

Report of Analysis

Client:	PSEG	Date Collected:	11/13/25
Project:	PSEG Bayway Switching Station	Date Received:	11/13/25
Client Sample ID:	VNJ-208	SDG No.:	Q3631
Lab Sample ID:	Q3631-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	50.05 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level: LOW		
	Final Vol: 1000 uL		
	Prep Date: 11/14/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	0.11	U	1	0.11	0.23	mg/Kg	11/14/25 13:52	PB170551
108-95-2	Phenol	0.015	U	1	0.015	0.12	mg/Kg	11/14/25 13:52	PB170551
111-44-4	bis(2-Chloroethyl)ether	0.017	U	1	0.017	0.12	mg/Kg	11/14/25 13:52	PB170551
95-57-8	2-Chlorophenol	0.017	U	1	0.017	0.12	mg/Kg	11/14/25 13:52	PB170551
95-48-7	2-Methylphenol	0.021	U	1	0.021	0.12	mg/Kg	11/14/25 13:52	PB170551
108-60-1	2,2-oxybis(1-Chloropropane)	0.026	U	1	0.026	0.12	mg/Kg	11/14/25 13:52	PB170551
98-86-2	Acetophenone	0.020	U	1	0.020	0.12	mg/Kg	11/14/25 13:52	PB170551
65794-96-9	3+4-Methylphenols	0.028	U	1	0.028	0.23	mg/Kg	11/14/25 13:52	PB170551
621-64-7	n-Nitroso-di-n-propylamine	0.033	U	1	0.033	0.055	mg/Kg	11/14/25 13:52	PB170551
67-72-1	Hexachloroethane	0.012	U	1	0.012	0.12	mg/Kg	11/14/25 13:52	PB170551
98-95-3	Nitrobenzene	0.013	U	1	0.013	0.12	mg/Kg	11/14/25 13:52	PB170551
78-59-1	Isophorone	0.023	U	1	0.023	0.12	mg/Kg	11/14/25 13:52	PB170551
88-75-5	2-Nitrophenol	0.040	U	1	0.040	0.12	mg/Kg	11/14/25 13:52	PB170551
105-67-9	2,4-Dimethylphenol	0.044	U	1	0.044	0.12	mg/Kg	11/14/25 13:52	PB170551
111-91-1	bis(2-Chloroethoxy)methane	0.021	U	1	0.021	0.12	mg/Kg	11/14/25 13:52	PB170551
120-83-2	2,4-Dichlorophenol	0.019	U	1	0.019	0.12	mg/Kg	11/14/25 13:52	PB170551
91-20-3	Naphthalene	0.016	U	1	0.016	0.12	mg/Kg	11/14/25 13:52	PB170551
106-47-8	4-Chloroaniline	0.024	U	1	0.024	0.12	mg/Kg	11/14/25 13:52	PB170551
87-68-3	Hexachlorobutadiene	0.017	U	1	0.017	0.12	mg/Kg	11/14/25 13:52	PB170551
105-60-2	Caprolactam	0.036	U	1	0.036	0.23	mg/Kg	11/14/25 13:52	PB170551
59-50-7	4-Chloro-3-methylphenol	0.020	U	1	0.020	0.12	mg/Kg	11/14/25 13:52	PB170551
91-57-6	2-Methylnaphthalene	0.018	U	1	0.018	0.12	mg/Kg	11/14/25 13:52	PB170551
77-47-4	Hexachlorocyclopentadiene	0.080	U	1	0.080	0.23	mg/Kg	11/14/25 13:52	PB170551
88-06-2	2,4,6-Trichlorophenol	0.014	U	1	0.014	0.12	mg/Kg	11/14/25 13:52	PB170551
95-95-4	2,4,5-Trichlorophenol	0.020	U	1	0.020	0.12	mg/Kg	11/14/25 13:52	PB170551
92-52-4	1,1-Biphenyl	0.015	U	1	0.015	0.12	mg/Kg	11/14/25 13:52	PB170551
91-58-7	2-Chloronaphthalene	0.015	U	1	0.015	0.12	mg/Kg	11/14/25 13:52	PB170551
88-74-4	2-Nitroaniline	0.033	U	1	0.033	0.12	mg/Kg	11/14/25 13:52	PB170551
131-11-3	Dimethylphthalate	0.019	U	1	0.019	0.12	mg/Kg	11/14/25 13:52	PB170551
208-96-8	Acenaphthylene	0.020	U	1	0.020	0.12	mg/Kg	11/14/25 13:52	PB170551
606-20-2	2,6-Dinitrotoluene	0.023	U	1	0.023	0.12	mg/Kg	11/14/25 13:52	PB170551
99-09-2	3-Nitroaniline	0.032	U	1	0.032	0.12	mg/Kg	11/14/25 13:52	PB170551
83-32-9	Acenaphthene	0.015	U	1	0.015	0.12	mg/Kg	11/14/25 13:52	PB170551
51-28-5	2,4-Dinitrophenol	0.16	U	1	0.16	0.23	mg/Kg	11/14/25 13:52	PB170551
100-02-7	4-Nitrophenol	0.073	U	1	0.073	0.23	mg/Kg	11/14/25 13:52	PB170551
132-64-9	Dibenzofuran	0.016	U	1	0.016	0.12	mg/Kg	11/14/25 13:52	PB170551
121-14-2	2,4-Dinitrotoluene	0.034	U	1	0.034	0.12	mg/Kg	11/14/25 13:52	PB170551
84-66-2	Diethylphthalate	0.019	U	1	0.019	0.12	mg/Kg	11/14/25 13:52	PB170551
7005-72-3	4-Chlorophenyl-phenylether	0.018	U	1	0.018	0.12	mg/Kg	11/14/25 13:52	PB170551
86-73-7	Fluorene	0.017	U	1	0.017	0.12	mg/Kg	11/14/25 13:52	PB170551
100-01-6	4-Nitroaniline	0.044	U	1	0.044	0.12	mg/Kg	11/14/25 13:52	PB170551
534-52-1	4,6-Dinitro-2-methylphenol	0.071	U	1	0.071	0.23	mg/Kg	11/14/25 13:52	PB170551

