

Report of Analysis

Client: PSEG
Project: Sewaren Central Maintenance Shop
Client Sample ID: VNJ-222
Lab Sample ID: Q3381-01
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 50.03 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/20/25

Date Collected: 10/17/25
Date Received: 10/17/25
SDG No.: Q3381
Matrix: SOIL
% Solid: 89.4
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	0.22	U	1	0.10	0.22	mg/Kg	10/20/25 17:25	PB170165
108-95-2	Phenol	0.11	U	1	0.015	0.11	mg/Kg	10/20/25 17:25	PB170165
111-44-4	bis(2-Chloroethyl)ether	0.11	U	1	0.016	0.11	mg/Kg	10/20/25 17:25	PB170165
95-57-8	2-Chlorophenol	0.11	U	1	0.016	0.11	mg/Kg	10/20/25 17:25	PB170165
95-48-7	2-Methylphenol	0.11	U	1	0.020	0.11	mg/Kg	10/20/25 17:25	PB170165
108-60-1	2,2-oxybis(1-Chloropropane)	0.11	U	1	0.025	0.11	mg/Kg	10/20/25 17:25	PB170165
98-86-2	Acetophenone	0.11	U	1	0.020	0.11	mg/Kg	10/20/25 17:25	PB170165
65794-96-9	3+4-Methylphenols	0.22	U	1	0.028	0.22	mg/Kg	10/20/25 17:25	PB170165
621-64-7	n-Nitroso-di-n-propylamine	0.054	U	1	0.032	0.054	mg/Kg	10/20/25 17:25	PB170165
67-72-1	Hexachloroethane	0.11	U	1	0.012	0.11	mg/Kg	10/20/25 17:25	PB170165
98-95-3	Nitrobenzene	0.11	U	1	0.012	0.11	mg/Kg	10/20/25 17:25	PB170165
78-59-1	Isophorone	0.11	U	1	0.022	0.11	mg/Kg	10/20/25 17:25	PB170165
88-75-5	2-Nitrophenol	0.11	U	1	0.039	0.11	mg/Kg	10/20/25 17:25	PB170165
105-67-9	2,4-Dimethylphenol	0.11	U	1	0.044	0.11	mg/Kg	10/20/25 17:25	PB170165
111-91-1	bis(2-Chloroethoxy)methane	0.11	U	1	0.021	0.11	mg/Kg	10/20/25 17:25	PB170165
120-83-2	2,4-Dichlorophenol	0.11	U	1	0.019	0.11	mg/Kg	10/20/25 17:25	PB170165
91-20-3	Naphthalene	0.11	U	1	0.015	0.11	mg/Kg	10/20/25 17:25	PB170165
106-47-8	4-Chloroaniline	0.11	U	1	0.024	0.11	mg/Kg	10/20/25 17:25	PB170165
87-68-3	Hexachlorobutadiene	0.11	U	1	0.017	0.11	mg/Kg	10/20/25 17:25	PB170165
105-60-2	Caprolactam	0.22	U	1	0.035	0.22	mg/Kg	10/20/25 17:25	PB170165
59-50-7	4-Chloro-3-methylphenol	0.11	U	1	0.019	0.11	mg/Kg	10/20/25 17:25	PB170165
91-57-6	2-Methylnaphthalene	0.11	U	1	0.017	0.11	mg/Kg	10/20/25 17:25	PB170165
77-47-4	Hexachlorocyclopentadiene	0.22	U	1	0.078	0.22	mg/Kg	10/20/25 17:25	PB170165
88-06-2	2,4,6-Trichlorophenol	0.11	U	1	0.013	0.11	mg/Kg	10/20/25 17:25	PB170165
95-95-4	2,4,5-Trichlorophenol	0.11	U	1	0.020	0.11	mg/Kg	10/20/25 17:25	PB170165
92-52-4	1,1-Biphenyl	0.11	U	1	0.015	0.11	mg/Kg	10/20/25 17:25	PB170165
91-58-7	2-Chloronaphthalene	0.11	U	1	0.015	0.11	mg/Kg	10/20/25 17:25	PB170165
88-74-4	2-Nitroaniline	0.11	U	1	0.032	0.11	mg/Kg	10/20/25 17:25	PB170165
131-11-3	Dimethylphthalate	0.11	U	1	0.018	0.11	mg/Kg	10/20/25 17:25	PB170165
208-96-8	Acenaphthylene	0.11	U	1	0.019	0.11	mg/Kg	10/20/25 17:25	PB170165
606-20-2	2,6-Dinitrotoluene	0.11	U	1	0.023	0.11	mg/Kg	10/20/25 17:25	PB170165
99-09-2	3-Nitroaniline	0.11	U	1	0.031	0.11	mg/Kg	10/20/25 17:25	PB170165
83-32-9	Acenaphthene	0.11	U	1	0.014	0.11	mg/Kg	10/20/25 17:25	PB170165
51-28-5	2,4-Dinitrophenol	0.22	U	1	0.15	0.22	mg/Kg	10/20/25 17:25	PB170165
100-02-7	4-Nitrophenol	0.22	U	1	0.072	0.22	mg/Kg	10/20/25 17:25	PB170165
132-64-9	Dibenzofuran	0.11	U	1	0.015	0.11	mg/Kg	10/20/25 17:25	PB170165
121-14-2	2,4-Dinitrotoluene	0.11	U	1	0.034	0.11	mg/Kg	10/20/25 17:25	PB170165
84-66-2	Diethylphthalate	0.11	U	1	0.019	0.11	mg/Kg	10/20/25 17:25	PB170165
7005-72-3	4-Chlorophenyl-phenylether	0.11	U	1	0.018	0.11	mg/Kg	10/20/25 17:25	PB170165
86-73-7	Fluorene	0.11	U	1	0.017	0.11	mg/Kg	10/20/25 17:25	PB170165
100-01-6	4-Nitroaniline	0.11	U	1	0.043	0.11	mg/Kg	10/20/25 17:25	PB170165
534-52-1	4,6-Dinitro-2-methylphenol	0.22	U	1	0.069	0.22	mg/Kg	10/20/25 17:25	PB170165

