

Report of Analysis

Client:	PSEG	Date Collected:	04/07/25
Project:	Trenton District Headquarters	Date Received:	04/07/25
Client Sample ID:	ARS20-0008	SDG No.:	Q1747
Lab Sample ID:	Q1747-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.1
Sample Wt/Vol:	50.03	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BP024241.D	1	04/08/25 08:59	04/09/25 19:03	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.097	U	0.097	0.21	mg/Kg
108-95-2	Phenol	0.014	U	0.014	0.11	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.015	U	0.015	0.11	mg/Kg
95-57-8	2-Chlorophenol	0.015	U	0.015	0.11	mg/Kg
95-48-7	2-Methylphenol	0.019	U	0.019	0.11	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.023	U	0.023	0.11	mg/Kg
98-86-2	Acetophenone	0.018	U	0.018	0.11	mg/Kg
65794-96-9	3+4-Methylphenols	0.026	U	0.026	0.21	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.030	U	0.030	0.050	mg/Kg
67-72-1	Hexachloroethane	0.011	U	0.011	0.11	mg/Kg
98-95-3	Nitrobenzene	0.011	U	0.011	0.11	mg/Kg
78-59-1	Isophorone	0.021	U	0.021	0.11	mg/Kg
88-75-5	2-Nitrophenol	0.036	U	0.036	0.11	mg/Kg
105-67-9	2,4-Dimethylphenol	0.040	U	0.040	0.11	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.019	U	0.019	0.11	mg/Kg
120-83-2	2,4-Dichlorophenol	0.018	U	0.018	0.11	mg/Kg
91-20-3	Naphthalene	0.014	U	0.014	0.11	mg/Kg
106-47-8	4-Chloroaniline	0.022	U	0.022	0.11	mg/Kg
87-68-3	Hexachlorobutadiene	0.016	U	0.016	0.11	mg/Kg
105-60-2	Caprolactam	0.033	U	0.033	0.21	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.018	U	0.018	0.11	mg/Kg
91-57-6	2-Methylnaphthalene	0.016	U	0.016	0.11	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.072	U	0.072	0.21	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.012	U	0.012	0.11	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.018	U	0.018	0.11	mg/Kg
92-52-4	1,1-Biphenyl	0.014	U	0.014	0.11	mg/Kg
91-58-7	2-Chloronaphthalene	0.014	U	0.014	0.11	mg/Kg
88-74-4	2-Nitroaniline	0.030	U	0.030	0.11	mg/Kg
131-11-3	Dimethylphthalate	0.017	U	0.017	0.11	mg/Kg

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208-96-8	Acenaphthylene	0.018	U	0.018	0.11	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.021	U	0.021	0.11	mg/Kg
99-09-2	3-Nitroaniline	0.029	U	0.029	0.11	mg/Kg
83-32-9	Acenaphthene	0.013	U	0.013	0.11	mg/Kg
51-28-5	2,4-Dinitrophenol	0.14	U	0.14	0.21	mg/Kg
100-02-7	4-Nitrophenol	0.067	U	0.067	0.21	mg/Kg
132-64-9	Dibenzofuran	0.014	U	0.014	0.11	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.031	U	0.031	0.11	mg/Kg
84-66-2	Diethylphthalate	0.018	U	0.018	0.11	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.017	U	0.017	0.11	mg/Kg
86-73-7	Fluorene	0.016	U	0.016	0.11	mg/Kg
100-01-6	4-Nitroaniline	0.040	U	0.040	0.11	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.064	U	0.064	0.21	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.021	U	0.021	0.11	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.017	U	0.017	0.11	mg/Kg
118-74-1	Hexachlorobenzene	0.016	U	0.016	0.11	mg/Kg
1912-24-9	Atrazine	0.021	U	0.021	0.11	mg/Kg
87-86-5	Pentachlorophenol	0.032	U	0.032	0.21	mg/Kg
85-01-8	Phenanthrene	0.013	U	0.013	0.11	mg/Kg
120-12-7	Anthracene	0.021	U	0.021	0.11	mg/Kg
86-74-8	Carbazole	0.020	U	0.020	0.11	mg/Kg
84-74-2	Di-n-butylphthalate	0.12		0.030	0.11	mg/Kg
206-44-0	Fluoranthene	0.019	U	0.019	0.11	mg/Kg
129-00-0	Pyrene	0.023	U	0.023	0.11	mg/Kg
85-68-7	Butylbenzylphthalate	0.045	U	0.045	0.11	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.023	U	0.023	0.21	mg/Kg
56-55-3	Benzo(a)anthracene	0.014	U	0.014	0.11	mg/Kg
218-01-9	Chrysene	0.012	U	0.012	0.11	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.11		0.037	0.11	mg/Kg
117-84-0	Di-n-octyl phthalate	0.054	U	0.054	0.21	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.012	U	0.012	0.11	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.014	U	0.014	0.11	mg/Kg
50-32-8	Benzo(a)pyrene	0.018	U	0.018	0.11	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	U	0.018	0.11	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.017	U	0.017	0.11	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.016	U	0.016	0.11	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.016	U	0.016	0.11	mg/Kg
123-91-1	1,4-Dioxane	0.028	U	0.028	0.11	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.017	U	0.017	0.11	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	85.3		18 - 112	57%	SPK: 150
13127-88-3	Phenol-d6	81.4		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.9		18 - 107	58%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.5		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.9		10 - 116	59%	SPK: 150
1718-51-0	Terphenyl-d14	52.3		10 - 105	52%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	306000	7.74
1146-65-2	Naphthalene-d8	1210000	10.516
15067-26-2	Acenaphthene-d10	709000	14.369
1517-22-2	Phenanthrene-d10	1320000	17.181
1719-03-5	Chrysene-d12	1310000	21.633
1520-96-3	Perylene-d12	1670000	25.027

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	150	A	4.90	ug/Kg
000104-76-7	1-Hexanol, 2-ethyl-	400	J	7.81	ug/Kg
000119-61-9	Benzophenone	120	J	15.8	ug/Kg
1000309-12-8	Sulfurous acid, isohexyl hexyl est	160	J	16.1	ug/Kg
000142-90-5	n-Dodecyl methacrylate	390	J	16.7	ug/Kg
1000382-54-3	Carbonic acid, eicosyl vinyl ester	140	J	18.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J	18.1	ug/Kg

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001120-36-1	1-Tetradecene	220	J		18.2	ug/Kg
1000373-65-4	Di-sec-butyl phthalate	110	J		18.3	ug/Kg
073105-67-6	1-Iodo-2-methylundecane	220	J		18.4	ug/Kg
001560-86-7	Nonadecane, 2-methyl-	200	J		18.9	ug/Kg
000630-01-3	Hexacosane	290	J		19.1	ug/Kg
013187-99-0	2-Bromo dodecane	460	J		19.3	ug/Kg
	unknown19.645	300	J		19.6	ug/Kg
1000406-31-9	Docosane, 1-iodo-	140	J		20.4	ug/Kg
000103-23-1	Hexanedioic acid, bis(2-ethylhexyl	420	J		20.7	ug/Kg
1000156-09-4	Tetrapentacontane, 1,54-dibromo-	420	J		26.0	ug/Kg
000629-99-2	Pentacosane	210	J		29.5	ug/Kg
062016-79-9	Heptacosane, 1-chloro-	350	J		29.8	ug/Kg
000544-77-4	Hexadecane, 1-iodo-	200	J		32.0	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