

Report of Analysis

Client:	PSEG	Date Collected:	04/01/25		
Project:	Orange Gas and Appliance Service MA00006789	Date Received:	04/01/25		
Client Sample ID:	EO-03-040125	SDG No.:	Q1686		
Lab Sample ID:	Q1686-01	Matrix:	SOIL		
Analytical Method:	SW8270	% Solid:	90.2		
Sample Wt/Vol:	50.02	Units:	g		
Soil Aliquot Vol:			uL		
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
BG064160.D	2	04/02/25 10:10	04/02/25 19:44	PB167428

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	0.029	U	0.029	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	0.032	U	0.032	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	0.023	U	0.023	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	0.077	U	0.077	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	0.069	U	0.069	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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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 :
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208-96-8	Acenaphthylene	0.038	U	0.038	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	0.30	U	0.30	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	0.034	U	0.034	0.23	mg/Kg
100-01-6	4-Nitroaniline	0.085	U	0.085	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	0.37		0.028	0.23	mg/Kg
120-12-7	Anthracene	0.11	J	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	1.40		0.040	0.23	mg/Kg
129-00-0	Pyrene	1.30		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	0.71		0.031	0.23	mg/Kg
218-01-9	Chrysene	0.68		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	1.10		0.025	0.23	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.37		0.030	0.23	mg/Kg
50-32-8	Benzo(a)pyrene	0.87		0.039	0.23	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.45		0.039	0.23	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.12	J	0.036	0.23	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.59		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	0.036	U	0.036	0.23	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	108		18 - 112	72%	SPK: 150
13127-88-3	Phenol-d6	105		15 - 107	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.1		18 - 107	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.9		20 - 109	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		10 - 116	85%	SPK: 150
1718-51-0	Terphenyl-d14	70.0		10 - 105	70%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	45500	7.865
1146-65-2	Naphthalene-d8	188000	10.65
15067-26-2	Acenaphthene-d10	124000	14.487
1517-22-2	Phenanthrene-d10	254000	17.225
1719-03-5	Chrysene-d12	257000	21.455
1520-96-3	Perylene-d12	281000	24.481

TENTATIVE IDENTIFIED COMPOUNDS

	unknown4.992	470	J		4.99	ug/Kg
000119-61-9	Benzophenone	370	J		15.8	ug/Kg
000544-63-8	Tetradecanoic acid	390	J		18.1	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	210	J		18.3	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	130	J		19.2	ug/Kg
1000451-59-7	Cyclopentanecarboxamide, N-(2-phen	120	J		21.1	ug/Kg

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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