284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PSEG			Date Collected:	07/31/25
Project:	Waverly Substation			Date Received:	07/31/25
Client Sample ID:	VNJ-253			SDG No.:	Q2734
Lab Sample ID:	Q2734-01			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	90.1
Sample Wt/Vol:	50.09	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
BF143303.D	2	08/04/25 09:20	08/04/25 18:32	PB169095

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.44	U	0.21	0.44	mg/Kg
108-95-2	Phenol	0.23	U	0.029	0.23	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.23	U	0.032	0.23	mg/Kg
95-57-8	2-Chlorophenol	0.23	U	0.032	0.23	mg/Kg
95-48-7	2-Methylphenol	0.23	U	0.040	0.23	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.23	U	0.050	0.23	mg/Kg
98-86-2	Acetophenone	0.23	U	0.039	0.23	mg/Kg
65794-96-9	3+4-Methylphenols	0.44	U	0.055	0.44	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.11	U	0.063	0.11	mg/Kg
67-72-1	Hexachloroethane	0.23	U	0.023	0.23	mg/Kg
98-95-3	Nitrobenzene	0.23	U	0.024	0.23	mg/Kg
78-59-1	Isophorone	0.23	U	0.044	0.23	mg/Kg
88-75-5	2-Nitrophenol	0.23	U	0.077	0.23	mg/Kg
105-67-9	2,4-Dimethylphenol	0.23	U	0.086	0.23	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.23	U	0.041	0.23	mg/Kg
120-83-2	2,4-Dichlorophenol	0.23	U	0.038	0.23	mg/Kg
91-20-3	Naphthalene	0.23	U	0.030	0.23	mg/Kg
106-47-8	4-Chloroaniline	0.23	U	0.047	0.23	mg/Kg
87-68-3	Hexachlorobutadiene	0.23	U	0.034	0.23	mg/Kg
105-60-2	Caprolactam	0.44	U	0.069	0.44	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.23	U	0.038	0.23	mg/Kg
91-57-6	2-Methylnaphthalene	0.23	U	0.034	0.23	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.44	U	0.15	0.44	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.23	U	0.026	0.23	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.23	U	0.039	0.23	mg/Kg
92-52-4	1,1-Biphenyl	0.23	U	0.029	0.23	mg/Kg
91-58-7	2-Chloronaphthalene	0.23	U	0.030	0.23	mg/Kg
88-74-4	2-Nitroaniline	0.23	U	0.064	0.23	mg/Kg
131-11-3	Dimethylphthalate	0.23	U	0.036	0.23	mg/Kg

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BF143303.D	2	08/04/25 09:20	08/04/25 18:32	PB169095

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	0.23	U	0.038	0.23	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.23	U	0.045	0.23	mg/Kg
99-09-2	3-Nitroaniline	0.23	U	0.061	0.23	mg/Kg
83-32-9	Acenaphthene	0.23	U	0.028	0.23	mg/Kg
51-28-5	2,4-Dinitrophenol	0.44	U	0.30	0.44	mg/Kg
100-02-7	4-Nitrophenol	0.44	U	0.14	0.44	mg/Kg
132-64-9	Dibenzofuran	0.23	U	0.030	0.23	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.23	U	0.067	0.23	mg/Kg
84-66-2	Diethylphthalate	0.23	U	0.038	0.23	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.23	U	0.036	0.23	mg/Kg
86-73-7	Fluorene	0.23	U	0.034	0.23	mg/Kg
100-01-6	4-Nitroaniline	0.23	U	0.085	0.23	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.44	U	0.14	0.44	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.23	U	0.044	0.23	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.23	U	0.037	0.23	mg/Kg
118-74-1	Hexachlorobenzene	0.23	U	0.034	0.23	mg/Kg
1912-24-9	Atrazine	0.23	U	0.045	0.23	mg/Kg
87-86-5	Pentachlorophenol	0.44	U	0.068	0.44	mg/Kg
85-01-8	Phenanthrene	0.49		0.028	0.23	mg/Kg
120-12-7	Anthracene	0.13	J	0.044	0.23	mg/Kg
86-74-8	Carbazole	0.23	U	0.042	0.23	mg/Kg
84-74-2	Di-n-butylphthalate	0.23	U	0.064	0.23	mg/Kg
206-44-0	Fluoranthene	1.60		0.040	0.23	mg/Kg
129-00-0	Pyrene	1.00		0.048	0.23	mg/Kg
85-68-7	Butylbenzylphthalate	0.23	U	0.095	0.23	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.44	U	0.049	0.44	mg/Kg
56-55-3	Benzo(a)anthracene	0.73		0.031	0.23	mg/Kg
218-01-9	Chrysene	0.69		0.027	0.23	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.23	U	0.079	0.23	mg/Kg
117-84-0	Di-n-octyl phthalate	0.44	U	0.12	0.44	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.91		0.025	0.23	mg/Kg

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Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
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207-08-9	Benzo(k)fluoranthene	0.32		0.030	0.23	mg/Kg
50-32-8	Benzo(a)pyrene	0.63		0.039	0.23	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.26		0.039	0.23	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.23	U	0.036	0.23	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.32		0.034	0.23	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.23	U	0.034	0.23	mg/Kg
123-91-1	1,4-Dioxane	0.23	U	0.060	0.23	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.23	U	0.036	0.23	mg/Kg
SURROGATES						
367-12-4	2-Fluorophenol	110		18 - 112	74%	SPK: 150
13127-88-3	Phenol-d6	108		15 - 107	72%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.0		18 - 107	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.0		20 - 109	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		10 - 116	73%	SPK: 150
1718-51-0	Terphenyl-d14	60.2		10 - 105	60%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	108000	6.963			
1146-65-2	Naphthalene-d8	377000	8.239			
15067-26-2	Acenaphthene-d10	165000	9.998			
1517-22-2	Phenanthrene-d10	272000	11.48			
1719-03-5	Chrysene-d12	244000	14.127			
1520-96-3	Perylene-d12	175000	15.639			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	770	J		2.27	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	A		5.18	ug/Kg
005911-04-6	Nonane, 3-methyl-	160	J		6.22	ug/Kg
017615-91-7	Undecane, 5,6-dimethyl-	120	J		6.41	ug/Kg
017301-94-9	Nonane, 4-methyl-	140	J		6.47	ug/Kg
006783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	180	J		6.50	ug/Kg
015869-86-0	Octane, 4-ethyl-	440	J		6.80	ug/Kg

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000629-92-5	Nonadecane	95.7	J		10.4	ug/Kg
000119-61-9	Benzophenone	110	J		10.7	ug/Kg
000629-50-5	Tridecane	180	J		10.9	ug/Kg
001560-97-0	Dodecane, 2-methyl-	99.3	J		11.3	ug/Kg
	unknown11.380	90.4	J		11.4	ug/Kg
000057-10-3	n-Hexadecanoic acid	1100	J		12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	250	J		12.1	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	110	J		12.5	ug/Kg
000629-78-7	Heptadecane	110	J		12.6	ug/Kg
000057-11-4	Octadecanoic acid	470	J		12.8	ug/Kg
000238-84-6	11H-Benzo[a]fluorene	99.3	J		13.3	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