

Report of Analysis

Client:	PSEG	Date Collected:	05/19/25
Project:	OR-640 Haworth Boro & Dumont	Date Received:	05/19/25
Client Sample ID:	OR-640-COMP-66	SDG No.:	Q2084
Lab Sample ID:	Q2084-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.5
Sample Wt/Vol:	50.07 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
BP024749.D	1	05/21/25 10:00	05/21/25 22:59	PB168104

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	0.028	0.12	mg/Kg
98-86-2	Acetophenone	0.12	U	0.022	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	0.059	U	0.035	0.059	mg/Kg
67-72-1	Hexachloroethane	0.12	U	0.013	0.12	mg/Kg
98-95-3	Nitrobenzene	0.12	U	0.014	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	0.043	0.12	mg/Kg
105-67-9	2,4-Dimethylphenol	0.12	U	0.048	0.12	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.12	U	0.023	0.12	mg/Kg
120-83-2	2,4-Dichlorophenol	0.12	U	0.021	0.12	mg/Kg
91-20-3	Naphthalene	0.12	U	0.017	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	0.019	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	0.12	U	0.019	0.12	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.24	U	0.085	0.24	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.12	U	0.015	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	0.12	U	0.016	0.12	mg/Kg
91-58-7	2-Chloronaphthalene	0.12	U	0.017	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		0.021	0.12	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.12	U	0.025	0.12	mg/Kg
99-09-2	3-Nitroaniline	0.12	U	0.034	0.12	mg/Kg
83-32-9	Acenaphthene	0.12	U	0.016	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	0.079	0.24	mg/Kg
132-64-9	Dibenzofuran	0.12	U	0.017	0.12	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.12	U	0.037	0.12	mg/Kg
84-66-2	Diethylphthalate	0.12	U	0.021	0.12	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.12	U	0.020	0.12	mg/Kg
86-73-7	Fluorene	0.12	U	0.019	0.12	mg/Kg
100-01-6	4-Nitroaniline	0.12	U	0.047	0.12	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.24	U	0.076	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	0.019	0.12	mg/Kg
1912-24-9	Atrazine	0.12	U	0.025	0.12	mg/Kg
87-86-5	Pentachlorophenol	0.24	U	0.038	0.24	mg/Kg
85-01-8	Phenanthrene	0.46		0.015	0.12	mg/Kg
120-12-7	Anthracene	0.14		0.025	0.12	mg/Kg
86-74-8	Carbazole	0.12	U	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	1.30		0.022	0.12	mg/Kg
129-00-0	Pyrene	1.10		0.027	0.12	mg/Kg
85-68-7	Butylbenzylphthalate	0.12	U	0.053	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	0.70		0.017	0.12	mg/Kg
218-01-9	Chrysene	0.65		0.015	0.12	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.12	U	0.044	0.12	mg/Kg
117-84-0	Di-n-octyl phthalate	0.24	U	0.064	0.24	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.79		0.014	0.12	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.28		0.017	0.12	mg/Kg
50-32-8	Benzo(a)pyrene	0.61		0.022	0.12	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.34		0.021	0.12	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.11	J	0.020	0.12	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.41		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	84.4		18 - 112	56%	SPK: 150
13127-88-3	Phenol-d6	80.7		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.2		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.1		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	97.3		10 - 116	65%	SPK: 150
1718-51-0	Terphenyl-d14	46.3		10 - 105	46%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	103000	7.657
1146-65-2	Naphthalene-d8	412000	10.422
15067-26-2	Acenaphthene-d10	257000	14.286
1517-22-2	Phenanthrene-d10	531000	17.074
1719-03-5	Chrysene-d12	722000	21.504
1520-96-3	Perylene-d12	918000	24.774

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	120	A	4.82	ug/Kg
000119-61-9	Benzophenone	210	J	15.7	ug/Kg
000610-48-0	Anthracene, 1-methyl-	130	J	18.0	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	250	J	18.0	ug/Kg
000613-12-7	Anthracene, 2-methyl-	70.6	J	18.1	ug/Kg
000090-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	260	J	18.2	ug/Kg
000949-41-7	1H-Cyclopropa[1]phenanthrene, 1a,9b	110	J	18.2	ug/Kg

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005672-97-9	5,16[1,2]:8,13[1,2]-Dibenzen	90.4	J		18.5	ug/Kg
000084-65-1	9,10-Anthracenedione	60.3	J		18.6	ug/Kg
000781-43-1	9,10-Dimethylantracene	150	J		18.9	ug/Kg
	unknown18.992	110	J		19.0	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	140	J		19.1	ug/Kg
002381-21-7	Pyrene, 1-methyl-	59.8	J		19.9	ug/Kg
003442-78-2	Pyrene, 2-methyl-	58.8	J		20.3	ug/Kg
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	60.5	J		21.1	ug/Kg
027208-37-3	Cyclopenta[cd]pyrene	73.0	J		21.2	ug/Kg
002381-31-9	Benz[a]anthracene, 8-methyl-	63.7	J		22.3	ug/Kg
000192-97-2	Benzo[e]pyrene	130	J		24.0	ug/Kg
000198-55-0	Perylene	480	J		24.5	ug/Kg
000205-82-3	Benzo[j]fluoranthene	130	J		24.9	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