

Report of Analysis

Client: PSEG
Project: PSEG Orange Gas
Client Sample ID: WELD-SHOP-EXCAVATION
Lab Sample ID: Q3710-05
Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 50.03 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: 91.7
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	0.43	U	2	0.20	0.43	mg/Kg	11/25/25 00:12	PB170706
108-95-2	Phenol	0.22	U	2	0.029	0.22	mg/Kg	11/25/25 00:12	PB170706
111-44-4	bis(2-Chloroethyl)ether	0.22	U	2	0.032	0.22	mg/Kg	11/25/25 00:12	PB170706
95-57-8	2-Chlorophenol	0.22	U	2	0.032	0.22	mg/Kg	11/25/25 00:12	PB170706
95-48-7	2-Methylphenol	0.22	U	2	0.039	0.22	mg/Kg	11/25/25 00:12	PB170706
108-60-1	2,2-oxybis(1-Chloropropane)	0.22	U	2	0.049	0.22	mg/Kg	11/25/25 00:12	PB170706
98-86-2	Acetophenone	0.22	U	2	0.039	0.22	mg/Kg	11/25/25 00:12	PB170706
65794-96-9	3+4-Methylphenols	0.43	U	2	0.054	0.43	mg/Kg	11/25/25 00:12	PB170706
621-64-7	n-Nitroso-di-n-propylamine	0.10	U	2	0.062	0.10	mg/Kg	11/25/25 00:12	PB170706
67-72-1	Hexachloroethane	0.22	U	2	0.023	0.22	mg/Kg	11/25/25 00:12	PB170706
98-95-3	Nitrobenzene	0.22	U	2	0.024	0.22	mg/Kg	11/25/25 00:12	PB170706
78-59-1	Isophorone	0.22	U	2	0.043	0.22	mg/Kg	11/25/25 00:12	PB170706
88-75-5	2-Nitrophenol	0.22	U	2	0.076	0.22	mg/Kg	11/25/25 00:12	PB170706
105-67-9	2,4-Dimethylphenol	0.22	U	2	0.085	0.22	mg/Kg	11/25/25 00:12	PB170706
111-91-1	bis(2-Chloroethoxy)methane	0.22	U	2	0.040	0.22	mg/Kg	11/25/25 00:12	PB170706
120-83-2	2,4-Dichlorophenol	0.22	U	2	0.037	0.22	mg/Kg	11/25/25 00:12	PB170706
91-20-3	Naphthalene	0.43		2	0.030	0.22	mg/Kg	11/25/25 00:12	PB170706
106-47-8	4-Chloroaniline	0.22	U	2	0.046	0.22	mg/Kg	11/25/25 00:12	PB170706
87-68-3	Hexachlorobutadiene	0.22	U	2	0.033	0.22	mg/Kg	11/25/25 00:12	PB170706
105-60-2	Caprolactam	0.43	U	2	0.068	0.43	mg/Kg	11/25/25 00:12	PB170706
59-50-7	4-Chloro-3-methylphenol	0.22	U	2	0.038	0.22	mg/Kg	11/25/25 00:12	PB170706
91-57-6	2-Methylnaphthalene	0.38		2	0.034	0.22	mg/Kg	11/25/25 00:12	PB170706
77-47-4	Hexachlorocyclopentadiene	0.43	U	2	0.15	0.43	mg/Kg	11/25/25 00:12	PB170706
88-06-2	2,4,6-Trichlorophenol	0.22	U	2	0.026	0.22	mg/Kg	11/25/25 00:12	PB170706
95-95-4	2,4,5-Trichlorophenol	0.22	U	2	0.038	0.22	mg/Kg	11/25/25 00:12	PB170706
92-52-4	1,1-Biphenyl	0.22	U	2	0.029	0.22	mg/Kg	11/25/25 00:12	PB170706
91-58-7	2-Chloronaphthalene	0.22	U	2	0.029	0.22	mg/Kg	11/25/25 00:12	PB170706
88-74-4	2-Nitroaniline	0.22	U	2	0.063	0.22	mg/Kg	11/25/25 00:12	PB170706
131-11-3	Dimethylphthalate	0.22	U	2	0.035	0.22	mg/Kg	11/25/25 00:12	PB170706
208-96-8	Acenaphthylene	0.48		2	0.038	0.22	mg/Kg	11/25/25 00:12	PB170706
606-20-2	2,6-Dinitrotoluene	0.22	U	2	0.044	0.22	mg/Kg	11/25/25 00:12	PB170706
99-09-2	3-Nitroaniline	0.22	U	2	0.060	0.22	mg/Kg	11/25/25 00:12	PB170706
83-32-9	Acenaphthene	0.34		2	0.028	0.22	mg/Kg	11/25/25 00:12	PB170706
51-28-5	2,4-Dinitrophenol	0.43	U	2	0.30	0.43	mg/Kg	11/25/25 00:12	PB170706
100-02-7	4-Nitrophenol	0.43	U	2	0.14	0.43	mg/Kg	11/25/25 00:12	PB170706
132-64-9	Dibenzofuran	0.17	J	2	0.030	0.22	mg/Kg	11/25/25 00:12	PB170706
121-14-2	2,4-Dinitrotoluene	0.22	U	2	0.066	0.22	mg/Kg	11/25/25 00:12	PB170706
84-66-2	Diethylphthalate	0.22	U	2	0.037	0.22	mg/Kg	11/25/25 00:12	PB170706
7005-72-3	4-Chlorophenyl-phenylether	0.22	U	2	0.035	0.22	mg/Kg	11/25/25 00:12	PB170706
86-73-7	Fluorene	0.58		2	0.033	0.22	mg/Kg	11/25/25 00:12	PB170706
100-01-6	4-Nitroaniline	0.22	U	2	0.084	0.22	mg/Kg	11/25/25 00:12	PB170706
534-52-1	4,6-Dinitro-2-methylphenol	0.43	U	2	0.13	0.43	mg/Kg	11/25/25 00:12	PB170706

