

Report of Analysis

Client: PSEG
Project: Oradell Gas and Appliance Service (OR)
Client Sample ID: OR-02-111425
Lab Sample ID: Q3648-01
Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 50.06 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 11/17/25

Date Collected: 11/14/25
Date Received: 11/14/25
SDG No.: Q3648
Matrix: SOIL
% Solid: 90.5
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	0.52	U	5	0.52	1.10	mg/Kg	11/17/25 14:59	PB170576
108-95-2	Phenol	0.073	U	5	0.073	0.56	mg/Kg	11/17/25 14:59	PB170576
111-44-4	bis(2-Chloroethyl)ether	0.081	U	5	0.081	0.56	mg/Kg	11/17/25 14:59	PB170576
95-57-8	2-Chlorophenol	0.081	U	5	0.081	0.56	mg/Kg	11/17/25 14:59	PB170576
95-48-7	2-Methylphenol	0.099	U	5	0.099	0.56	mg/Kg	11/17/25 14:59	PB170576
108-60-1	2,2-oxybis(1-Chloropropane)	0.12	U	5	0.12	0.56	mg/Kg	11/17/25 14:59	PB170576
98-86-2	Acetophenone	0.098	U	5	0.098	0.56	mg/Kg	11/17/25 14:59	PB170576
65794-96-9	3+4-Methylphenols	0.14	U	5	0.14	1.10	mg/Kg	11/17/25 14:59	PB170576
621-64-7	n-Nitroso-di-n-propylamine	0.16	U	5	0.16	0.26	mg/Kg	11/17/25 14:59	PB170576
67-72-1	Hexachloroethane	0.058	U	5	0.058	0.56	mg/Kg	11/17/25 14:59	PB170576
98-95-3	Nitrobenzene	0.061	U	5	0.061	0.56	mg/Kg	11/17/25 14:59	PB170576
78-59-1	Isophorone	0.11	U	5	0.11	0.56	mg/Kg	11/17/25 14:59	PB170576
88-75-5	2-Nitrophenol	0.19	U	5	0.19	0.56	mg/Kg	11/17/25 14:59	PB170576
105-67-9	2,4-Dimethylphenol	0.21	U	5	0.21	0.56	mg/Kg	11/17/25 14:59	PB170576
111-91-1	bis(2-Chloroethoxy)methane	0.10	U	5	0.10	0.56	mg/Kg	11/17/25 14:59	PB170576
120-83-2	2,4-Dichlorophenol	0.094	U	5	0.094	0.56	mg/Kg	11/17/25 14:59	PB170576
91-20-3	Naphthalene	1.50		5	0.075	0.56	mg/Kg	11/17/25 14:59	PB170576
106-47-8	4-Chloroaniline	0.12	U	5	0.12	0.56	mg/Kg	11/17/25 14:59	PB170576
87-68-3	Hexachlorobutadiene	0.084	U	5	0.084	0.56	mg/Kg	11/17/25 14:59	PB170576
