

Report of Analysis

Client: PSEG
Project: New Brunswick Gas and Appliance Service (NB)
Client Sample ID: NB-07-111725
Lab Sample ID: Q3658-01
Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 50.08 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 11/18/25

Date Collected: 11/17/25
Date Received: 11/17/25
SDG No.: Q3658
Matrix: SOIL
% Solid: 90.9
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	0.10	U	1	0.10	0.22	mg/Kg	11/18/25 15:40	PB170598
108-95-2	Phenol	0.015	U	1	0.015	0.11	mg/Kg	11/18/25 15:40	PB170598
111-44-4	bis(2-Chloroethyl)ether	0.016	U	1	0.016	0.11	mg/Kg	11/18/25 15:40	PB170598
95-57-8	2-Chlorophenol	0.016	U	1	0.016	0.11	mg/Kg	11/18/25 15:40	PB170598
95-48-7	2-Methylphenol	0.020	U	1	0.020	0.11	mg/Kg	11/18/25 15:40	PB170598
108-60-1	2,2-oxybis(1-Chloropropane)	0.025	U	1	0.025	0.11	mg/Kg	11/18/25 15:40	PB170598
98-86-2	Acetophenone	0.019	U	1	0.019	0.11	mg/Kg	11/18/25 15:40	PB170598
65794-96-9	3+4-Methylphenols	0.027	U	1	0.027	0.22	mg/Kg	11/18/25 15:40	PB170598
621-64-7	n-Nitroso-di-n-propylamine	0.031	U	1	0.031	0.053	mg/Kg	11/18/25 15:40	PB170598
67-72-1	Hexachloroethane	0.012	U	1	0.012	0.11	mg/Kg	11/18/25 15:40	PB170598
98-95-3	Nitrobenzene	0.012	U	1	0.012	0.11	mg/Kg	11/18/25 15:40	PB170598
78-59-1	Isophorone	0.022	U	1	0.022	0.11	mg/Kg	11/18/25 15:40	PB170598
88-75-5	2-Nitrophenol	0.038	U	1	0.038	0.11	mg/Kg	11/18/25 15:40	PB170598
105-67-9	2,4-Dimethylphenol	0.043	U	1	0.043	0.11	mg/Kg	11/18/25 15:40	PB170598
111-91-1	bis(2-Chloroethoxy)methane	0.020	U	1	0.020	0.11	mg/Kg	11/18/25 15:40	PB170598
120-83-2	2,4-Dichlorophenol	0.019	U	1	0.019	0.11	mg/Kg	11/18/25 15:40	PB170598
91-20-3	Naphthalene	0.015	U	1	0.015	0.11	mg/Kg	11/18/25 15:40	PB170598
106-47-8	4-Chloroaniline	0.023	U	1	0.023	0.11	mg/Kg	11/18/25 15:40	PB170598
87-68-3	Hexachlorobutadiene	0.017	U	1	0.017	0.11	mg/Kg	11/18/25 15:40	PB170598
105-60-2	Caprolactam	0.034	U	1	0.034	0.22	mg/Kg	11/18/25 15:40	PB170598
59-50-7	4-Chloro-3-methylphenol	0.019	U	1	0.019	0.11	mg/Kg	11/18/25 15:40	PB170598
91-57-6	2-Methylnaphthalene	0.017	U	1	0.017	0.11	mg/Kg	11/18/25 15:40	PB170598
77-47-4	Hexachlorocyclopentadiene	0.076	U	1	0.076	0.22	mg/Kg	11/18/25 15:40	PB170598
88-06-2	2,4,6-Trichlorophenol	0.013	U	1	0.013	0.11	mg/Kg	11/18/25 15:40	PB170598
95-95-4	2,4,5-Trichlorophenol	0.019	U	1	0.019	0.11	mg/Kg	11/18/25 15:40	PB170598
92-52-4	1,1-Biphenyl	0.014	U	1	0.014	0.11	mg/Kg	11/18/25 15:40	PB170598
91-58-7	2-Chloronaphthalene	0.015	U	1	0.015	0.11	mg/Kg	11/18/25 15:40	PB170598
88-74-4	2-Nitroaniline	0.032	U	1	0.032	0.11	mg/Kg	11/18/25 15:40	PB170598
131-11-3	Dimethylphthalate	0.018	U	1	0.018	0.11	mg/Kg	11/18/25 15:40	PB170598
208-96-8	Acenaphthylene	0.019	U	1	0.019	0.11	mg/Kg	11/18/25 15:40	PB170598
606-20-2	2,6-Dinitrotoluene	0.022	U	1	0.022	0.11	mg/Kg	11/18/25 15:40	PB170598
99-09-2	3-Nitroaniline	0.030	U	1	0.030	0.11	mg/Kg	11/18/25 15:40	PB170598
83-32-9	Acenaphthene	0.014	U	1	0.014	0.11	mg/Kg	11/18/25 15:40	PB170598
51-28-5	2,4-Dinitrophenol	0.15	U	1	0.15	0.22	mg/Kg	11/18/25 15:40	PB170598
100-02-7	4-Nitrophenol	0.071	U	1	0.071	0.22	mg/Kg	11/18/25 15:40	PB170598
132-64-9	Dibenzofuran	0.015	U	1	0.015	0.11	mg/Kg	11/18/25 15:40	PB170598
121-14-2	2,4-Dinitrotoluene	0.033	U	1	0.033	0.11	mg/Kg	11/18/25 15:40	PB170598
84-66-2	Diethylphthalate	0.019	U	1	0.019	0.11	mg/Kg	11/18/25 15:40	PB170598
7005-72-3	4-Chlorophenyl-phenylether	0.018	U	1	0.018	0.11	mg/Kg	11/18/25 15:40	PB170598
86-73-7	Fluorene	0.017	U	1	0.017	0.11	mg/Kg	11/18/25 15:40	PB170598
100-01-6	4-Nitroaniline	0.042	U	1	0.042	0.11	mg/Kg	11/18/25 15:40	PB170598
534-52-1	4,6-Dinitro-2-methylphenol	0.068	U	1	0.068	0.22	mg/Kg	11/18/25 15:40	PB170598

