

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-36	SDG No.:	Q2514
Lab Sample ID:	Q2514-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.3
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
		PH :	
		GPC Cleanup :	N

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143030.D	1	07/07/25 09:00	07/08/25 13:31	PB168737

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.4	U	24.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.9	U	26.9	190	ug/Kg
95-57-8	2-Chlorophenol	27.0	U	27.0	190	ug/Kg
95-48-7	2-Methylphenol	33.0	U	33.0	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.4	U	41.4	190	ug/Kg
98-86-2	Acetophenone	32.6	U	32.6	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.4	U	45.4	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.4	U	52.4	88.4	ug/Kg
67-72-1	Hexachloroethane	19.5	U	19.5	190	ug/Kg
98-95-3	Nitrobenzene	20.2	U	20.2	190	ug/Kg
78-59-1	Isophorone	36.3	U	36.3	190	ug/Kg
88-75-5	2-Nitrophenol	64.3	U	64.3	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.6	U	71.6	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.0	U	34.0	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.3	U	31.3	190	ug/Kg
91-20-3	Naphthalene	25.1	U	25.1	190	ug/Kg
106-47-8	4-Chloroaniline	39.1	U	39.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.0	U	28.0	190	ug/Kg
105-60-2	Caprolactam	57.6	U	57.6	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.7	U	31.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.3	U	28.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.9	U	21.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.2	U	32.2	190	ug/Kg
92-52-4	1,1-Biphenyl	24.1	U	24.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.9	U	24.9	190	ug/Kg
88-74-4	2-Nitroaniline	53.2	U	53.2	190	ug/Kg
131-11-3	Dimethylphthalate	30.0	U	30.0	190	ug/Kg

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208-96-8	Acenaphthylene	31.9	U	31.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.1	U	37.1	190	ug/Kg
99-09-2	3-Nitroaniline	50.8	U	50.8	190	ug/Kg
83-32-9	Acenaphthene	23.5	U	23.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	25.1	U	25.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.4	U	55.4	190	ug/Kg
84-66-2	Diethylphthalate	31.3	U	31.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.5	U	29.5	190	ug/Kg
86-73-7	Fluorene	28.0	U	28.0	190	ug/Kg
100-01-6	4-Nitroaniline	71.0	U	71.0	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.4	U	36.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.7	U	30.7	190	ug/Kg
118-74-1	Hexachlorobenzene	28.0	U	28.0	190	ug/Kg
1912-24-9	Atrazine	37.6	U	37.6	190	ug/Kg
87-86-5	Pentachlorophenol	56.7	U	56.7	360	ug/Kg
85-01-8	Phenanthrene	23.1	U	23.1	190	ug/Kg
120-12-7	Anthracene	36.8	U	36.8	190	ug/Kg
86-74-8	Carbazole	34.5	U	34.5	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.9	U	52.9	190	ug/Kg
206-44-0	Fluoranthene	33.2	U	33.2	190	ug/Kg
129-00-0	Pyrene	39.8	U	39.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.9	U	78.9	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.6	U	40.6	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.4	U	25.4	190	ug/Kg
218-01-9	Chrysene	22.0	U	22.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.4	U	65.4	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.9	U	95.9	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.0	U	21.0	190	ug/Kg

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207-08-9	Benzo(k)fluoranthene	24.8	U	24.8	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.6	U	32.6	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.2	U	32.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.3	U	30.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.4	U	28.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.3	U	28.3	190	ug/Kg
123-91-1	1,4-Dioxane	50.0	U	50.0	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.3	U	30.3	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	78.2		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	79.8		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.7		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.4		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	56.2		10 - 116	37%	SPK: 150
1718-51-0	Terphenyl-d14	40.6		10 - 105	41%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	51600	6.875
1146-65-2	Naphthalene-d8	192000	8.157
15067-26-2	Acenaphthene-d10	97400	9.916
1517-22-2	Phenanthrene-d10	146000	11.404
1719-03-5	Chrysene-d12	94000	14.057
1520-96-3	Perylene-d12	120000	15.551

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB	5.09	ug/Kg
000119-61-9	Benzophenone	270	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	1400	J	11.9	ug/Kg
000629-94-7	Heneicosane	540	J	12.5	ug/Kg
000057-11-4	Octadecanoic acid	2000	J	12.7	ug/Kg
000593-49-7	Heptacosane	2100	J	13.2	ug/Kg
000630-02-4	Octacosane	4400	J	13.8	ug/Kg

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036653-82-4	1-Hexadecanol	200	J		13.9	ug/Kg
000112-95-8	Eicosane	6300	J		14.3	ug/Kg
000630-04-6	Hentriacontane	200	JB		14.5	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	580	J		14.7	ug/Kg
000646-31-1	Tetracosane	8000	J		14.8	ug/Kg
001928-30-9	Tricosane, 2-methyl-	130	J		15.1	ug/Kg
001560-98-1	Octacosane, 2-methyl-	310	J		15.2	ug/Kg
000630-01-3	Hexacosane	3800	J		15.3	ug/Kg
005303-25-3	Octadecanoic acid, dodecyl ester	630	J		15.7	ug/Kg
000629-99-2	Pentacosane	2400	J		15.9	ug/Kg
007098-22-8	Tetratetracontane	140	J		16.0	ug/Kg
055429-84-0	Tetracosane, 11-decyl-	980	J		16.5	ug/Kg
	unknown17.256	330	J		17.3	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