

Report of Analysis

Client:	PSEG	Date Collected:	08/29/25
Project:	Hackensack Sub HQ	Date Received:	08/29/25
Client Sample ID:	309	SDG No.:	Q2991
Lab Sample ID:	Q2991-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	5.03	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
BG064244.D	1	09/02/25 10:00	09/02/25 14:03	PB169490

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	2.00	U	0.93	2.00	mg/Kg
108-95-2	Phenol	1.00	U	0.13	1.00	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	1.00	U	0.14	1.00	mg/Kg
95-57-8	2-Chlorophenol	1.00	U	0.15	1.00	mg/Kg
95-48-7	2-Methylphenol	1.00	U	0.18	1.00	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1.00	U	0.22	1.00	mg/Kg
98-86-2	Acetophenone	1.00	U	0.18	1.00	mg/Kg
65794-96-9	3+4-Methylphenols	2.00	U	0.25	2.00	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.48	U	0.28	0.48	mg/Kg
67-72-1	Hexachloroethane	1.00	U	0.10	1.00	mg/Kg
98-95-3	Nitrobenzene	1.00	U	0.11	1.00	mg/Kg
78-59-1	Isophorone	1.00	U	0.20	1.00	mg/Kg
88-75-5	2-Nitrophenol	1.00	U	0.35	1.00	mg/Kg
105-67-9	2,4-Dimethylphenol	1.00	U	0.39	1.00	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	0.18	1.00	mg/Kg
120-83-2	2,4-Dichlorophenol	1.00	U	0.17	1.00	mg/Kg
91-20-3	Naphthalene	1.30		0.14	1.00	mg/Kg
106-47-8	4-Chloroaniline	1.00	U	0.21	1.00	mg/Kg
87-68-3	Hexachlorobutadiene	1.00	U	0.15	1.00	mg/Kg
105-60-2	Caprolactam	2.00	U	0.31	2.00	mg/Kg
59-50-7	4-Chloro-3-methylphenol	1.00	U	0.17	1.00	mg/Kg
91-57-6	2-Methylnaphthalene	1.10		0.15	1.00	mg/Kg
77-47-4	Hexachlorocyclopentadiene	2.00	U	0.69	2.00	mg/Kg
88-06-2	2,4,6-Trichlorophenol	1.00	U	0.12	1.00	mg/Kg
95-95-4	2,4,5-Trichlorophenol	1.00	U	0.17	1.00	mg/Kg
92-52-4	1,1-Biphenyl	1.00	U	0.13	1.00	mg/Kg
91-58-7	2-Chloronaphthalene	1.00	U	0.13	1.00	mg/Kg
88-74-4	2-Nitroaniline	1.00	U	0.29	1.00	mg/Kg
131-11-3	Dimethylphthalate	1.00	U	0.16	1.00	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
		GPC Cleanup :	N
		PH :	

