

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/25/25
Client Sample ID:	MH-G/HMS	SDG No.:	Q2413
Lab Sample ID:	Q2416-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	50.09 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
BF142872.D	1	06/26/25 09:20	06/26/25 17:06	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	640		100	220	ug/Kg
108-95-2	Phenol	900		14.8	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	940		16.2	110	ug/Kg
95-57-8	2-Chlorophenol	960		16.3	110	ug/Kg
95-48-7	2-Methylphenol	950		20.0	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	890		25.0	110	ug/Kg
98-86-2	Acetophenone	950		19.7	110	ug/Kg
65794-96-9	3+4-Methylphenols	960		27.4	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	940		31.6	53.4	ug/Kg
67-72-1	Hexachloroethane	940		11.8	110	ug/Kg
98-95-3	Nitrobenzene	940		12.2	110	ug/Kg
78-59-1	Isophorone	940		21.9	110	ug/Kg
88-75-5	2-Nitrophenol	990		38.9	110	ug/Kg
105-67-9	2,4-Dimethylphenol	940		43.3	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	940		20.6	110	ug/Kg
120-83-2	2,4-Dichlorophenol	950		18.9	110	ug/Kg
91-20-3	Naphthalene	940		15.2	110	ug/Kg
106-47-8	4-Chloroaniline	220		23.6	110	ug/Kg
87-68-3	Hexachlorobutadiene	940		16.9	110	ug/Kg
105-60-2	Caprolactam	1000		34.8	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	970		19.2	110	ug/Kg
91-57-6	2-Methylnaphthalene	940		17.1	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1700		77.5	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	920		13.2	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	940		19.4	110	ug/Kg
92-52-4	1,1-Biphenyl	950		14.6	110	ug/Kg
91-58-7	2-Chloronaphthalene	940		15.0	110	ug/Kg
88-74-4	2-Nitroaniline	1000		32.1	110	ug/Kg
131-11-3	Dimethylphthalate	990		18.1	110	ug/Kg

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208-96-8	Acenaphthylene	940		19.3	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		22.4	110	ug/Kg
99-09-2	3-Nitroaniline	480		30.7	110	ug/Kg
83-32-9	Acenaphthene	900		14.2	110	ug/Kg
51-28-5	2,4-Dinitrophenol	160	J	150	220	ug/Kg
100-02-7	4-Nitrophenol	1700		71.4	220	ug/Kg
132-64-9	Dibenzofuran	940		15.2	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	1000		33.5	110	ug/Kg
84-66-2	Diethylphthalate	1000		18.9	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	950		17.8	110	ug/Kg
86-73-7	Fluorene	950		16.9	110	ug/Kg
100-01-6	4-Nitroaniline	970		42.9	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	200	J	68.8	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	970		22.0	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	980		18.6	110	ug/Kg
118-74-1	Hexachlorobenzene	970		16.9	110	ug/Kg
1912-24-9	Atrazine	1200		22.7	110	ug/Kg
87-86-5	Pentachlorophenol	800		34.3	220	ug/Kg
85-01-8	Phenanthrene	950		14.0	110	ug/Kg
120-12-7	Anthracene	950		22.2	110	ug/Kg
86-74-8	Carbazole	960		20.8	110	ug/Kg
84-74-2	Di-n-butylphthalate	1100		32.0	110	ug/Kg
206-44-0	Fluoranthene	890		20.0	110	ug/Kg
129-00-0	Pyrene	900		24.0	110	ug/Kg
85-68-7	Butylbenzylphthalate	1200		47.7	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	230		24.5	220	ug/Kg
56-55-3	Benzo(a)anthracene	960		15.4	110	ug/Kg
218-01-9	Chrysene	940		13.3	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1000		39.5	110	ug/Kg
117-84-0	Di-n-octyl phthalate	870		58.0	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		12.7	110	ug/Kg

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207-08-9	Benzo(k)fluoranthene	960		15.0	110	ug/Kg
50-32-8	Benzo(a)pyrene	980		19.7	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	660		19.4	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	660		18.3	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	590		17.2	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	940		17.1	110	ug/Kg
123-91-1	1,4-Dioxane	820		30.2	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	810		18.3	110	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	72.2		18 - 112	48%	SPK: 150
13127-88-3	Phenol-d6	75.2		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.0		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.3		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	68.4		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	45.4		10 - 105	45%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	84900	6.875			
1146-65-2	Naphthalene-d8	323000	8.163			
15067-26-2	Acenaphthene-d10	169000	9.922			
1517-22-2	Phenanthrene-d10	278000	11.41			
1719-03-5	Chrysene-d12	150000	14.057			
1520-96-3	Perylene-d12	169000	15.545			

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