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Project:	PSEG Orange Gas	Date Received:	11/21/25
Client Sample ID:	WELD-SHOP-EXCAVATION	SDG No.:	Q3710
Lab Sample ID:	Q3710-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.7
Sample Wt/Vol:	50.03 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	0.22	U	2	0.043	0.22	mg/Kg	11/25/25 00:12	PB170706
101-55-3	4-Bromophenyl-phenylether	0.22	U	2	0.036	0.22	mg/Kg	11/25/25 00:12	PB170706
118-74-1	Hexachlorobenzene	0.22	U	2	0.033	0.22	mg/Kg	11/25/25 00:12	PB170706
1912-24-9	Atrazine	0.22	U	2	0.045	0.22	mg/Kg	11/25/25 00:12	PB170706
87-86-5	Pentachlorophenol	0.43	U	2	0.067	0.43	mg/Kg	11/25/25 00:12	PB170706
85-01-8	Phenanthrene	3.00		2	0.027	0.22	mg/Kg	11/25/25 00:12	PB170706
120-12-7	Anthracene	0.78		2	0.044	0.22	mg/Kg	11/25/25 00:12	PB170706
86-74-8	Carbazole	0.37		2	0.041	0.22	mg/Kg	11/25/25 00:12	PB170706
84-74-2	Di-n-butylphthalate	0.22	U	2	0.063	0.22	mg/Kg	11/25/25 00:12	PB170706
206-44-0	Fluoranthene	4.60	E	2	0.039	0.22	mg/Kg	11/25/25 00:12	PB170706
129-00-0	Pyrene	4.00	E	2	0.047	0.22	mg/Kg	11/25/25 00:12	PB170706
85-68-7	Butylbenzylphthalate	0.22	U	2	0.093	0.22	mg/Kg	11/25/25 00:12	PB170706
91-94-1	3,3-Dichlorobenzidine	0.43	U	2	0.048	0.43	mg/Kg	11/25/25 00:12	PB170706
56-55-3	Benzo(a)anthracene	2.60		2	0.030	0.22	mg/Kg	11/25/25 00:12	PB170706
218-01-9	Chrysene	2.50		2	0.026	0.22	mg/Kg	11/25/25 00:12	PB170706
117-81-7	Bis(2-ethylhexyl)phthalate	0.22	U	2	0.077	0.22	mg/Kg	11/25/25 00:12	PB170706
117-84-0	Di-n-octyl phthalate	0.43	U	2	0.11	0.43	mg/Kg	11/25/25 00:12	PB170706
205-99-2	Benzo(b)fluoranthene	2.90		2	0.025	0.22	mg/Kg	11/25/25 00:12	PB170706
207-08-9	Benzo(k)fluoranthene	1.10		2	0.029	0.22	mg/Kg	11/25/25 00:12	PB170706
50-32-8	Benzo(a)pyrene	2.20		2	0.039	0.22	mg/Kg	11/25/25 00:12	PB170706
193-39-5	Indeno(1,2,3-cd)pyrene	0.90		2	0.038	0.22	mg/Kg	11/25/25 00:12	PB170706
53-70-3	Dibenzo(a,h)anthracene	0.30		2	0.036	0.22	mg/Kg	11/25/25 00:12	PB170706
191-24-2	Benzo(g,h,i)perylene	1.20		2	0.034	0.22	mg/Kg	11/25/25 00:12	PB170706
95-94-3	1,2,4,5-Tetrachlorobenzene	0.22	U	2	0.034	0.22	mg/Kg	11/25/25 00:12	PB170706
123-91-1	1,4-Dioxane	0.22	U	2	0.059	0.22	mg/Kg	11/25/25 00:12	PB170706
58-90-2	2,3,4,6-Tetrachlorophenol	0.22	U	2	0.036	0.22	mg/Kg	11/25/25 00:12	PB170706

