

Report of Analysis

Client: PSEG
Project: AU-713 Oaklyn Boro
Client Sample ID: AU-713-COMP-02
Lab Sample ID: Q3609-04
Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 50.07 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 11/13/25

Date Collected: 11/11/25
Date Received: 11/12/25
SDG No.: Q3609
Matrix: SOIL
% Solid: 84.6
Test: SVOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
62-75-9	n-Nitrosodimethylamine	0.23	U	1	0.024	0.23	mg/Kg	11/13/25 20:05	PB170528
110-86-1	Pyridine	0.12	U	1	0.028	0.12	mg/Kg	11/13/25 20:05	PB170528
100-52-7	Benzaldehyde	0.23	U	1	0.11	0.23	mg/Kg	11/13/25 20:05	PB170528
108-95-2	Phenol	0.12	U	1	0.016	0.12	mg/Kg	11/13/25 20:05	PB170528
111-44-4	bis(2-Chloroethyl)ether	0.12	U	1	0.017	0.12	mg/Kg	11/13/25 20:05	PB170528
95-57-8	2-Chlorophenol	0.12	U	1	0.017	0.12	mg/Kg	11/13/25 20:05	PB170528
95-48-7	2-Methylphenol	0.12	U	1	0.021	0.12	mg/Kg	11/13/25 20:05	PB170528
108-60-1	2,2-oxybis(1-Chloropropane)	0.12	U	1	0.027	0.12	mg/Kg	11/13/25 20:05	PB170528
98-86-2	Acetophenone	0.12	U	1	0.021	0.12	mg/Kg	11/13/25 20:05	PB170528
65794-96-9	3+4-Methylphenols	0.23	U	1	0.029	0.23	mg/Kg	11/13/25 20:05	PB170528
621-64-7	n-Nitroso-di-n-propylamine	0.057	U	1	0.034	0.057	mg/Kg	11/13/25 20:05	PB170528
67-72-1	Hexachloroethane	0.12	U	1	0.013	0.12	mg/Kg	11/13/25 20:05	PB170528
98-95-3	Nitrobenzene	0.12	U	1	0.013	0.12	mg/Kg	11/13/25 20:05	PB170528
78-59-1	Isophorone	0.12	U	1	0.023	0.12	mg/Kg	11/13/25 20:05	PB170528
88-75-5	2-Nitrophenol	0.12	U	1	0.041	0.12	mg/Kg	11/13/25 20:05	PB170528
105-67-9	2,4-Dimethylphenol	0.12	U	1	0.046	0.12	mg/Kg	11/13/25 20:05	PB170528
111-91-1	bis(2-Chloroethoxy)methane	0.12	U	1	0.022	0.12	mg/Kg	11/13/25 20:05	PB170528
120-83-2	2,4-Dichlorophenol	0.12	U	1	0.020	0.12	mg/Kg	11/13/25 20:05	PB170528
