

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-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.03 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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1400		180	380	ug/Kg
108-95-2	Phenol	1500		25.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		27.8	190	ug/Kg
95-57-8	2-Chlorophenol	1500		27.9	190	ug/Kg
95-48-7	2-Methylphenol	1500		34.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		42.9	190	ug/Kg
98-86-2	Acetophenone	1600		33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1500		47.0	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		54.2	91.4	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		37.5	190	ug/Kg
88-75-5	2-Nitrophenol	1600		66.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		74.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		32.3	190	ug/Kg
91-20-3	Naphthalene	1600		25.9	190	ug/Kg
106-47-8	4-Chloroaniline	390		40.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	1500		28.9	190	ug/Kg
105-60-2	Caprolactam	1800		59.6	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		29.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		33.3	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1600		25.7	190	ug/Kg
88-74-4	2-Nitroaniline	1700		55.0	190	ug/Kg
131-11-3	Dimethylphthalate	1600		31.0	190	ug/Kg

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-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.03 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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		38.4	190	ug/Kg
99-09-2	3-Nitroaniline	1000		52.6	190	ug/Kg
83-32-9	Acenaphthene	1800		24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	260	380	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	380	ug/Kg
132-64-9	Dibenzofuran	1600		25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		57.3	190	ug/Kg
84-66-2	Diethylphthalate	1600		32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		30.5	190	ug/Kg
86-73-7	Fluorene	1600		28.9	190	ug/Kg
100-01-6	4-Nitroaniline	1900		73.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		31.8	190	ug/Kg
118-74-1	Hexachlorobenzene	1500		28.9	190	ug/Kg
1912-24-9	Atrazine	1900		38.9	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	58.6	380	ug/Kg
85-01-8	Phenanthrene	1700		23.9	190	ug/Kg
120-12-7	Anthracene	1700		38.1	190	ug/Kg
86-74-8	Carbazole	1900		35.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		54.8	190	ug/Kg
206-44-0	Fluoranthene	2300		34.3	190	ug/Kg
129-00-0	Pyrene	1300		41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		81.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	770		41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	1600		26.3	190	ug/Kg
218-01-9	Chrysene	1600		22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		67.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		99.2	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		21.7	190	ug/Kg

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-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.03 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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		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		33.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		29.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		29.3	190	ug/Kg
123-91-1	1,4-Dioxane	1400		51.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	95.8		18 - 112	64%	SPK: 150
13127-88-3	Phenol-d6	95.6		15 - 107	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.6		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.4		20 - 109	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 116	71%	SPK: 150
1718-51-0	Terphenyl-d14	40.2		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53500	6.898			
1146-65-2	Naphthalene-d8	192000	8.181			
15067-26-2	Acenaphthene-d10	95700	9.939			
1517-22-2	Phenanthrene-d10	179000	11.427			
1719-03-5	Chrysene-d12	174000	14.068			
1520-96-3	Perylene-d12	148000	15.557			

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