006789	Date Received:	07/15/25
Client Sample ID:	EO-02-071525	SDG No.:	Q2611
Lab Sample ID:	Q2611-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.1
Sample Wt/Vol:	50.05	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
BP025169.D	10	07/16/25 09:05	07/16/25 22:26	PB168875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.98	U	0.98	2.10	mg/Kg
108-95-2	Phenol	0.14	U	0.14	1.10	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.15	U	0.15	1.10	mg/Kg
95-57-8	2-Chlorophenol	0.15	U	0.15	1.10	mg/Kg
95-48-7	2-Methylphenol	0.19	U	0.19	1.10	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.24	U	0.24	1.10	mg/Kg
98-86-2	Acetophenone	0.19	U	0.19	1.10	mg/Kg
65794-96-9	3+4-Methylphenols	0.26	U	0.26	2.10	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.30	U	0.30	0.50	mg/Kg
67-72-1	Hexachloroethane	0.11	U	0.11	1.10	mg/Kg
98-95-3	Nitrobenzene	0.12	U	0.12	1.10	mg/Kg
78-59-1	Isophorone	0.21	U	0.21	1.10	mg/Kg
88-75-5	2-Nitrophenol	0.37	U	0.37	1.10	mg/Kg
105-67-9	2,4-Dimethylphenol	0.41	U	0.41	1.10	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.19	U	0.19	1.10	mg/Kg
120-83-2	2,4-Dichlorophenol	0.18	U	0.18	1.10	mg/Kg
91-20-3	Naphthalene	0.14	U	0.14	1.10	mg/Kg
106-47-8	4-Chloroaniline	0.22	U	0.22	1.10	mg/Kg
87-68-3	Hexachlorobutadiene	0.16	U	0.16	1.10	mg/Kg
105-60-2	Caprolactam	0.33	U	0.33	2.10	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.18	U	0.18	1.10	mg/Kg
91-57-6	2-Methylnaphthalene	0.16	U	0.16	1.10	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.73	U	0.73	2.10	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.12	U	0.12	1.10	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.18	U	0.18	1.10	mg/Kg
92-52-4	1,1-Biphenyl	0.14	U	0.14	1.10	mg/Kg
91-58-7	2-Chloronaphthalene	0.14	U	0.14	1.10	mg/Kg
88-74-4	2-Nitroaniline	0.30	U	0.30	1.10	mg/Kg
131-11-3	Dimethylphthalate	0.17	U	0.17	1.10	mg/Kg

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208-96-8	Acenaphthylene	0.18	U	0.18	1.10	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.21	U	0.21	1.10	mg/Kg
99-09-2	3-Nitroaniline	0.29	U	0.29	1.10	mg/Kg
83-32-9	Acenaphthene	0.13	U	0.13	1.10	mg/Kg
51-28-5	2,4-Dinitrophenol	1.40	U	1.40	2.10	mg/Kg
100-02-7	4-Nitrophenol	0.67	U	0.67	2.10	mg/Kg
132-64-9	Dibenzofuran	0.14	U	0.14	1.10	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.32	U	0.32	1.10	mg/Kg
84-66-2	Diethylphthalate	0.18	U	0.18	1.10	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.17	U	0.17	1.10	mg/Kg
86-73-7	Fluorene	0.51	J	0.16	1.10	mg/Kg
100-01-6	4-Nitroaniline	0.40	U	0.40	1.10	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.65	U	0.65	2.10	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.21	U	0.21	1.10	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.18	U	0.18	1.10	mg/Kg
118-74-1	Hexachlorobenzene	0.16	U	0.16	1.10	mg/Kg
1912-24-9	Atrazine	0.21	U	0.21	1.10	mg/Kg
87-86-5	Pentachlorophenol	0.32	U	0.32	2.10	mg/Kg
85-01-8	Phenanthrene	4.20		0.13	1.10	mg/Kg
120-12-7	Anthracene	1.70		0.21	1.10	mg/Kg
86-74-8	Carbazole	0.20	U	0.20	1.10	mg/Kg
84-74-2	Di-n-butylphthalate	0.30	U	0.30	1.10	mg/Kg
206-44-0	Fluoranthene	6.80		0.19	1.10	mg/Kg
129-00-0	Pyrene	5.80		0.23	1.10	mg/Kg
85-68-7	Butylbenzylphthalate	0.45	U	0.45	1.10	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.23	U	0.23	2.10	mg/Kg
56-55-3	Benzo(a)anthracene	3.60		0.14	1.10	mg/Kg
218-01-9	Chrysene	3.20		0.13	1.10	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.37	U	0.37	1.10	mg/Kg
117-84-0	Di-n-octyl phthalate	0.55	U	0.55	2.10	mg/Kg
205-99-2	Benzo(b)fluoranthene	3.60		0.12	1.10	mg/Kg

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207-08-9	Benzo(k)fluoranthene	1.40		0.14	1.10	mg/Kg
50-32-8	Benzo(a)pyrene	3.30		0.19	1.10	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.80		0.18	1.10	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.58	J	0.17	1.10	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.90		0.16	1.10	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.16	U	0.16	1.10	mg/Kg
123-91-1	1,4-Dioxane	0.28	U	0.28	1.10	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.17	U	0.17	1.10	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	63.2		18 - 112	42%	SPK: 150
13127-88-3	Phenol-d6	61.9		15 - 107	41%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.4		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.7		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.0		10 - 116	52%	SPK: 150
1718-51-0	Terphenyl-d14	53.7		10 - 105	54%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	631000	7.443
1146-65-2	Naphthalene-d8	2450000	10.196
15067-26-2	Acenaphthene-d10	1510000	14.107
1517-22-2	Phenanthrene-d10	2890000	16.919
1719-03-5	Chrysene-d12	3050000	21.348
1520-96-3	Perylene-d12	3710000	24.501

TENTATIVE IDENTIFIED COMPOUNDS

000629-99-2	Pentacosane	1800	J	17.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	3700	J	17.9	ug/Kg
007098-22-8	Tetratetracontane	2900	J	18.8	ug/Kg
002462-85-3	9,12-Octadecadienoic acid, methyl	2900	J	18.9	ug/Kg
056554-46-2	12-Octadecenoic acid, methyl ester	3700	J	18.9	ug/Kg
006222-02-2	Tetradecyl trifluoroacetate	16600	J	19.1	ug/Kg
1000370-41-6	2,6,10,14-Tetramethyl-7-(3-methylp	2000	J	20.1	ug/Kg

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1000466-24-3	Tetracosan-10-yl acetate	3100	J		20.4	ug/Kg
003452-07-1	1-Eicosene	2600	J		20.7	ug/Kg
000629-94-7	Heneicosane	8000	J		21.2	ug/Kg
	unknown21.471	2800	J		21.5	ug/Kg
000544-76-3	Hexadecane	3800	J		21.5	ug/Kg
1000351-76-3	Nonadecyl trifluoroacetate	3800	J		21.8	ug/Kg
000638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	3800	J		22.1	ug/Kg
	unknown22.401	2300	J		22.4	ug/Kg
1000406-41-4	Butyl tetratriacontyl ether	1900	J		22.4	ug/Kg
1000156-09-4	Tetrapentacontane, 1,54-dibromo-	1900	J		22.5	ug/Kg
000593-45-3	Octadecane	4700	J		22.5	ug/Kg
055320-06-4	Heneicosane, 11-decyl-	3400	J		22.8	ug/Kg
002082-79-3	Benzenepropanoic acid, 3,5-bis(1,1	2100	J		23.1	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