

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.07 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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		180	380	ug/Kg
108-95-2	Phenol	1600		25.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		27.7	190	ug/Kg
95-57-8	2-Chlorophenol	1600		27.9	190	ug/Kg
95-48-7	2-Methylphenol	1500		34.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		42.8	190	ug/Kg
98-86-2	Acetophenone	1700		33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1500		46.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		54.1	91.3	ug/Kg
67-72-1	Hexachloroethane	1500		20.1	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.9	190	ug/Kg
78-59-1	Isophorone	1500		37.4	190	ug/Kg
88-75-5	2-Nitrophenol	1600		66.4	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		74.0	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		32.3	190	ug/Kg
91-20-3	Naphthalene	1600		25.9	190	ug/Kg
106-47-8	4-Chloroaniline	390		40.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		28.9	190	ug/Kg
105-60-2	Caprolactam	2100		59.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		29.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2800		130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		33.2	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1500		25.7	190	ug/Kg
88-74-4	2-Nitroaniline	1700		54.9	190	ug/Kg
131-11-3	Dimethylphthalate	1600		30.9	190	ug/Kg

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208-96-8	Acenaphthylene	1600		33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		38.4	190	ug/Kg
99-09-2	3-Nitroaniline	1100		52.5	190	ug/Kg
83-32-9	Acenaphthene	1800		24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4100	E	260	380	ug/Kg
100-02-7	4-Nitrophenol	4300	E	120	380	ug/Kg
132-64-9	Dibenzofuran	1600		25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		57.2	190	ug/Kg
84-66-2	Diethylphthalate	1700		32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		30.5	190	ug/Kg
86-73-7	Fluorene	1700		28.9	190	ug/Kg
100-01-6	4-Nitroaniline	2100		73.3	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		31.7	190	ug/Kg
118-74-1	Hexachlorobenzene	1500		28.9	190	ug/Kg
1912-24-9	Atrazine	2000		38.8	190	ug/Kg
87-86-5	Pentachlorophenol	3500	E	58.6	380	ug/Kg
85-01-8	Phenanthrene	1600		23.9	190	ug/Kg
120-12-7	Anthracene	1700		38.0	190	ug/Kg
86-74-8	Carbazole	1900		35.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	2000		54.7	190	ug/Kg
206-44-0	Fluoranthene	2200		34.2	190	ug/Kg
129-00-0	Pyrene	1300		41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		81.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	1700		26.3	190	ug/Kg
218-01-9	Chrysene	1600		22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		67.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		99.1	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.7	190	ug/Kg

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207-08-9	Benzo(k)fluoranthene	1600		25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		33.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		29.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		29.2	190	ug/Kg
123-91-1	1,4-Dioxane	1400		51.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	97.6		18 - 112	65%	SPK: 150
13127-88-3	Phenol-d6	97.8		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.4		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.6		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	41.5		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54800	6.898			
1146-65-2	Naphthalene-d8	201000	8.181			
15067-26-2	Acenaphthene-d10	114000	9.939			
1517-22-2	Phenanthrene-d10	229000	11.427			
1719-03-5	Chrysene-d12	211000	14.068			
1520-96-3	Perylene-d12	176000	15.563			

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