

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	Hamilton M&R	Date Received:	04/17/25
Client Sample ID:	SOIL-1	SDG No.:	Q1830
Lab Sample ID:	Q1830-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.8
Sample Wt/Vol:	50.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049968.D	1	04/18/25 09:35	04/18/25 16:27	PB167645

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.22	U	0.10	0.22	mg/Kg
108-95-2	Phenol	0.11	U	0.015	0.11	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.11	U	0.016	0.11	mg/Kg
95-57-8	2-Chlorophenol	0.11	U	0.016	0.11	mg/Kg
95-48-7	2-Methylphenol	0.11	U	0.020	0.11	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.11	U	0.025	0.11	mg/Kg
98-86-2	Acetophenone	0.11	U	0.020	0.11	mg/Kg
65794-96-9	3+4-Methylphenols	0.22	U	0.028	0.22	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.053	U	0.032	0.053	mg/Kg
67-72-1	Hexachloroethane	0.11	U	0.012	0.11	mg/Kg
98-95-3	Nitrobenzene	0.11	U	0.012	0.11	mg/Kg
78-59-1	Isophorone	0.11	U	0.022	0.11	mg/Kg
88-75-5	2-Nitrophenol	0.11	U	0.039	0.11	mg/Kg
105-67-9	2,4-Dimethylphenol	0.11	U	0.043	0.11	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.11	U	0.021	0.11	mg/Kg
120-83-2	2,4-Dichlorophenol	0.11	U	0.019	0.11	mg/Kg
91-20-3	Naphthalene	0.11	U	0.015	0.11	mg/Kg
106-47-8	4-Chloroaniline	0.11	U	0.024	0.11	mg/Kg
87-68-3	Hexachlorobutadiene	0.11	U	0.017	0.11	mg/Kg
105-60-2	Caprolactam	0.22	U	0.035	0.22	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.11	U	0.019	0.11	mg/Kg
91-57-6	2-Methylnaphthalene	0.11	U	0.017	0.11	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.22	U	0.078	0.22	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.11	U	0.013	0.11	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.11	U	0.019	0.11	mg/Kg
92-52-4	1,1-Biphenyl	0.11	U	0.015	0.11	mg/Kg
91-58-7	2-Chloronaphthalene	0.11	U	0.015	0.11	mg/Kg
88-74-4	2-Nitroaniline	0.11	U	0.032	0.11	mg/Kg
131-11-3	Dimethylphthalate	0.11	U	0.018	0.11	mg/Kg

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Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		Final Vol:	1000
		PH :	

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208-96-8	Acenaphthylene	0.19		0.019	0.11	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.11	U	0.022	0.11	mg/Kg
99-09-2	3-Nitroaniline	0.11	U	0.031	0.11	mg/Kg
83-32-9	Acenaphthene	0.11	U	0.014	0.11	mg/Kg
51-28-5	2,4-Dinitrophenol	0.22	U	0.15	0.22	mg/Kg
100-02-7	4-Nitrophenol	0.22	U	0.072	0.22	mg/Kg
132-64-9	Dibenzofuran	0.11	U	0.015	0.11	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.11	U	0.034	0.11	mg/Kg
84-66-2	Diethylphthalate	0.11	U	0.019	0.11	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.11	U	0.018	0.11	mg/Kg
86-73-7	Fluorene	0.061	J	0.017	0.11	mg/Kg
100-01-6	4-Nitroaniline	0.11	U	0.043	0.11	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.22	U	0.069	0.22	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.11	U	0.022	0.11	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.11	U	0.019	0.11	mg/Kg
118-74-1	Hexachlorobenzene	0.11	U	0.017	0.11	mg/Kg
1912-24-9	Atrazine	0.11	U	0.023	0.11	mg/Kg
87-86-5	Pentachlorophenol	0.22	U	0.034	0.22	mg/Kg
85-01-8	Phenanthrene	0.45		0.014	0.11	mg/Kg
120-12-7	Anthracene	0.13		0.022	0.11	mg/Kg
86-74-8	Carbazole	0.11	U	0.021	0.11	mg/Kg
84-74-2	Di-n-butylphthalate	0.11	U	0.032	0.11	mg/Kg
206-44-0	Fluoranthene	0.63		0.020	0.11	mg/Kg
129-00-0	Pyrene	0.86		0.024	0.11	mg/Kg
85-68-7	Butylbenzylphthalate	0.11	U	0.048	0.11	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.22	U	0.025	0.22	mg/Kg
56-55-3	Benzo(a)anthracene	0.39		0.015	0.11	mg/Kg
218-01-9	Chrysene	0.46		0.013	0.11	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.11	U	0.040	0.11	mg/Kg
117-84-0	Di-n-octyl phthalate	0.22	U	0.058	0.22	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.48		0.013	0.11	mg/Kg

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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
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207-08-9	Benzo(k)fluoranthene	0.17		0.015	0.11	mg/Kg
50-32-8	Benzo(a)pyrene	0.43		0.020	0.11	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.21		0.019	0.11	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.072	J	0.018	0.11	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.26		0.017	0.11	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.11	U	0.017	0.11	mg/Kg
123-91-1	1,4-Dioxane	0.11	U	0.030	0.11	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.11	U	0.018	0.11	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	65.0		18 - 112	43%	SPK: 150
13127-88-3	Phenol-d6	65.6		15 - 107	44%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.5		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.2		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	66.7		10 - 116	44%	SPK: 150
1718-51-0	Terphenyl-d14	53.6		10 - 105	54%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	575000	7.769
1146-65-2	Naphthalene-d8	1930000	10.557
15067-26-2	Acenaphthene-d10	1120000	14.41
1517-22-2	Phenanthrene-d10	1840000	17.157
1719-03-5	Chrysene-d12	1560000	21.392
1520-96-3	Perylene-d12	1660000	24.397

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	190	A	4.89	ug/Kg
000470-82-6	Eucalyptol	110	J	8.07	ug/Kg
000119-61-9	Benzophenone	280	J	15.8	ug/Kg
000483-78-3	Naphthalene, 1,6-dimethyl-4-(1-met	100	J	16.1	ug/Kg
000112-39-0	Hexadecanoic acid, methyl ester	200	J	17.8	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	230	J	18.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	220	J	18.1	ug/Kg

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000610-48-0	Anthracene, 1-methyl-	210	J		18.1	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	320	J		18.2	ug/Kg
000779-02-2	Anthracene, 9-methyl-	160	J		18.3	ug/Kg
001576-67-6	Phenanthrene, 3,6-dimethyl-	100	J		18.8	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	300	J		19.0	ug/Kg
000112-62-9	9-Octadecenoic acid (Z)-, methyl e	620	J		19.0	ug/Kg
007469-40-1	Naphthalene, 1,2-dihydro-4-phenyl-	110	J		19.0	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	130	J		19.1	ug/Kg
000112-61-8	Methyl stearate	130	J		19.1	ug/Kg
002381-21-7	Pyrene, 1-methyl-	100	J		19.9	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	110	J		20.1	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	91.5	J		21.1	ug/Kg
000192-97-2	Benzo[e]pyrene	360	J		24.1	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