

Report of Analysis

Client: PSEG
Project: PSEG Orange Gas
Client Sample ID: RBR200028-RT5376-COMPDL
Lab Sample ID: Q3710-01DL
Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 50.09 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 11/24/25

Date Collected: 11/21/25
Date Received: 11/21/25
SDG No.: Q3710
Matrix: SOIL
% Solid: 88.7
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	2.20	UD	10	1.10	2.20	mg/Kg	11/25/25 17:44	PB170706
108-95-2	Phenol	1.10	UD	10	0.15	1.10	mg/Kg	11/25/25 17:44	PB170706
111-44-4	bis(2-Chloroethyl)ether	1.10	UD	10	0.16	1.10	mg/Kg	11/25/25 17:44	PB170706
95-57-8	2-Chlorophenol	1.10	UD	10	0.16	1.10	mg/Kg	11/25/25 17:44	PB170706
95-48-7	2-Methylphenol	1.10	UD	10	0.20	1.10	mg/Kg	11/25/25 17:44	PB170706
108-60-1	2,2-oxybis(1-Chloropropane)	1.10	UD	10	0.25	1.10	mg/Kg	11/25/25 17:44	PB170706
98-86-2	Acetophenone	1.10	UD	10	0.20	1.10	mg/Kg	11/25/25 17:44	PB170706
65794-96-9	3+4-Methylphenols	2.20	UD	10	0.28	2.20	mg/Kg	11/25/25 17:44	PB170706
621-64-7	n-Nitroso-di-n-propylamine	0.54	UD	10	0.32	0.54	mg/Kg	11/25/25 17:44	PB170706
67-72-1	Hexachloroethane	1.10	UD	10	0.12	1.10	mg/Kg	11/25/25 17:44	PB170706
98-95-3	Nitrobenzene	1.10	UD	10	0.12	1.10	mg/Kg	11/25/25 17:44	PB170706
78-59-1	Isophorone	1.10	UD	10	0.22	1.10	mg/Kg	11/25/25 17:44	PB170706
88-75-5	2-Nitrophenol	1.10	UD	10	0.39	1.10	mg/Kg	11/25/25 17:44	PB170706
105-67-9	2,4-Dimethylphenol	1.10	UD	10	0.44	1.10	mg/Kg	11/25/25 17:44	PB170706
111-91-1	bis(2-Chloroethoxy)methane	1.10	UD	10	0.21	1.10	mg/Kg	11/25/25 17:44	PB170706
120-83-2	2,4-Dichlorophenol	1.10	UD	10	0.19	1.10	mg/Kg	11/25/25 17:44	PB170706
91-20-3	Naphthalene	4.10	D	10	0.15	1.10	mg/Kg	11/25/25 17:44	PB170706
106-47-8	4-Chloroaniline	1.10	UD	10	0.24	1.10	mg/Kg	11/25/25 17:44	PB170706
87-68-3	Hexachlorobutadiene	1.10	UD	10	0.17	1.10	mg/Kg	11/25/25 17:44	PB170706
105-60-2	Caprolactam	2.20	UD	10	0.35	2.20	mg/Kg	11/25/25 17:44	PB170706
59-50-7	4-Chloro-3-methylphenol	1.10	UD	10	0.19	1.10	mg/Kg	11/25/25 17:44	PB170706
91-57-6	2-Methylnaphthalene	5.00	D	10	0.17	1.10	mg/Kg	11/25/25 17:44	PB170706
77-47-4	Hexachlorocyclopentadiene	2.20	UD	10	0.78	2.20	mg/Kg	11/25/25 17:44	PB170706
88-06-2	2,4,6-Trichlorophenol	1.10	UD	10	0.13	1.10	mg/Kg	11/25/25 17:44	PB170706
95-95-4	2,4,5-Trichlorophenol	1.10	UD	10	0.20	1.10	mg/Kg	11/25/25 17:44	PB170706
92-52-4	1,1-Biphenyl	0.51	JD	10	0.15	1.10	mg/Kg	11/25/25 17:44	PB170706
91-58-7	2-Chloronaphthalene	1.10	UD	10	0.15	1.10	mg/Kg	11/25/25 17:44	PB170706
88-74-4	2-Nitroaniline	1.10	UD	10	0.32	1.10	mg/Kg	11/25/25 17:44	PB170706
131-11-3	Dimethylphthalate	1.10	UD	10	0.18	1.10	mg/Kg	11/25/25 17:44	PB170706
208-96-8	Acenaphthylene	0.93	JD	10	0.20	1.10	mg/Kg	11/25/25 17:44	PB170706
606-20-2	2,6-Dinitrotoluene	1.10	UD	10	0.23	1.10	mg/Kg	11/25/25 17:44	PB170706
99-09-2	3-Nitroaniline	1.10	UD	10	0.31	1.10	mg/Kg	11/25/25 17:44	PB170706
83-32-9	Acenaphthene	1.00	JD	10	0.14	1.10	mg/Kg	11/25/25 17:44	PB170706
51-28-5	2,4-Dinitrophenol	2.20	UD	10	1.50	2.20	mg/Kg	11/25/25 17:44	PB170706
100-02-7	4-Nitrophenol	2.20	UD	10	0.72	2.20	mg/Kg	11/25/25 17:44	PB170706
132-64-9	Dibenzofuran	1.10	UD	10	0.15	1.10	mg/Kg	11/25/25 17:44	PB170706
121-14-2	2,4-Dinitrotoluene	1.10	UD	10	0.34	1.10	mg/Kg	11/25/25 17:44	PB170706
84-66-2	Diethylphthalate	1.10	UD	10	0.19	1.10	mg/Kg	11/25/25 17:44	PB170706
7005-72-3	4-Chlorophenyl-phenylether	1.10	UD	10	0.18	1.10	mg/Kg	11/25/25 17:44	PB170706
86-73-7	Fluorene	3.00	D	10	0.17	1.10	mg/Kg	11/25/25 17:44	PB170706
100-01-6	4-Nitroaniline	1.10	UD	10	0.43	1.10	mg/Kg	11/25/25 17:44	PB170706
534-52-1	4,6-Dinitro-2-methylphenol	2.20	UD	10	0.70	2.20	mg/Kg	11/25/25 17:44	PB170706