Report of Analysis

Client:	PSEG	Date Collected:	10/17/25
Project:	Sewaren Central Maintenance Shop	Date Received:	10/17/25
Client Sample ID:	VNJ-222	SDG No.:	Q3381
Lab Sample ID:	Q3381-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.4
Sample Wt/Vol:	50.03 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541	Level :	LOW
		Final Vol:	1000 uL
		Prep Date:	10/20/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	0.11	U	1	0.022	0.11	mg/Kg	10/20/25 17:25	PB170165
101-55-3	4-Bromophenyl-phenylether	0.11	U	1	0.019	0.11	mg/Kg	10/20/25 17:25	PB170165
118-74-1	Hexachlorobenzene	0.11	U	1	0.017	0.11	mg/Kg	10/20/25 17:25	PB170165
1912-24-9	Atrazine	0.11	U	1	0.023	0.11	mg/Kg	10/20/25 17:25	PB170165
87-86-5	Pentachlorophenol	0.22	U	1	0.034	0.22	mg/Kg	10/20/25 17:25	PB170165
85-01-8	Phenanthrene	0.30		1	0.014	0.11	mg/Kg	10/20/25 17:25	PB170165
120-12-7	Anthracene	0.078	J	1	0.022	0.11	mg/Kg	10/20/25 17:25	PB170165
86-74-8	Carbazole	0.11	U	1	0.021	0.11	mg/Kg	10/20/25 17:25	PB170165
84-74-2	Di-n-butylphthalate	0.11	U	1	0.032	0.11	mg/Kg	10/20/25 17:25	PB170165
206-44-0	Fluoranthene	0.43		1	0.020	0.11	mg/Kg	10/20/25 17:25	PB170165
129-00-0	Pyrene	0.28		1	0.024	0.11	mg/Kg	10/20/25 17:25	PB170165
85-68-7	Butylbenzylphthalate	0.11	U	1	0.048	0.11	mg/Kg	10/20/25 17:25	PB170165
91-94-1	3,3-Dichlorobenzidine	0.22	U	1	0.025	0.22	mg/Kg	10/20/25 17:25	PB170165
56-55-3	Benzo(a)anthracene	0.20		1	0.015	0.11	mg/Kg	10/20/25 17:25	PB170165
218-01-9	Chrysene	0.21		1	0.013	0.11	mg/Kg	10/20/25 17:25	PB170165
117-81-7	Bis(2-ethylhexyl)phthalate	0.11	U	1	0.040	0.11	mg/Kg	10/20/25 17:25	PB170165
117-84-0	Di-n-octyl phthalate	0.22	U	1	0.058	0.22	mg/Kg	10/20/25 17:25	PB170165
205-99-2	Benzo(b)fluoranthene	0.19		1	0.013	0.11	mg/Kg	10/20/25 17:25	PB170165
207-08-9	Benzo(k)fluoranthene	0.061	J	1	0.015	0.11	mg/Kg	10/20/25 17:25	PB170165
50-32-8	Benzo(a)pyrene	0.15		1	0.020	0.11	mg/Kg	10/20/25 17:25	PB170165
193-39-5	Indeno(1,2,3-cd)pyrene	0.064	J	1	0.020	0.11	mg/Kg	10/20/25 17:25	PB170165
53-70-3	Dibenzo(a,h)anthracene	0.11	U	1	0.018	0.11	mg/Kg	10/20/25 17:25	PB170165
191-24-2	Benzo(g,h,i)perylene	0.077	J	1	0.017	0.11	mg/Kg	10/20/25 17:25	PB170165
95-94-3	1,2,4,5-Tetrachlorobenzene	0.11	U	1	0.017	0.11	mg/Kg	10/20/25 17:25	PB170165
123-91-1	1,4-Dioxane	0.11	U	1	0.030	0.11	mg/Kg	10/20/25 17:25	PB170165
58-90-2	2,3,4,6-Tetrachlorophenol	0.11	U	1	0.018	0.11	mg/Kg	10/20/25 17:25	PB170165

SURROGATES

367-12-4	2-Fluorophenol	106		18 - 112	71%	SPK: 150
13127-88-3	Phenol-d6	105		15 - 107	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.8		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.7		20 - 109	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.3		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	60.7		10 - 105	61%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	90400
1146-65-2	Naphthalene-d8	345000
15067-26-2	Acenaphthene-d10	173000
1517-22-2	Phenanthrene-d10	276000
1719-03-5	Chrysene-d12	214000
1520-96-3	Perylene-d12	277000

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	160	J	10.6	ug/Kg
000244-99-5	5H-Indeno[1,2-b]pyridine	47.6	J	11.6	ug/Kg

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Prep Method :	SW3541		
	Level : LOW		
	Final Vol: 1000 uL		
	Prep Date: 10/20/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
000832-69-9	Phenanthrene, 1-methyl-	120	J			11.9	ug/Kg		
000203-64-5	4H-Cyclopenta[def]phenanthrene	78.3	J			12.0	ug/Kg		
000192-97-2	Benzo[e]pyrene	92.3	J			15.4	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