

Report of Analysis

Client:	PSEG	Date Collected:	02/26/25
Project:	Hackensack Sub HQ	Date Received:	02/26/25
Client Sample ID:	351	SDG No.:	Q1442
Lab Sample ID:	Q1442-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.5
Sample Wt/Vol:	50.07	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
BP024126.D	1	02/27/25 10:30	02/27/25 19:16	PB166890

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.12	U	0.12	0.23	mg/Kg
108-95-2	Phenol	0.057	U	0.057	0.12	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.057	U	0.057	0.12	mg/Kg
95-57-8	2-Chlorophenol	0.057	U	0.057	0.12	mg/Kg
95-48-7	2-Methylphenol	0.055	U	0.055	0.12	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.062	U	0.062	0.12	mg/Kg
98-86-2	Acetophenone	0.060	U	0.060	0.12	mg/Kg
65794-96-9	3+4-Methylphenols	0.055	U	0.055	0.23	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.028	U	0.028	0.055	mg/Kg
67-72-1	Hexachloroethane	0.057	U	0.057	0.12	mg/Kg
98-95-3	Nitrobenzene	0.062	U	0.062	0.12	mg/Kg
78-59-1	Isophorone	0.058	U	0.058	0.12	mg/Kg
88-75-5	2-Nitrophenol	0.065	U	0.065	0.12	mg/Kg
105-67-9	2,4-Dimethylphenol	0.064	U	0.064	0.12	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.059	U	0.059	0.12	mg/Kg
120-83-2	2,4-Dichlorophenol	0.052	U	0.052	0.12	mg/Kg
91-20-3	Naphthalene	0.057	U	0.057	0.12	mg/Kg
106-47-8	4-Chloroaniline	0.057	U	0.057	0.12	mg/Kg
87-68-3	Hexachlorobutadiene	0.057	U	0.057	0.12	mg/Kg
105-60-2	Caprolactam	0.059	U	0.059	0.23	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.053	U	0.053	0.12	mg/Kg
91-57-6	2-Methylnaphthalene	0.057	U	0.057	0.12	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.11	U	0.11	0.23	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.049	U	0.049	0.12	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.051	U	0.051	0.12	mg/Kg
92-52-4	1,1-Biphenyl	0.060	U	0.060	0.12	mg/Kg
91-58-7	2-Chloronaphthalene	0.057	U	0.057	0.12	mg/Kg
88-74-4	2-Nitroaniline	0.065	U	0.065	0.12	mg/Kg
131-11-3	Dimethylphthalate	0.056	U	0.056	0.12	mg/Kg

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208-96-8	Acenaphthylene	0.059	U	0.059	0.12	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.057	U	0.057	0.12	mg/Kg
99-09-2	3-Nitroaniline	0.061	U	0.061	0.12	mg/Kg
83-32-9	Acenaphthene	0.056	U	0.056	0.12	mg/Kg
51-28-5	2,4-Dinitrophenol	0.17	U	0.17	0.23	mg/Kg
100-02-7	4-Nitrophenol	0.079	U	0.079	0.23	mg/Kg
132-64-9	Dibenzofuran	0.058	U	0.058	0.12	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.059	U	0.059	0.12	mg/Kg
84-66-2	Diethylphthalate	0.055	U	0.055	0.12	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.059	U	0.059	0.12	mg/Kg
86-73-7	Fluorene	0.059	U	0.059	0.12	mg/Kg
100-01-6	4-Nitroaniline	0.073	U	0.073	0.12	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.080	U	0.080	0.23	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.056	U	0.056	0.12	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.054	U	0.054	0.12	mg/Kg
118-74-1	Hexachlorobenzene	0.058	U	0.058	0.12	mg/Kg
1912-24-9	Atrazine	0.063	U	0.063	0.12	mg/Kg
87-86-5	Pentachlorophenol	0.053	U	0.053	0.23	mg/Kg
85-01-8	Phenanthrene	0.45		0.058	0.12	mg/Kg
120-12-7	Anthracene	0.088	J	0.058	0.12	mg/Kg
86-74-8	Carbazole	0.055	U	0.055	0.12	mg/Kg
84-74-2	Di-n-butylphthalate	0.058	U	0.058	0.12	mg/Kg
206-44-0	Fluoranthene	0.73		0.056	0.12	mg/Kg
129-00-0	Pyrene	0.57		0.057	0.12	mg/Kg
85-68-7	Butylbenzylphthalate	0.066	U	0.066	0.12	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.068	U	0.068	0.23	mg/Kg
56-55-3	Benzo(a)anthracene	0.22		0.055	0.12	mg/Kg
218-01-9	Chrysene	0.28		0.054	0.12	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.062	U	0.062	0.12	mg/Kg
117-84-0	Di-n-octyl phthalate	0.075	U	0.075	0.23	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.27		0.056	0.12	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.090	J	0.057	0.12	mg/Kg
50-32-8	Benzo(a)pyrene	0.20		0.064	0.12	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.11	J	0.054	0.12	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.056	U	0.056	0.12	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.12		0.055	0.12	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.059	U	0.059	0.12	mg/Kg
123-91-1	1,4-Dioxane	0.075	U	0.075	0.12	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.051	U	0.051	0.12	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	140		18 - 112	94%	SPK: 150
13127-88-3	Phenol-d6	138		15 - 107	92%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.5		18 - 107	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.1		20 - 109	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	152		10 - 116	101%	SPK: 150
1718-51-0	Terphenyl-d14	86.6		10 - 105	87%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	382000	7.758
1146-65-2	Naphthalene-d8	1490000	10.534
15067-26-2	Acenaphthene-d10	863000	14.393
1517-22-2	Phenanthrene-d10	1610000	17.187
1719-03-5	Chrysene-d12	1680000	21.645
1520-96-3	Perylene-d12	1960000	25.033

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	100	A	4.92	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	47.0	J	9.46	ug/Kg
000119-61-9	Benzophenone	150	J	15.8	ug/Kg
000244-99-5	5H-Indeno[1,2-b]pyridine	55.5	J	17.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	100	J	18.1	ug/Kg
000057-10-3	n-Hexadecanoic acid	360	J	18.1	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	150	J	18.3	ug/Kg

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000613-12-7	Anthracene, 2-methyl-	57.7	J		18.3	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	51.1	J		18.6	ug/Kg
000084-65-1	9,10-Anthracenedione	63.2	J		18.7	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	66.0	J		19.0	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	58.4	J		19.2	ug/Kg
000057-11-4	Octadecanoic acid	61.4	J		19.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	47.5	J		20.0	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	47.2	J		21.0	ug/Kg
002599-01-1	Tetradecanoic acid, hexadecyl este	79.9	J		21.3	ug/Kg
000082-05-3	7H-Benz[de]anthracen-7-one	55.2	J		21.4	ug/Kg
000192-97-2	Benzo[e]pyrene	180	J		24.7	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