105-60-2	Caprolactam	0.17	U	5	0.17	1.10	mg/Kg	11/17/25 14:59	PB170576
59-50-7	4-Chloro-3-methylphenol	0.095	U	5	0.095	0.56	mg/Kg	11/17/25 14:59	PB170576
91-57-6	2-Methylnaphthalene	1.30		5	0.085	0.56	mg/Kg	11/17/25 14:59	PB170576
77-47-4	Hexachlorocyclopentadiene	0.38	U	5	0.38	1.10	mg/Kg	11/17/25 14:59	PB170576
88-06-2	2,4,6-Trichlorophenol	0.066	U	5	0.066	0.56	mg/Kg	11/17/25 14:59	PB170576
95-95-4	2,4,5-Trichlorophenol	0.096	U	5	0.096	0.56	mg/Kg	11/17/25 14:59	PB170576
92-52-4	1,1-Biphenyl	0.34	J	5	0.072	0.56	mg/Kg	11/17/25 14:59	PB170576
91-58-7	2-Chloronaphthalene	0.075	U	5	0.075	0.56	mg/Kg	11/17/25 14:59	PB170576
88-74-4	2-Nitroaniline	0.16	U	5	0.16	0.56	mg/Kg	11/17/25 14:59	PB170576
131-11-3	Dimethylphthalate	0.090	U	5	0.090	0.56	mg/Kg	11/17/25 14:59	PB170576
208-96-8	Acenaphthylene	0.77		5	0.096	0.56	mg/Kg	11/17/25 14:59	PB170576
606-20-2	2,6-Dinitrotoluene	0.11	U	5	0.11	0.56	mg/Kg	11/17/25 14:59	PB170576
99-09-2	3-Nitroaniline	0.15	U	5	0.15	0.56	mg/Kg	11/17/25 14:59	PB170576
83-32-9	Acenaphthene	2.50		5	0.071	0.56	mg/Kg	11/17/25 14:59	PB170576
51-28-5	2,4-Dinitrophenol	0.76	U	5	0.76	1.10	mg/Kg	11/17/25 14:59	PB170576
100-02-7	4-Nitrophenol	0.35	U	5	0.35	1.10	mg/Kg	11/17/25 14:59	PB170576
132-64-9	Dibenzofuran	2.00		5	0.075	0.56	mg/Kg	11/17/25 14:59	PB170576
121-14-2	2,4-Dinitrotoluene	0.17	U	5	0.17	0.56	mg/Kg	11/17/25 14:59	PB170576
84-66-2	Diethylphthalate	0.094	U	5	0.094	0.56	mg/Kg	11/17/25 14:59	PB170576
7005-72-3	4-Chlorophenyl-phenylether	0.088	U	5	0.088	0.56	mg/Kg	11/17/25 14:59	PB170576
86-73-7	Fluorene	4.20		5	0.084	0.56	mg/Kg	11/17/25 14:59	PB170576
100-01-6	4-Nitroaniline	0.21	U	5	0.21	0.56	mg/Kg	11/17/25 14:59	PB170576
534-52-1	4,6-Dinitro-2-methylphenol	0.34	U	5	0.34	1.10	mg/Kg	11/17/25 14:59	PB170576