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SDG No.: Q3658
Matrix: SOIL
% Solid: 90.9
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	0.022	U	1	0.022	0.11	mg/Kg	11/18/25 15:40	PB170598
101-55-3	4-Bromophenyl-phenylether	0.018	U	1	0.018	0.11	mg/Kg	11/18/25 15:40	PB170598
118-74-1	Hexachlorobenzene	0.017	U	1	0.017	0.11	mg/Kg	11/18/25 15:40	PB170598
1912-24-9	Atrazine	0.022	U	1	0.022	0.11	mg/Kg	11/18/25 15:40	PB170598
87-86-5	Pentachlorophenol	0.034	U	1	0.034	0.22	mg/Kg	11/18/25 15:40	PB170598
85-01-8	Phenanthrene	0.014	U	1	0.014	0.11	mg/Kg	11/18/25 15:40	PB170598
120-12-7	Anthracene	0.022	U	1	0.022	0.11	mg/Kg	11/18/25 15:40	PB170598
86-74-8	Carbazole	0.021	U	1	0.021	0.11	mg/Kg	11/18/25 15:40	PB170598
84-74-2	Di-n-butylphthalate	0.032	U	1	0.032	0.11	mg/Kg	11/18/25 15:40	PB170598
206-44-0	Fluoranthene	0.077	J	1	0.020	0.11	mg/Kg	11/18/25 15:40	PB170598
129-00-0	Pyrene	0.085	J	1	0.024	0.11	mg/Kg	11/18/25 15:40	PB170598
85-68-7	Butylbenzylphthalate	0.047	U	1	0.047	0.11	mg/Kg	11/18/25 15:40	PB170598
91-94-1	3,3-Dichlorobenzidine	0.024	U	1	0.024	0.22	mg/Kg	11/18/25 15:40	PB170598
56-55-3	Benzo(a)anthracene	0.015	U	1	0.015	0.11	mg/Kg	11/18/25 15:40	PB170598
218-01-9	Chrysene	0.055	J	1	0.013	0.11	mg/Kg	11/18/25 15:40	PB170598
117-81-7	Bis(2-ethylhexyl)phthalate	0.039	U	1	0.039	0.11	mg/Kg	11/18/25 15:40	PB170598
117-84-0	Di-n-octyl phthalate	0.057	U	1	0.057	0.22	mg/Kg	11/18/25 15:40	PB170598
205-99-2	Benzo(b)fluoranthene	0.081	J	1	0.013	0.11	mg/Kg	11/18/25 15:40	PB170598
207-08-9	Benzo(k)fluoranthene	0.015	U	1	0.015	0.11	mg/Kg	11/18/25 15:40	PB170598
50-32-8	Benzo(a)pyrene	0.049	J	1	0.019	0.11	mg/Kg	11/18/25 15:40	PB170598
193-39-5	Indeno(1,2,3-cd)pyrene	0.046	J	1	0.019	0.11	mg/Kg	11/18/25 15:40	PB170598
53-70-3	Dibenzo(a,h)anthracene	0.018	U	1	0.018	0.11	mg/Kg	11/18/25 15:40	PB170598
191-24-2	Benzo(g,h,i)perylene	0.061	J	1	0.017	0.11	mg/Kg	11/18/25 15:40	PB170598
95-94-3	1,2,4,5-Tetrachlorobenzene	0.017	U	1	0.017	0.11	mg/Kg	11/18/25 15:40	PB170598
123-91-1	1,4-Dioxane	0.030	U	1	0.030	0.11	mg/Kg	11/18/25 15:40	PB170598
58-90-2	2,3,4,6-Tetrachlorophenol	0.018	U	1	0.018	0.11	mg/Kg	11/18/25 15:40	PB170598