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Lab Sample ID:	Q3631-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	50.05 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541	Level: LOW	
		Final Vol:	1000 uL
		Prep Date:	11/14/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	0.023	U	1	0.023	0.12	mg/Kg	11/14/25 13:52	PB170551
101-55-3	4-Bromophenyl-phenylether	0.019	U	1	0.019	0.12	mg/Kg	11/14/25 13:52	PB170551
118-74-1	Hexachlorobenzene	0.017	U	1	0.017	0.12	mg/Kg	11/14/25 13:52	PB170551
1912-24-9	Atrazine	0.023	U	1	0.023	0.12	mg/Kg	11/14/25 13:52	PB170551
87-86-5	Pentachlorophenol	0.035	U	1	0.035	0.23	mg/Kg	11/14/25 13:52	PB170551
85-01-8	Phenanthrene	0.089	J	1	0.014	0.12	mg/Kg	11/14/25 13:52	PB170551
120-12-7	Anthracene	0.023	U	1	0.023	0.12	mg/Kg	11/14/25 13:52	PB170551
86-74-8	Carbazole	0.021	U	1	0.021	0.12	mg/Kg	11/14/25 13:52	PB170551
84-74-2	Di-n-butylphthalate	0.033	U	1	0.033	0.12	mg/Kg	11/14/25 13:52	PB170551
206-44-0	Fluoranthene	0.13		1	0.021	0.12	mg/Kg	11/14/25 13:52	PB170551
129-00-0	Pyrene	0.11	J	1	0.025	0.12	mg/Kg	11/14/25 13:52	PB170551
85-68-7	Butylbenzylphthalate	0.049	U	1	0.049	0.12	mg/Kg	11/14/25 13:52	PB170551
91-94-1	3,3-Dichlorobenzidine	0.025	U	1	0.025	0.23	mg/Kg	11/14/25 13:52	PB170551
56-55-3	Benzo(a)anthracene	0.050	J	1	0.016	0.12	mg/Kg	11/14/25 13:52	PB170551
218-01-9	Chrysene	0.059	J	1	0.014	0.12	mg/Kg	11/14/25 13:52	PB170551
117-81-7	Bis(2-ethylhexyl)phthalate	0.079	J	1	0.041	0.12	mg/Kg	11/14/25 13:52	PB170551
117-84-0	Di-n-octyl phthalate	0.060	U	1	0.060	0.23	mg/Kg	11/14/25 13:52	PB170551
205-99-2	Benzo(b)fluoranthene	0.069	J	1	0.013	0.12	mg/Kg	11/14/25 13:52	PB170551
207-08-9	Benzo(k)fluoranthene	0.015	U	1	0.015	0.12	mg/Kg	11/14/25 13:52	PB170551
50-32-8	Benzo(a)pyrene	0.050	J	1	0.020	0.12	mg/Kg	11/14/25 13:52	PB170551
193-39-5	Indeno(1,2,3-cd)pyrene	0.020	U	1	0.020	0.12	mg/Kg	11/14/25 13:52	PB170551
53-70-3	Dibenzo(a,h)anthracene	0.019	U	1	0.019	0.12	mg/Kg	11/14/25 13:52	PB170551
191-24-2	Benzo(g,h,i)perylene	0.018	U	1	0.018	0.12	mg/Kg	11/14/25 13:52	PB170551
95-94-3	1,2,4,5-Tetrachlorobenzene	0.018	U	1	0.018	0.12	mg/Kg	11/14/25 13:52	PB170551
123-91-1	1,4-Dioxane	0.031	U	1	0.031	0.12	mg/Kg	11/14/25 13:52	PB170551
58-90-2	2,3,4,6-Tetrachlorophenol	0.019	U	1	0.019	0.12	mg/Kg	11/14/25 13:52	PB170551

SURROGATES

367-12-4	2-Fluorophenol	80.6		10 - 105	54%	SPK: 150
13127-88-3	Phenol-d6	79.5		10 - 103	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.1		10 - 108	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.9		10 - 108	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.9		10 - 116	61%	SPK: 150
1718-51-0	Terphenyl-d14	47.4		10 - 109	47%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	319000
1146-65-2	Naphthalene-d8	1240000
15067-26-2	Acenaphthene-d10	766000
1517-22-2	Phenanthrene-d10	1550000
1719-03-5	Chrysene-d12	1590000
1520-96-3	Perylene-d12	1830000

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	190	J	15.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	280	J	18.1	ug/Kg

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	Level: LOW	Test:	SVOC-TCL BNA -20
Sample Wt/Vol:	50.05 g		
	Final Vol: 1000 uL		
Prep Method :	SW3541		
	Prep Date: 11/14/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
014167-65-8	Tetratriacontane, 2-methyl-	49.6	J			18.4	ug/Kg		
000057-11-4	Octadecanoic acid	76.4	J			19.4	ug/Kg		
000103-23-1	Hexanedioic acid, bis(2-ethylhexyl	69.7	J			20.7	ug/Kg		
959092-08-1	Pentafluoropropionic acid, pentade	140	J			21.3	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