

Report of Analysis

Client:	PSEG	Date Collected:	04/22/25
Project:	New Brunswick Gas and Appliance Service MA00006789	Date Received:	04/22/25
Client Sample ID:	NB-08-04222025	SDG No.:	Q1854
Lab Sample ID:	Q1854-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.02 Units: g	Final Vol:	1000 uL
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 :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050022.D	2	04/23/25 09:20	04/23/25 20:29	PB167711

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	0.22	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.032	U	0.032	0.22	mg/Kg
95-57-8	2-Chlorophenol	0.032	U	0.032	0.22	mg/Kg
95-48-7	2-Methylphenol	0.040	U	0.040	0.22	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.050	U	0.050	0.22	mg/Kg
98-86-2	Acetophenone	0.039	U	0.039	0.22	mg/Kg
65794-96-9	3+4-Methylphenols	0.054	U	0.054	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	0.22	mg/Kg
98-95-3	Nitrobenzene	0.024	U	0.024	0.22	mg/Kg
78-59-1	Isophorone	0.043	U	0.043	0.22	mg/Kg
88-75-5	2-Nitrophenol	0.077	U	0.077	0.22	mg/Kg
105-67-9	2,4-Dimethylphenol	0.086	U	0.086	0.22	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.041	U	0.041	0.22	mg/Kg
120-83-2	2,4-Dichlorophenol	0.037	U	0.037	0.22	mg/Kg
91-20-3	Naphthalene	0.030	U	0.030	0.22	mg/Kg
106-47-8	4-Chloroaniline	0.047	U	0.047	0.22	mg/Kg
87-68-3	Hexachlorobutadiene	0.034	U	0.034	0.22	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	0.22	mg/Kg
91-57-6	2-Methylnaphthalene	0.034	U	0.034	0.22	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	0.22	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.039	U	0.039	0.22	mg/Kg
92-52-4	1,1-Biphenyl	0.029	U	0.029	0.22	mg/Kg
91-58-7	2-Chloronaphthalene	0.030	U	0.030	0.22	mg/Kg
88-74-4	2-Nitroaniline	0.064	U	0.064	0.22	mg/Kg
131-11-3	Dimethylphthalate	0.036	U	0.036	0.22	mg/Kg

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208-96-8	Acenaphthylene	0.13	J	0.038	0.22	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.044	U	0.044	0.22	mg/Kg
99-09-2	3-Nitroaniline	0.061	U	0.061	0.22	mg/Kg
83-32-9	Acenaphthene	0.028	U	0.028	0.22	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	0.22	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.066	U	0.066	0.22	mg/Kg
84-66-2	Diethylphthalate	0.037	U	0.037	0.22	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.035	U	0.035	0.22	mg/Kg
86-73-7	Fluorene	0.034	U	0.034	0.22	mg/Kg
100-01-6	4-Nitroaniline	0.085	U	0.085	0.22	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	0.22	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.037	U	0.037	0.22	mg/Kg
118-74-1	Hexachlorobenzene	0.034	U	0.034	0.22	mg/Kg
1912-24-9	Atrazine	0.045	U	0.045	0.22	mg/Kg
87-86-5	Pentachlorophenol	0.068	U	0.068	0.44	mg/Kg
85-01-8	Phenanthrene	0.14	J	0.028	0.22	mg/Kg
120-12-7	Anthracene	0.15	J	0.044	0.22	mg/Kg
86-74-8	Carbazole	0.041	U	0.041	0.22	mg/Kg
84-74-2	Di-n-butylphthalate	0.063	U	0.063	0.22	mg/Kg
206-44-0	Fluoranthene	0.50		0.040	0.22	mg/Kg
129-00-0	Pyrene	0.56		0.048	0.22	mg/Kg
85-68-7	Butylbenzylphthalate	0.094	U	0.094	0.22	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.049	U	0.049	0.44	mg/Kg
56-55-3	Benzo(a)anthracene	0.41		0.030	0.22	mg/Kg
218-01-9	Chrysene	0.42		0.026	0.22	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.078	U	0.078	0.22	mg/Kg
117-84-0	Di-n-octyl phthalate	0.11	U	0.11	0.44	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.80		0.025	0.22	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.29		0.030	0.22	mg/Kg
50-32-8	Benzo(a)pyrene	0.64		0.039	0.22	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.38		0.039	0.22	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.11	J	0.036	0.22	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.47		0.034	0.22	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	U	0.034	0.22	mg/Kg
123-91-1	1,4-Dioxane	0.060	U	0.060	0.22	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	0.036	0.22	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	77.3		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	74.4		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.9		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.2		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.0		10 - 116	53%	SPK: 150
1718-51-0	Terphenyl-d14	55.8		10 - 105	56%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	312000	7.763
1146-65-2	Naphthalene-d8	1070000	10.557
15067-26-2	Acenaphthene-d10	721000	14.41
1517-22-2	Phenanthrene-d10	1480000	17.156
1719-03-5	Chrysene-d12	1440000	21.397
1520-96-3	Perylene-d12	1450000	24.397

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	280	A	4.88	ug/Kg
000119-61-9	Benzophenone	200	J	15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J	18.1	ug/Kg
000192-97-2	Benzo[e]pyrene	630	J	24.1	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