

Report of Analysis

Client:	PSEG	Date Collected:	03/20/25
Project:	Port St- Newark Project	Date Received:	03/20/25
Client Sample ID:	TP-5	SDG No.:	Q1619
Lab Sample ID:	Q1619-13	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.2
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
BF142034.D	1	03/21/25 08:10	03/21/25 17:21	PB167254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.24	U	0.11	0.24	mg/Kg
108-95-2	Phenol	0.12	U	0.016	0.12	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.12	U	0.018	0.12	mg/Kg
95-57-8	2-Chlorophenol	0.12	U	0.018	0.12	mg/Kg
95-48-7	2-Methylphenol	0.12	U	0.022	0.12	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.12	U	0.027	0.12	mg/Kg
98-86-2	Acetophenone	0.12	U	0.021	0.12	mg/Kg
65794-96-9	3+4-Methylphenols	0.24	U	0.030	0.24	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.058	U	0.034	0.058	mg/Kg
67-72-1	Hexachloroethane	0.12	U	0.013	0.12	mg/Kg
98-95-3	Nitrobenzene	0.12	U	0.013	0.12	mg/Kg
78-59-1	Isophorone	0.12	U	0.024	0.12	mg/Kg
88-75-5	2-Nitrophenol	0.12	U	0.042	0.12	mg/Kg
105-67-9	2,4-Dimethylphenol	0.12	U	0.047	0.12	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.12	U	0.022	0.12	mg/Kg
120-83-2	2,4-Dichlorophenol	0.12	U	0.020	0.12	mg/Kg
91-20-3	Naphthalene	0.66		0.016	0.12	mg/Kg
106-47-8	4-Chloroaniline	0.12	U	0.026	0.12	mg/Kg
87-68-3	Hexachlorobutadiene	0.12	U	0.018	0.12	mg/Kg
105-60-2	Caprolactam	0.24	U	0.038	0.24	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.12	U	0.021	0.12	mg/Kg
91-57-6	2-Methylnaphthalene	0.25		0.019	0.12	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.24	U	0.084	0.24	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.12	U	0.014	0.12	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.12	U	0.021	0.12	mg/Kg
92-52-4	1,1-Biphenyl	0.13		0.016	0.12	mg/Kg
91-58-7	2-Chloronaphthalene	0.12	U	0.016	0.12	mg/Kg
88-74-4	2-Nitroaniline	0.12	U	0.035	0.12	mg/Kg
131-11-3	Dimethylphthalate	0.12	U	0.020	0.12	mg/Kg

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208-96-8	Acenaphthylene	0.12	U	0.021	0.12	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.12	U	0.024	0.12	mg/Kg
99-09-2	3-Nitroaniline	0.12	U	0.033	0.12	mg/Kg
83-32-9	Acenaphthene	1.20		0.015	0.12	mg/Kg
51-28-5	2,4-Dinitrophenol	0.24	U	0.17	0.24	mg/Kg
100-02-7	4-Nitrophenol	0.24	U	0.077	0.24	mg/Kg
132-64-9	Dibenzofuran	0.97		0.016	0.12	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.12	U	0.036	0.12	mg/Kg
84-66-2	Diethylphthalate	0.12	U	0.020	0.12	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.12	U	0.019	0.12	mg/Kg
86-73-7	Fluorene	1.20		0.018	0.12	mg/Kg
100-01-6	4-Nitroaniline	0.12	U	0.046	0.12	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.24	U	0.074	0.24	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.12	U	0.024	0.12	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.12	U	0.020	0.12	mg/Kg
118-74-1	Hexachlorobenzene	0.12	U	0.018	0.12	mg/Kg
1912-24-9	Atrazine	0.12	U	0.025	0.12	mg/Kg
87-86-5	Pentachlorophenol	0.24	U	0.037	0.24	mg/Kg
85-01-8	Phenanthrene	8.90	E	0.015	0.12	mg/Kg
120-12-7	Anthracene	2.50	E	0.024	0.12	mg/Kg
86-74-8	Carbazole	1.10		0.023	0.12	mg/Kg
84-74-2	Di-n-butylphthalate	0.12	U	0.035	0.12	mg/Kg
206-44-0	Fluoranthene	8.00	E	0.022	0.12	mg/Kg
129-00-0	Pyrene	5.20	E	0.026	0.12	mg/Kg
85-68-7	Butylbenzylphthalate	0.12	U	0.052	0.12	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.24	U	0.027	0.24	mg/Kg
56-55-3	Benzo(a)anthracene	4.00	E	0.017	0.12	mg/Kg
218-01-9	Chrysene	3.20	E	0.014	0.12	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.12	U	0.043	0.12	mg/Kg
117-84-0	Di-n-octyl phthalate	0.24	U	0.063	0.24	mg/Kg
205-99-2	Benzo(b)fluoranthene	3.90	E	0.014	0.12	mg/Kg

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207-08-9	Benzo(k)fluoranthene	1.20		0.016	0.12	mg/Kg
50-32-8	Benzo(a)pyrene	3.20	E	0.021	0.12	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.97		0.021	0.12	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.12	U	0.020	0.12	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.00		0.019	0.12	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.12	U	0.019	0.12	mg/Kg
123-91-1	1,4-Dioxane	0.12	U	0.033	0.12	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.12	U	0.020	0.12	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	70.2		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	78.7		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	58.5		18 - 107	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.3		20 - 109	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	39.7		10 - 116	26%	SPK: 150
1718-51-0	Terphenyl-d14	41.8		10 - 105	42%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	145000	6.875
1146-65-2	Naphthalene-d8	537000	8.151
15067-26-2	Acenaphthene-d10	265000	9.91
1517-22-2	Phenanthrene-d10	375000	11.398
1719-03-5	Chrysene-d12	327000	14.045
1520-96-3	Perylene-d12	385000	15.521

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	720	J	2.15	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	330	A	5.09	ug/Kg
90-12-0	1-Methylnaphthalene	160	J	8.96	ug/Kg
000571-61-9	Naphthalene, 1,5-dimethyl-	96.8	J	9.49	ug/Kg
000581-42-0	Naphthalene, 2,6-dimethyl-	100	J	9.56	ug/Kg
Total PAH	Total PAH	45100	J	9.95	ug/Kg
001855-47-6	1-Isopropenylnaphthalene	110	J	10.5	ug/Kg

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000954-21-2	Nordiphenamid	130	J		10.5	ug/Kg
007320-53-8	Dibenzofuran, 4-methyl-	380	J		10.6	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	110	J		13.2	ug/Kg
000225-51-4	Benz[c]acridine	77.1	J		13.8	ug/Kg
095676-42-9	4,5-Dihydrobenzo[e]pyrene	460	J		14.9	ug/Kg
000198-55-0	Perylene	570	J		15.2	ug/Kg
000207-93-2	Dinaphtho[1,2-b:1,2-d]furan	220	J		15.3	ug/Kg
000192-97-2	Benzo[e]pyrene	2500	J		15.4	ug/Kg
000056-49-5	3-Methylcholanthrene	120	J		15.9	ug/Kg
1000151-82-0	Boroxin, ethyldiphenyl-	270	J		16.1	ug/Kg
000214-17-5	Benzo[b]chrysene	600	J		16.8	ug/Kg
000053-70-3	Dibenz[a,h]anthracene	120	J		17.1	ug/Kg
000215-58-7	Benzo[b]triphenylene	310	J		17.2	ug/Kg
000213-46-7	Picene	150	J		17.2	ug/Kg
000191-26-4	Dibenzo[def,mno]chrysene	380	J		17.7	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