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Sample Wt/Vol: 50.06 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 11/17/25

Date Collected: 11/14/25
Date Received: 11/14/25
SDG No.: Q3648
Matrix: SOIL
% Solid: 90.5
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	0.11	U	5	0.11	0.56	mg/Kg	11/17/25 14:59	PB170576
101-55-3	4-Bromophenyl-phenylether	0.092	U	5	0.092	0.56	mg/Kg	11/17/25 14:59	PB170576
118-74-1	Hexachlorobenzene	0.084	U	5	0.084	0.56	mg/Kg	11/17/25 14:59	PB170576
1912-24-9	Atrazine	0.11	U	5	0.11	0.56	mg/Kg	11/17/25 14:59	PB170576
87-86-5	Pentachlorophenol	0.17	U	5	0.17	1.10	mg/Kg	11/17/25 14:59	PB170576
85-01-8	Phenanthrene	18.3	E	5	0.069	0.56	mg/Kg	11/17/25 14:59	PB170576
120-12-7	Anthracene	6.20		5	0.11	0.56	mg/Kg	11/17/25 14:59	PB170576
86-74-8	Carbazole	1.50		5	0.10	0.56	mg/Kg	11/17/25 14:59	PB170576
84-74-2	Di-n-butylphthalate	0.16	U	5	0.16	0.56	mg/Kg	11/17/25 14:59	PB170576
206-44-0	Fluoranthene	25.6	E	5	0.099	0.56	mg/Kg	11/17/25 14:59	PB170576
129-00-0	Pyrene	20.7	E	5	0.12	0.56	mg/Kg	11/17/25 14:59	PB170576
85-68-7	Butylbenzylphthalate	0.24	U	5	0.24	0.56	mg/Kg	11/17/25 14:59	PB170576
91-94-1	3,3-Dichlorobenzidine	0.12	U	5	0.12	1.10	mg/Kg	11/17/25 14:59	PB170576
56-55-3	Benzo(a)anthracene	14.4	E	5	0.076	0.56	mg/Kg	11/17/25 14:59	PB170576
218-01-9	Chrysene	12.2	E	5	0.066	0.56	mg/Kg	11/17/25 14:59	PB170576
117-81-7	Bis(2-ethylhexyl)phthalate	0.20	U	5	0.20	0.56	mg/Kg	11/17/25 14:59	PB170576
117-84-0	Di-n-octyl phthalate	0.29	U	5	0.29	1.10	mg/Kg	11/17/25 14:59	PB170576
205-99-2	Benzo(b)fluoranthene	14.7	E	5	0.063	0.56	mg/Kg	11/17/25 14:59	PB170576
207-08-9	Benzo(k)fluoranthene	7.70		5	0.074	0.56	mg/Kg	11/17/25 14:59	PB170576
50-32-8	Benzo(a)pyrene	12.6	E	5	0.098	0.56	mg/Kg	11/17/25 14:59	PB170576
193-39-5	Indeno(1,2,3-cd)pyrene	4.80		5	0.096	0.56	mg/Kg	11/17/25 14:59	PB170576
53-70-3	Dibenzo(a,h)anthracene	0.091	U	5	0.091	0.56	mg/Kg	11/17/25 14:59	PB170576
191-24-2	Benzo(g,h,i)perylene	5.60		5	0.085	0.56	mg/Kg	11/17/25 14:59	PB170576
95-94-3	1,2,4,5-Tetrachlorobenzene	0.085	U	5	0.085	0.56	mg/Kg	11/17/25 14:59	PB170576
123-91-1	1,4-Dioxane	0.15	U	5	0.15	0.56	mg/Kg	11/17/25 14:59	PB170576
58-90-2	2,3,4,6-Tetrachlorophenol	0.091	U	5	0.091	0.56	mg/Kg	11/17/25 14:59	PB170576

SURROGATES

367-12-4	2-Fluorophenol	78.4		10 - 105	52%	SPK: 150
13127-88-3	Phenol-d6	77.0		10 - 103	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.6		10 - 108	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.8		10 - 108	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.8		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	64.3		10 - 109	64%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	54200
1146-65-2	Naphthalene-d8	178000
15067-26-2	Acenaphthene-d10	85200
1517-22-2	Phenanthrene-d10	134000
1719-03-5	Chrysene-d12	95300
1520-96-3	Perylene-d12	91700

TENTATIVE IDENTIFIED COMPOUNDS

90-12-0	1-Methylnaphthalene	1100	J	8.96	ug/Kg
000571-61-9	Naphthalene, 1,5-dimethyl-	920	J	9.49	ug/Kg

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Lab Sample ID:	Q3648-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
Sample Wt/Vol:	50.06 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level: LOW		
	Final Vol: 1000 uL		
	Prep Date: 11/17/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
000582-16-1	Naphthalene, 2,7-dimethyl-	1200	J			9.56	ug/Kg		
000573-98-8	Naphthalene, 1,2-dimethyl-	800	J			9.68	ug/Kg		
000629-62-9	Pentadecane	630	J			9.83	ug/Kg		
002245-38-7	Naphthalene, 1,6,7-trimethyl-	460	J			10.2	ug/Kg		
000544-76-3	Hexadecane	1300	J			10.3	ug/Kg		
007320-53-8	Dibenzofuran, 4-methyl-	980	J			10.6	ug/Kg		
002531-84-2	Phenanthrene, 2-methyl-	600	J			11.9	ug/Kg		
000203-64-5	4H-Cyclopenta[def]phenanthrene	820	J			12.0	ug/Kg		
002381-21-7	Pyrene, 1-methyl-	480	J			13.1	ug/Kg		
000243-17-4	11H-Benzo[b]fluorene	750	J			13.2	ug/Kg		
000238-84-6	11H-Benzo[a]fluorene	420	J			13.2	ug/Kg		
000192-97-2	Benzo[e]pyrene	7500	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