

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-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.9
Sample Wt/Vol:	30.05	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
		PH :	N

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142586.D	1	05/30/25 09:50	05/30/25 23:10	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	420	U	200	420	ug/Kg
108-95-2	Phenol	220	U	28.0	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	220	U	30.7	220	ug/Kg
95-57-8	2-Chlorophenol	220	U	30.9	220	ug/Kg
95-48-7	2-Methylphenol	220	U	37.8	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	220	U	47.4	220	ug/Kg
98-86-2	Acetophenone	220	U	37.3	220	ug/Kg
65794-96-9	3+4-Methylphenols	420	U	52.0	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	100	U	60.0	100	ug/Kg
67-72-1	Hexachloroethane	220	U	22.3	220	ug/Kg
98-95-3	Nitrobenzene	220	U	23.2	220	ug/Kg
78-59-1	Isophorone	220	U	41.5	220	ug/Kg
88-75-5	2-Nitrophenol	220	U	73.6	220	ug/Kg
105-67-9	2,4-Dimethylphenol	220	U	82.0	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	220	U	39.0	220	ug/Kg
120-83-2	2,4-Dichlorophenol	220	U	35.8	220	ug/Kg
91-20-3	Naphthalene	220	U	28.7	220	ug/Kg
106-47-8	4-Chloroaniline	220	U	44.8	220	ug/Kg
87-68-3	Hexachlorobutadiene	220	U	32.0	220	ug/Kg
105-60-2	Caprolactam	420	U	65.9	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	220	U	36.3	220	ug/Kg
91-57-6	2-Methylnaphthalene	220	U	32.4	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	420	U	150	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	220	U	25.1	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	220	U	36.8	220	ug/Kg
92-52-4	1,1-Biphenyl	220	U	27.6	220	ug/Kg
91-58-7	2-Chloronaphthalene	220	U	28.5	220	ug/Kg
88-74-4	2-Nitroaniline	220	U	60.9	220	ug/Kg
131-11-3	Dimethylphthalate	220	U	34.3	220	ug/Kg

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208-96-8	Acenaphthylene	350		36.6	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	220	U	42.5	220	ug/Kg
99-09-2	3-Nitroaniline	220	U	58.2	220	ug/Kg
83-32-9	Acenaphthene	260		27.0	220	ug/Kg
51-28-5	2,4-Dinitrophenol	420	U	290	420	ug/Kg
100-02-7	4-Nitrophenol	420	U	140	420	ug/Kg
132-64-9	Dibenzofuran	210	J	28.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	220	U	63.4	220	ug/Kg
84-66-2	Diethylphthalate	220	U	35.8	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	220	U	33.8	220	ug/Kg
86-73-7	Fluorene	450		32.0	220	ug/Kg
100-01-6	4-Nitroaniline	220	U	81.2	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	420	U	130	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	220	U	41.6	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	220	U	35.2	220	ug/Kg
118-74-1	Hexachlorobenzene	220	U	32.0	220	ug/Kg
1912-24-9	Atrazine	220	U	43.0	220	ug/Kg
87-86-5	Pentachlorophenol	420	U	64.9	420	ug/Kg
85-01-8	Phenanthrene	2200		26.4	220	ug/Kg
120-12-7	Anthracene	1100		42.1	220	ug/Kg
86-74-8	Carbazole	170	J	39.5	220	ug/Kg
84-74-2	Di-n-butylphthalate	220	U	60.6	220	ug/Kg
206-44-0	Fluoranthene	5200	E	38.0	220	ug/Kg
129-00-0	Pyrene	2700		45.6	220	ug/Kg
85-68-7	Butylbenzylphthalate	220	U	90.3	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	420	U	46.4	420	ug/Kg
56-55-3	Benzo(a)anthracene	2700		29.1	220	ug/Kg
218-01-9	Chrysene	2200		25.2	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	220	U	74.9	220	ug/Kg
117-84-0	Di-n-octyl phthalate	420	U	110	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	3400	E	24.0	220	ug/Kg

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207-08-9	Benzo(k)fluoranthene	1500		28.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	2500		37.3	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		36.8	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	320		34.7	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200		32.5	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	32.4	220	ug/Kg
123-91-1	1,4-Dioxane	220	U	57.2	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	34.7	220	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	69.9		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	67.4		15 - 107	45%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.1		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.2		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	63.6		10 - 116	42%	SPK: 150
1718-51-0	Terphenyl-d14	31.1		10 - 105	31%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	128000	6.898
1146-65-2	Naphthalene-d8	419000	8.181
15067-26-2	Acenaphthene-d10	173000	9.939
1517-22-2	Phenanthrene-d10	272000	11.428
1719-03-5	Chrysene-d12	273000	14.074
1520-96-3	Perylene-d12	221000	15.574

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB	5.11	ug/Kg
	unknown9.645	140	J	9.64	ug/Kg
000119-61-9	Benzophenone	230	J	10.6	ug/Kg
	unknown10.851	130	J	10.9	ug/Kg
000132-65-0	Dibenzothiophene	230	J	11.3	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	280	J	11.9	ug/Kg
000613-12-7	Anthracene, 2-methyl-	700	J	12.0	ug/Kg

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000610-48-0	Anthracene, 1-methyl-	250	J		12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	1100	J		12.0	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	260	J		12.2	ug/Kg
000781-43-1	9,10-Dimethylanthracene	470	J		12.5	ug/Kg
000781-17-9	Pyrene, 4,5,9,10-tetrahydro-	390	J		12.5	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	290	J		12.6	ug/Kg
002510-55-6	9-Cyanophenanthrene	150	J		12.7	ug/Kg
000886-66-8	Benzene, 1,1-(1,3-butadiyne-1,4-d	150	J		12.7	ug/Kg
002381-21-7	Pyrene, 1-methyl-	150	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	230	J		13.2	ug/Kg
003353-12-6	Pyrene, 4-methyl-	130	J		13.3	ug/Kg
000192-97-2	Benzo[e]pyrene	600	J		15.2	ug/Kg
000198-55-0	Perylene	1800	J		15.4	ug/Kg

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