91-20-3	Naphthalene	0.12	U	1	0.016	0.12	mg/Kg	11/13/25 20:05	PB170528
106-47-8	4-Chloroaniline	0.12	U	1	0.025	0.12	mg/Kg	11/13/25 20:05	PB170528
87-68-3	Hexachlorobutadiene	0.12	U	1	0.018	0.12	mg/Kg	11/13/25 20:05	PB170528
105-60-2	Caprolactam	0.23	U	1	0.037	0.23	mg/Kg	11/13/25 20:05	PB170528
59-50-7	4-Chloro-3-methylphenol	0.12	U	1	0.020	0.12	mg/Kg	11/13/25 20:05	PB170528
91-57-6	2-Methylnaphthalene	0.12	U	1	0.018	0.12	mg/Kg	11/13/25 20:05	PB170528
77-47-4	Hexachlorocyclopentadiene	0.23	U	1	0.082	0.23	mg/Kg	11/13/25 20:05	PB170528
88-06-2	2,4,6-Trichlorophenol	0.12	U	1	0.014	0.12	mg/Kg	11/13/25 20:05	PB170528
95-95-4	2,4,5-Trichlorophenol	0.12	U	1	0.021	0.12	mg/Kg	11/13/25 20:05	PB170528
92-52-4	1,1-Biphenyl	0.12	U	1	0.015	0.12	mg/Kg	11/13/25 20:05	PB170528
91-58-7	2-Chloronaphthalene	0.12	U	1	0.016	0.12	mg/Kg	11/13/25 20:05	PB170528
88-74-4	2-Nitroaniline	0.12	U	1	0.034	0.12	mg/Kg	11/13/25 20:05	PB170528
131-11-3	Dimethylphthalate	0.12	U	1	0.019	0.12	mg/Kg	11/13/25 20:05	PB170528
208-96-8	Acenaphthylene	0.12	U	1	0.021	0.12	mg/Kg	11/13/25 20:05	PB170528
606-20-2	2,6-Dinitrotoluene	0.12	U	1	0.024	0.12	mg/Kg	11/13/25 20:05	PB170528
99-09-2	3-Nitroaniline	0.12	U	1	0.033	0.12	mg/Kg	11/13/25 20:05	PB170528
83-32-9	Acenaphthene	0.12	U	1	0.015	0.12	mg/Kg	11/13/25 20:05	PB170528
51-28-5	2,4-Dinitrophenol	0.23	U	1	0.16	0.23	mg/Kg	11/13/25 20:05	PB170528
100-02-7	4-Nitrophenol	0.23	U	1	0.076	0.23	mg/Kg	11/13/25 20:05	PB170528
132-64-9	Dibenzofuran	0.12	U	1	0.016	0.12	mg/Kg	11/13/25 20:05	PB170528
121-14-2	2,4-Dinitrotoluene	0.12	U	1	0.036	0.12	mg/Kg	11/13/25 20:05	PB170528
84-66-2	Diethylphthalate	0.12	U	1	0.020	0.12	mg/Kg	11/13/25 20:05	PB170528
7005-72-3	4-Chlorophenyl-phenylether	0.12	U	1	0.019	0.12	mg/Kg	11/13/25 20:05	PB170528
86-73-7	Fluorene	0.12	U	1	0.018	0.12	mg/Kg	11/13/25 20:05	PB170528