Report of Analysis

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Project:	PSEG Orange Gas	Date Received:	11/21/25
Client Sample ID:	RBR200028-RT5376-COMPD	SDG No.:	Q3710
Lab Sample ID:	Q3710-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
Sample Wt/Vol:	50.09 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541	Level:	LOW
		Final Vol:	1000 uL
		Prep Date:	11/24/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	1.10	UD	10	0.22	1.10	mg/Kg	11/25/25 17:44	PB170706
101-55-3	4-Bromophenyl-phenylether	1.10	UD	10	0.19	1.10	mg/Kg	11/25/25 17:44	PB170706
118-74-1	Hexachlorobenzene	1.10	UD	10	0.17	1.10	mg/Kg	11/25/25 17:44	PB170706
1912-24-9	Atrazine	1.10	UD	10	0.23	1.10	mg/Kg	11/25/25 17:44	PB170706
87-86-5	Pentachlorophenol	2.20	UD	10	0.35	2.20	mg/Kg	11/25/25 17:44	PB170706
85-01-8	Phenanthrene	8.30	D	10	0.14	1.10	mg/Kg	11/25/25 17:44	PB170706
120-12-7	Anthracene	1.60	D	10	0.22	1.10	mg/Kg	11/25/25 17:44	PB170706
86-74-8	Carbazole	1.10	UD	10	0.21	1.10	mg/Kg	11/25/25 17:44	PB170706
84-74-2	Di-n-butylphthalate	1.10	UD	10	0.32	1.10	mg/Kg	11/25/25 17:44	PB170706
206-44-0	Fluoranthene	4.00	D	10	0.20	1.10	mg/Kg	11/25/25 17:44	PB170706
129-00-0	Pyrene	4.90	D	10	0.24	1.10	mg/Kg	11/25/25 17:44	PB170706
85-68-7	Butylbenzylphthalate	1.10	UD	10	0.48	1.10	mg/Kg	11/25/25 17:44	PB170706
91-94-1	3,3-Dichlorobenzidine	2.20	UD	10	0.25	2.20	mg/Kg	11/25/25 17:44	PB170706
56-55-3	Benzo(a)anthracene	2.60	D	10	0.16	1.10	mg/Kg	11/25/25 17:44	PB170706
218-01-9	Chrysene	2.90	D	10	0.13	1.10	mg/Kg	11/25/25 17:44	PB170706
117-81-7	Bis(2-ethylhexyl)phthalate	1.10	UD	10	0.40	1.10	mg/Kg	11/25/25 17:44	PB170706
117-84-0	Di-n-octyl phthalate	2.20	UD	10	0.59	2.20	mg/Kg	11/25/25 17:44	PB170706
205-99-2	Benzo(b)fluoranthene	1.60	D	10	0.13	1.10	mg/Kg	11/25/25 17:44	PB170706
207-08-9	Benzo(k)fluoranthene	0.50	JD	10	0.15	1.10	mg/Kg	11/25/25 17:44	PB170706
50-32-8	Benzo(a)pyrene	1.90	D	10	0.20	1.10	mg/Kg	11/25/25 17:44	PB170706
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	JD	10	0.20	1.10	mg/Kg	11/25/25 17:44	PB170706
53-70-3	Dibenzo(a,h)anthracene	1.10	UD	10	0.19	1.10	mg/Kg	11/25/25 17:44	PB170706
191-24-2	Benzo(g,h,i)perylene	0.76	JD	10	0.17	1.10	mg/Kg	11/25/25 17:44	PB170706
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	UD	10	0.17	1.10	mg/Kg	11/25/25 17:44	PB170706
123-91-1	1,4-Dioxane	1.10	UD	10	0.31	1.10	mg/Kg	11/25/25 17:44	PB170706
58-90-2	2,3,4,6-Tetrachlorophenol	1.10	UD	10	0.19	1.10	mg/Kg	11/25/25 17:44	PB170706

SURROGATES

367-12-4	2-Fluorophenol	95.4		10 - 105	64%	SPK: 150
13127-88-3	Phenol-d6	92.3		10 - 103	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.6		10 - 108	58%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.8		10 - 108	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	66.1		10 - 116	44%	SPK: 150
1718-51-0	Terphenyl-d14	40.8		10 - 109	41%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	64700
1146-65-2	Naphthalene-d8	240000
15067-26-2	Acenaphthene-d10	119000
1517-22-2	Phenanthrene-d10	182000
1719-03-5	Chrysene-d12	168000
1520-96-3	Perylene-d12	218000

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Lab Sample ID:	Q3710-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
	Level: LOW	Test:	SVOC-TCL BNA -20
Sample Wt/Vol:	50.09 g		
	Final Vol: 1000 uL		
Prep Method :	SW3541		
	Prep Date: 11/24/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
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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