

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		Final Vol:	1000 uL
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142583.D	1	05/30/25 09:50	05/30/25 21:42	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	380	U	180	380	ug/Kg
108-95-2	Phenol	200	U	25.6	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	200	U	28.1	200	ug/Kg
95-57-8	2-Chlorophenol	200	U	28.2	200	ug/Kg
95-48-7	2-Methylphenol	200	U	34.6	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	43.4	200	ug/Kg
98-86-2	Acetophenone	200	U	34.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	380	U	47.6	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	92.6	U	54.9	92.6	ug/Kg
67-72-1	Hexachloroethane	200	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	200	U	21.2	200	ug/Kg
78-59-1	Isophorone	200	U	38.0	200	ug/Kg
88-75-5	2-Nitrophenol	200	U	67.4	200	ug/Kg
105-67-9	2,4-Dimethylphenol	200	U	75.0	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	200	U	35.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	200	U	32.8	200	ug/Kg
91-20-3	Naphthalene	200	U	26.3	200	ug/Kg
106-47-8	4-Chloroaniline	200	U	41.0	200	ug/Kg
87-68-3	Hexachlorobutadiene	200	U	29.3	200	ug/Kg
105-60-2	Caprolactam	380	U	60.3	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	200	U	33.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	200	U	29.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	380	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	200	U	22.9	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	200	U	33.7	200	ug/Kg
92-52-4	1,1-Biphenyl	200	U	25.2	200	ug/Kg
91-58-7	2-Chloronaphthalene	200	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	200	U	55.7	200	ug/Kg
131-11-3	Dimethylphthalate	200	U	31.4	200	ug/Kg

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208-96-8	Acenaphthylene	200	U	33.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	38.9	200	ug/Kg
99-09-2	3-Nitroaniline	200	U	53.3	200	ug/Kg
83-32-9	Acenaphthene	200	U	24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	380	U	120	380	ug/Kg
132-64-9	Dibenzofuran	200	U	26.3	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	200	U	58.0	200	ug/Kg
84-66-2	Diethylphthalate	200	U	32.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	200	U	30.9	200	ug/Kg
86-73-7	Fluorene	200	U	29.3	200	ug/Kg
100-01-6	4-Nitroaniline	200	U	74.3	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	380	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	38.1	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	200	U	32.2	200	ug/Kg
118-74-1	Hexachlorobenzene	200	U	29.3	200	ug/Kg
1912-24-9	Atrazine	200	U	39.4	200	ug/Kg
87-86-5	Pentachlorophenol	380	U	59.4	380	ug/Kg
85-01-8	Phenanthrene	200	U	24.2	200	ug/Kg
120-12-7	Anthracene	200	U	38.6	200	ug/Kg
86-74-8	Carbazole	200	U	36.1	200	ug/Kg
84-74-2	Di-n-butylphthalate	200	U	55.5	200	ug/Kg
206-44-0	Fluoranthene	130	J	34.7	200	ug/Kg
129-00-0	Pyrene	100	J	41.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	82.7	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	380	U	42.5	380	ug/Kg
56-55-3	Benzo(a)anthracene	200	U	26.6	200	ug/Kg
218-01-9	Chrysene	200	U	23.0	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	U	68.5	200	ug/Kg
117-84-0	Di-n-octyl phthalate	380	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	77.9	J	22.0	200	ug/Kg

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207-08-9	Benzo(k)fluoranthene	200	U	25.9	200	ug/Kg
50-32-8	Benzo(a)pyrene	200	U	34.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	200	U	33.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	200	U	31.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	200	U	29.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	29.6	200	ug/Kg
123-91-1	1,4-Dioxane	200	U	52.3	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	31.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	78.1		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	78.9		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.9		18 - 107	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.0		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.5		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	37.3		10 - 105	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	143000	6.898			
1146-65-2	Naphthalene-d8	546000	8.181			
15067-26-2	Acenaphthene-d10	277000	9.933			
1517-22-2	Phenanthrene-d10	434000	11.421			
1719-03-5	Chrysene-d12	257000	14.068			
1520-96-3	Perylene-d12	308000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
000119-61-9	Benzophenone	150	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	190	J		11.9	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	110	J		13.9	ug/Kg

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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