

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.3
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142446.D	1	05/16/25 10:00	05/19/25 12:39	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	430	ug/Kg
108-95-2	Phenol	28.9	U	28.9	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.8	U	31.8	220	ug/Kg
95-57-8	2-Chlorophenol	31.9	U	31.9	220	ug/Kg
95-48-7	2-Methylphenol	39.1	U	39.1	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	49.0	U	49.0	220	ug/Kg
98-86-2	Acetophenone	38.6	U	38.6	220	ug/Kg
65794-96-9	3+4-Methylphenols	53.7	U	53.7	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	62.0	U	62.0	100	ug/Kg
67-72-1	Hexachloroethane	23.0	U	23.0	220	ug/Kg
98-95-3	Nitrobenzene	23.9	U	23.9	220	ug/Kg
78-59-1	Isophorone	42.9	U	42.9	220	ug/Kg
88-75-5	2-Nitrophenol	76.1	U	76.1	220	ug/Kg
105-67-9	2,4-Dimethylphenol	84.7	U	84.7	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	40.3	U	40.3	220	ug/Kg
120-83-2	2,4-Dichlorophenol	37.0	U	37.0	220	ug/Kg
91-20-3	Naphthalene	29.7	U	29.7	220	ug/Kg
106-47-8	4-Chloroaniline	46.3	U	46.3	220	ug/Kg
87-68-3	Hexachlorobutadiene	33.1	U	33.1	220	ug/Kg
105-60-2	Caprolactam	68.1	UQ	68.1	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	37.5	U	37.5	220	ug/Kg
91-57-6	2-Methylnaphthalene	33.5	U	33.5	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.9	U	25.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	38.1	U	38.1	220	ug/Kg
92-52-4	1,1-Biphenyl	28.5	U	28.5	220	ug/Kg
91-58-7	2-Chloronaphthalene	29.4	U	29.4	220	ug/Kg
88-74-4	2-Nitroaniline	62.9	U	62.9	220	ug/Kg
131-11-3	Dimethylphthalate	35.4	U	35.4	220	ug/Kg

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208-96-8	Acenaphthylene	37.8	U	37.8	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.9	U	43.9	220	ug/Kg
99-09-2	3-Nitroaniline	60.1	U	60.1	220	ug/Kg
83-32-9	Acenaphthene	27.9	U	27.9	220	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	430	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	430	ug/Kg
132-64-9	Dibenzofuran	29.7	U	29.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	65.5	U	65.5	220	ug/Kg
84-66-2	Diethylphthalate	37.0	U	37.0	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.9	U	34.9	220	ug/Kg
86-73-7	Fluorene	33.1	U	33.1	220	ug/Kg
100-01-6	4-Nitroaniline	83.9	U	83.9	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	43.0	U	43.0	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	36.4	U	36.4	220	ug/Kg
118-74-1	Hexachlorobenzene	33.1	U	33.1	220	ug/Kg
1912-24-9	Atrazine	44.5	U	44.5	220	ug/Kg
87-86-5	Pentachlorophenol	67.1	U	67.1	430	ug/Kg
85-01-8	Phenanthrene	27.3	U	27.3	220	ug/Kg
120-12-7	Anthracene	43.5	U	43.5	220	ug/Kg
86-74-8	Carbazole	40.8	U	40.8	220	ug/Kg
84-74-2	Di-n-butylphthalate	62.6	U	62.6	220	ug/Kg
206-44-0	Fluoranthene	39.2	U	39.2	220	ug/Kg
129-00-0	Pyrene	47.1	U	47.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	93.4	U	93.4	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	48.0	U	48.0	430	ug/Kg
56-55-3	Benzo(a)anthracene	30.1	U	30.1	220	ug/Kg
218-01-9	Chrysene	26.0	U	26.0	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	J	77.4	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.8	U	24.8	220	ug/Kg

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50-32-8	Benzo(a)pyrene	38.6	U	38.6	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	38.1	U	38.1	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.8	U	35.8	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.6	U	33.6	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	33.5	U	33.5	220	ug/Kg
123-91-1	1,4-Dioxane	59.1	U	59.1	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.8	U	35.8	220	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	73.1		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	74.1		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.9		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.7		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.1		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	50.0		10 - 105	50%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	142000	6.904
1146-65-2	Naphthalene-d8	540000	8.186
15067-26-2	Acenaphthene-d10	301000	9.939
1517-22-2	Phenanthrene-d10	542000	11.427
1719-03-5	Chrysene-d12	308000	14.063
1520-96-3	Perylene-d12	297000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

000067-63-0	Isopropyl Alcohol	160	J	3.43	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	AB	5.12	ug/Kg
000770-35-4	1-Phenoxypropan-2-ol	170	J	8.49	ug/Kg
	unknown10.028	130	J	10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	380	J	12.0	ug/Kg
000057-11-4	Octadecanoic acid	140	J	12.7	ug/Kg
074339-54-1	Trichloroacetic acid, hexadecyl es	130	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