SURROGATES

367-12-4	2-Fluorophenol	79.5		10 - 105	53%	SPK: 150
13127-88-3	Phenol-d6	77.1		10 - 103	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.7		10 - 108	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.5		10 - 108	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	73.9		10 - 116	49%	SPK: 150
1718-51-0	Terphenyl-d14	47.5		10 - 109	48%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	49100
1146-65-2	Naphthalene-d8	175000
15067-26-2	Acenaphthene-d10	90200
1517-22-2	Phenanthrene-d10	179000
1719-03-5	Chrysene-d12	143000
1520-96-3	Perylene-d12	119000

TENTATIVE IDENTIFIED COMPOUNDS

90-12-0	1-Methylnaphthalene	370	J	8.96	ug/Kg
000582-16-1	Naphthalene, 2,7-dimethyl-	320	J	9.56	ug/Kg

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Lab Sample ID:	Q3710-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.7
	Level: LOW	Test:	SVOC-TCL BNA -20
Sample Wt/Vol:	50.03 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
001730-37-6	9H-Fluorene, 1-methyl-	340	J			11.0	ug/Kg		
000132-65-0	Dibenzothiophene	380	J			11.3	ug/Kg		
016587-52-3	Dibenzothiophene, 3-methyl-	360	J			11.7	ug/Kg		
002531-84-2	Phenanthrene, 2-methyl-	1200	J			11.9	ug/Kg		
000832-69-9	Phenanthrene, 1-methyl-	330	J			12.0	ug/Kg		
000203-64-5	4H-Cyclopenta[def]phenanthrene	2400	J			12.0	ug/Kg		
000084-65-1	9,10-Anthracenedione	580	J			12.2	ug/Kg		
003674-65-5	Phenanthrene, 2,3-dimethyl-	450	J			12.3	ug/Kg		
003674-66-6	Phenanthrene, 2,5-dimethyl-	1400	J			12.5	ug/Kg		
005737-13-3	Cyclopenta(def)phenanthrenone	990	J			12.5	ug/Kg		
000238-84-6	11H-Benzo[a]fluorene	340	J			13.2	ug/Kg		
000192-97-2	Benzo[e]pyrene	1700	J			15.4	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