

Report of Analysis

Client:	PSEG	Date Collected:	03/06/25
Project:	Bridgewater Switch	Date Received:	03/06/25
Client Sample ID:	50-MIDDLESEX-AVE	SDG No.:	Q1507
Lab Sample ID:	Q1507-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88
Sample Wt/Vol:	50.07 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
BF141916.D	1	03/07/25 08:55	03/11/25 14:56	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.12	U	0.12	0.22	mg/Kg
108-95-2	Phenol	0.056	U	0.056	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	0.059	U	0.059	0.12	mg/Kg
65794-96-9	3+4-Methylphenols	0.054	U	0.054	0.22	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.027	U	0.027	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	0.064	U	0.064	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	0.058	U	0.058	0.12	mg/Kg
120-83-2	2,4-Dichlorophenol	0.051	U	0.051	0.12	mg/Kg
91-20-3	Naphthalene	0.056	U	0.056	0.12	mg/Kg
106-47-8	4-Chloroaniline	0.056	U	0.056	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	0.22	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.053	U	0.053	0.12	mg/Kg
91-57-6	2-Methylnaphthalene	0.056	U	0.056	0.12	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.11	U	0.11	0.22	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	0.050	U	0.050	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

Report of Analysis

Client:	PSEG	Date Collected:	03/06/25
Project:	Bridgewater Switch	Date Received:	03/06/25
Client Sample ID:	50-MIDDLESEX-AVE	SDG No.:	Q1507
Lab Sample ID:	Q1507-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88
Sample Wt/Vol:	50.07 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
BF141916.D	1	03/07/25 08:55	03/11/25 14:56	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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	0.055	U	0.055	0.12	mg/Kg
51-28-5	2,4-Dinitrophenol	0.17	U	0.17	0.22	mg/Kg
100-02-7	4-Nitrophenol	0.079	U	0.079	0.22	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	0.058	U	0.058	0.12	mg/Kg
86-73-7	Fluorene	0.058	U	0.058	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	0.22	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	0.062	U	0.062	0.12	mg/Kg
87-86-5	Pentachlorophenol	0.053	U	0.053	0.22	mg/Kg
85-01-8	Phenanthrene	1.60		0.057	0.12	mg/Kg
120-12-7	Anthracene	0.53		0.058	0.12	mg/Kg
86-74-8	Carbazole	0.13		0.055	0.12	mg/Kg
84-74-2	Di-n-butylphthalate	0.057	U	0.057	0.12	mg/Kg
206-44-0	Fluoranthene	4.80	E	0.056	0.12	mg/Kg
129-00-0	Pyrene	3.70	E	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	0.067	U	0.067	0.22	mg/Kg
56-55-3	Benzo(a)anthracene	3.60	E	0.055	0.12	mg/Kg
218-01-9	Chrysene	3.20	E	0.054	0.12	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.13		0.062	0.12	mg/Kg
117-84-0	Di-n-octyl phthalate	0.075	U	0.075	0.22	mg/Kg
205-99-2	Benzo(b)fluoranthene	3.60	E	0.055	0.12	mg/Kg

Report of Analysis

Client:	PSEG	Date Collected:	03/06/25
Project:	Bridgewater Switch	Date Received:	03/06/25
Client Sample ID:	50-MIDDLESEX-AVE	SDG No.:	Q1507
Lab Sample ID:	Q1507-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88
Sample Wt/Vol:	50.07 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
BF141916.D	1	03/07/25 08:55	03/11/25 14:56	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1.30		0.056	0.12	mg/Kg
50-32-8	Benzo(a)pyrene	2.40	E	0.063	0.12	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.85		0.053	0.12	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.33		0.055	0.12	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.86		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	81.9		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	80.8		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.3		18 - 107	61%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.7		20 - 109	60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	75.8		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	42.9		10 - 105	43%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	165000	6.881
1146-65-2	Naphthalene-d8	640000	8.157
15067-26-2	Acenaphthene-d10	332000	9.916
1517-22-2	Phenanthrene-d10	486000	11.404
1719-03-5	Chrysene-d12	376000	14.051
1520-96-3	Perylene-d12	315000	15.521

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	740	J	2.16	ug/Kg
000119-61-9	Benzophenone	160	J	10.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	240	J	11.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	1400	J	11.9	ug/Kg
000610-48-0	Anthracene, 1-methyl-	190	J	12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	700	J	12.0	ug/Kg
005672-97-9	5,16[1,2]:8,13[1,2]-Dibenzen	260	J	12.2	ug/Kg

Report of Analysis

Client:	PSEG	Date Collected:	03/06/25
Project:	Bridgewater Switch	Date Received:	03/06/25
Client Sample ID:	50-MIDDLESEX-AVE	SDG No.:	Q1507
Lab Sample ID:	Q1507-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88
Sample Wt/Vol:	50.07 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
BF141916.D	1	03/07/25 08:55	03/11/25 14:56	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
003674-66-6	Phenanthrene, 2,5-dimethyl-	130	J		12.5	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	290	J		12.5	ug/Kg
000057-11-4	Octadecanoic acid	180	J		12.7	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	92.6	J		13.2	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	69.9	J		13.7	ug/Kg
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	80.1	J		13.8	ug/Kg
	unknown14.816	190	J		14.8	ug/Kg
000604-53-5	1,1-Binaphthalene	340	J		14.9	ug/Kg
000192-97-2	Benzo[e]pyrene	410	J		15.2	ug/Kg
000207-93-2	Dinaphtho[1,2-b:1,2-d]furan	280	J		15.3	ug/Kg
000198-55-0	Perylene	1900	J		15.4	ug/Kg
000215-58-7	Benzo[b]triphenylene	190	J		17.2	ug/Kg
000213-46-7	Picene	350	J		17.2	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