SURROGATES

367-12-4	2-Fluorophenol	131		10 - 105	87%	SPK: 150
13127-88-3	Phenol-d6	139		10 - 103	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.3		10 - 108	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.3		10 - 108	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		10 - 116	85%	SPK: 150
1718-51-0	Terphenyl-d14	94.2		10 - 109	94%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	40800
1146-65-2	Naphthalene-d8	162000
15067-26-2	Acenaphthene-d10	134000
1517-22-2	Phenanthrene-d10	318000
1719-03-5	Chrysene-d12	331000
1520-96-3	Perylene-d12	348000

TENTATIVE IDENTIFIED COMPOUNDS

000080-56-8	.alpha.-Pinene	260	J	6.84	ug/Kg
000127-91-3	.beta.-Pinene	360	J	7.61	ug/Kg

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Lab Sample ID:	Q3658-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.9
	Level: LOW	Test:	SVOC-TCL BNA -20
Sample Wt/Vol:	50.08 g		
	Final Vol: 1000 uL		
Prep Method :	SW3541		
	Prep Date: 11/18/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
000119-61-9	Benzophenone	250	J			16.1	ug/Kg		
000057-10-3	n-Hexadecanoic acid	400	J			18.4	ug/Kg		
000057-11-4	Octadecanoic acid	120	J			19.6	ug/Kg		
079392-43-1	Octadecyl trifluoroacetate	150	J			21.4	ug/Kg		
000629-92-5	Nonadecane	83.7	J			22.6	ug/Kg		
014811-95-1	1,19-Eicosadiene	140	J			23.6	ug/Kg		
013475-75-7	Pentadecane, 8-hexyl-	270	J			24.1	ug/Kg		
015594-90-8	1-Heneicosanol	240	J			24.1	ug/Kg		
015874-03-0	Hexadecane, 6,11-dipentyl-	170	J			26.2	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