Report of Analysis

Client:	PSEG	Date Collected:	11/11/25
Project:	AU-713 Oaklyn Boro	Date Received:	11/12/25
Client Sample ID:	AU-713-COMP-02	SDG No.:	Q3609
Lab Sample ID:	Q3609-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.6
Sample Wt/Vol:	50.07 g	Test:	SVOCMS Group1
Prep Method :	SW3541		
	Level: LOW		
	Final Vol: 1000 uL		
	Prep Date: 11/13/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
100-01-6	4-Nitroaniline	0.12	U	1	0.046	0.12	mg/Kg	11/13/25 20:05	PB170528
534-52-1	4,6-Dinitro-2-methylphenol	0.23	U	1	0.073	0.23	mg/Kg	11/13/25 20:05	PB170528
86-30-6	n-Nitrosodiphenylamine	0.12	U	1	0.023	0.12	mg/Kg	11/13/25 20:05	PB170528
101-55-3	4-Bromophenyl-phenylether	0.12	U	1	0.020	0.12	mg/Kg	11/13/25 20:05	PB170528
118-74-1	Hexachlorobenzene	0.12	U	1	0.018	0.12	mg/Kg	11/13/25 20:05	PB170528
1912-24-9	Atrazine	0.12	U	1	0.024	0.12	mg/Kg	11/13/25 20:05	PB170528
87-86-5	Pentachlorophenol	0.23	U	1	0.036	0.23	mg/Kg	11/13/25 20:05	PB170528
85-01-8	Phenanthrene	0.12	U	1	0.015	0.12	mg/Kg	11/13/25 20:05	PB170528
120-12-7	Anthracene	0.12	U	1	0.024	0.12	mg/Kg	11/13/25 20:05	PB170528
86-74-8	Carbazole	0.12	U	1	0.022	0.12	mg/Kg	11/13/25 20:05	PB170528
84-74-2	Di-n-butylphthalate	0.12	U	1	0.034	0.12	mg/Kg	11/13/25 20:05	PB170528
206-44-0	Fluoranthene	0.12	U	1	0.021	0.12	mg/Kg	11/13/25 20:05	PB170528
92-87-5	Benzidine	0.23	U	1	0.10	0.23	mg/Kg	11/13/25 20:05	PB170528
129-00-0	Pyrene	0.12	U	1	0.026	0.12	mg/Kg	11/13/25 20:05	PB170528
85-68-7	Butylbenzylphthalate	0.12	U	1	0.051	0.12	mg/Kg	11/13/25 20:05	PB170528
91-94-1	3,3-Dichlorobenzidine	0.23	U	1	0.026	0.23	mg/Kg	11/13/25 20:05	PB170528
56-55-3	Benzo(a)anthracene	0.12	U	1	0.016	0.12	mg/Kg	11/13/25 20:05	PB170528
218-01-9	Chrysene	0.12	U	1	0.014	0.12	mg/Kg	11/13/25 20:05	PB170528
117-81-7	Bis(2-ethylhexyl)phthalate	0.12	U	1	0.042	0.12	mg/Kg	11/13/25 20:05	PB170528
117-84-0	Di-n-octyl phthalate	0.23	U	1	0.062	0.23	mg/Kg	11/13/25 20:05	PB170528
205-99-2	Benzo(b)fluoranthene	0.12	U	1	0.014	0.12	mg/Kg	11/13/25 20:05	PB170528
207-08-9	Benzo(k)fluoranthene	0.12	U	1	0.016	0.12	mg/Kg	11/13/25 20:05	PB170528
50-32-8	Benzo(a)pyrene	0.12	U	1	0.021	0.12	mg/Kg	11/13/25 20:05	PB170528
193-39-5	Indeno(1,2,3-cd)pyrene	0.12	U	1	0.021	0.12	mg/Kg	11/13/25 20:05	PB170528
53-70-3	Dibenzo(a,h)anthracene	0.12	U	1	0.019	0.12	mg/Kg	11/13/25 20:05	PB170528
191-24-2	Benzo(g,h,i)perylene	0.12	U	1	0.018	0.12	mg/Kg	11/13/25 20:05	PB170528
95-94-3	1,2,4,5-Tetrachlorobenzene	0.12	U	1	0.018	0.12	mg/Kg	11/13/25 20:05	PB170528
123-91-1	1,4-Dioxane	0.12	U	1	0.032	0.12	mg/Kg	11/13/25 20:05	PB170528
58-90-2	2,3,4,6-Tetrachlorophenol	0.12	U	1	0.019	0.12	mg/Kg	11/13/25 20:05	PB170528

SURROGATES

367-12-4	2-Fluorophenol	84.9		10 - 105	57%	SPK: 150
13127-88-3	Phenol-d6	82.4		10 - 103	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.8		10 - 108	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.3		10 - 108	55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	80.1		10 - 116	53%	SPK: 150
1718-51-0	Terphenyl-d14	56.6		10 - 109	57%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	37600
1146-65-2	Naphthalene-d8	138000
15067-26-2	Acenaphthene-d10	106000
1517-22-2	Phenanthrene-d10	260000
1719-03-5	Chrysene-d12	336000
1520-96-3	Perylene-d12	362000

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Lab Sample ID:	Q3609-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.6
	Level: LOW	Test:	SVOCMS Group1
Sample Wt/Vol:	50.07 g		
	Final Vol: 1000 uL		
Prep Method :	SW3541		
	Prep Date: 11/13/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
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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