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208-96-8	Acenaphthylene	1.00	U	0.17	1.00	mg/Kg
606-20-2	2,6-Dinitrotoluene	1.00	U	0.20	1.00	mg/Kg
99-09-2	3-Nitroaniline	1.00	U	0.27	1.00	mg/Kg
83-32-9	Acenaphthene	1.00	U	0.13	1.00	mg/Kg
51-28-5	2,4-Dinitrophenol	2.00	U	1.40	2.00	mg/Kg
100-02-7	4-Nitrophenol	2.00	U	0.64	2.00	mg/Kg
132-64-9	Dibenzofuran	1.00	U	0.14	1.00	mg/Kg
121-14-2	2,4-Dinitrotoluene	1.00	U	0.30	1.00	mg/Kg
84-66-2	Diethylphthalate	1.00	U	0.17	1.00	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	0.16	1.00	mg/Kg
86-73-7	Fluorene	1.00	U	0.15	1.00	mg/Kg
100-01-6	4-Nitroaniline	1.00	U	0.38	1.00	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2.00	U	0.61	2.00	mg/Kg
86-30-6	n-Nitrosodiphenylamine	1.00	U	0.20	1.00	mg/Kg
101-55-3	4-Bromophenyl-phenylether	1.00	U	0.17	1.00	mg/Kg
118-74-1	Hexachlorobenzene	1.00	U	0.15	1.00	mg/Kg
1912-24-9	Atrazine	1.00	U	0.20	1.00	mg/Kg
87-86-5	Pentachlorophenol	2.00	U	0.31	2.00	mg/Kg
85-01-8	Phenanthrene	1.00	U	0.12	1.00	mg/Kg
120-12-7	Anthracene	1.00	U	0.20	1.00	mg/Kg
86-74-8	Carbazole	1.00	U	0.19	1.00	mg/Kg
84-74-2	Di-n-butylphthalate	0.50	J	0.29	1.00	mg/Kg
206-44-0	Fluoranthene	1.00	U	0.18	1.00	mg/Kg
129-00-0	Pyrene	1.00	U	0.21	1.00	mg/Kg
85-68-7	Butylbenzylphthalate	1.00	U	0.43	1.00	mg/Kg
91-94-1	3,3-Dichlorobenzidine	2.00	U	0.22	2.00	mg/Kg
56-55-3	Benzo(a)anthracene	1.00	U	0.14	1.00	mg/Kg
218-01-9	Chrysene	1.00	U	0.12	1.00	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2.00		0.35	1.00	mg/Kg
117-84-0	Di-n-octyl phthalate	2.00	U	0.52	2.00	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.00	U	0.11	1.00	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 uL
		GPC Cleanup :	N
		PH :	

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207-08-9	Benzo(k)fluoranthene	1.00	U	0.13	1.00	mg/Kg
50-32-8	Benzo(a)pyrene	1.00	U	0.18	1.00	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	0.17	1.00	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.00	U	0.16	1.00	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.00	U	0.15	1.00	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1.00	U	0.15	1.00	mg/Kg
123-91-1	1,4-Dioxane	1.00	U	0.27	1.00	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1.00	U	0.16	1.00	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	89.2		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	93.9		15 - 107	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	58.2		18 - 107	58%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.8		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	77.1		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	63.9		10 - 105	64%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	43400	7.861
1146-65-2	Naphthalene-d8	182000	10.646
15067-26-2	Acenaphthene-d10	125000	14.483
1517-22-2	Phenanthrene-d10	253000	17.221
1719-03-5	Chrysene-d12	234000	21.457
1520-96-3	Perylene-d12	270000	24.483

TENTATIVE IDENTIFIED COMPOUNDS

000106-42-3	p-Xylene	39300	J	5.89	ug/Kg
000111-46-6	Ethanol, 2,2-oxybis-	7500	J	7.32	ug/Kg
000526-73-8	Benzene, 1,2,3-trimethyl-	10300	J	7.50	ug/Kg
001120-21-4	Undecane	18400	J	9.10	ug/Kg
	unknown9.225	9100	J	9.22	ug/Kg
	unknown11.669	7600	J	11.7	ug/Kg
90-12-0	1-Methylnaphthalene	560	J	12.5	ug/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 :
Prep Method :	SW3541		

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029878-31-7	1H-Benzotriazole, 4-methyl-	7400	J		14.8	ug/Kg
054833-48-6	Heptadecane, 2,6,10,15-tetramethyl	6000	J		18.4	ug/Kg
000295-65-8	Cyclohexadecane	5200	J		19.0	ug/Kg
013187-99-0	2-Bromo dodecane	7700	J		19.1	ug/Kg
000142-16-5	Bis(2-ethylhexyl) maleate	39500	J		19.3	ug/Kg
000057-11-4	Octadecanoic acid	16500	J		19.4	ug/Kg
000638-68-6	Triacontane	7300	J		19.5	ug/Kg
1000324-87-3	Succinic acid, di(2-ethylhexyl) es	6800	J		19.5	ug/Kg
000141-02-6	2-Butenedioic acid (E)-, bis(2-eth	135000	J		19.8	ug/Kg
004860-03-1	Hexadecane, 1-chloro-	6800	J		20.2	ug/Kg
054833-23-7	Eicosane, 10-methyl-	6500	J		20.4	ug/Kg
000629-94-7	Heneicosane	5900	J		20.5	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