

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 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
BF143018.D	1	07/02/25 08:55	07/07/25 19:51	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.6	U	25.6	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.3	U	28.3	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.5	U	43.5	200	ug/Kg
98-86-2	Acetophenone	34.2	U	34.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.7	U	47.7	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.0	U	55.0	92.8	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.2	U	21.2	200	ug/Kg
78-59-1	Isophorone	38.0	U	38.0	200	ug/Kg
88-75-5	2-Nitrophenol	67.5	U	67.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.1	U	75.1	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.7	U	35.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.8	U	32.8	200	ug/Kg
91-20-3	Naphthalene	140	J	26.3	200	ug/Kg
106-47-8	4-Chloroaniline	41.1	U	41.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.3	U	29.3	200	ug/Kg
105-60-2	Caprolactam	60.4	U	60.4	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	170	J	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.7	U	33.7	200	ug/Kg
92-52-4	1,1-Biphenyl	130	J	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.8	U	55.8	200	ug/Kg
131-11-3	Dimethylphthalate	31.4	U	31.4	200	ug/Kg

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208-96-8	Acenaphthylene	230		33.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.0	U	39.0	200	ug/Kg
99-09-2	3-Nitroaniline	53.3	U	53.3	200	ug/Kg
83-32-9	Acenaphthene	510		24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	1200		26.3	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.1	U	58.1	200	ug/Kg
84-66-2	Diethylphthalate	32.8	U	32.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.0	U	31.0	200	ug/Kg
86-73-7	Fluorene	1500		29.3	200	ug/Kg
100-01-6	4-Nitroaniline	74.5	U	74.5	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.2	U	38.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.2	U	32.2	200	ug/Kg
118-74-1	Hexachlorobenzene	29.3	U	29.3	200	ug/Kg
1912-24-9	Atrazine	39.4	U	39.4	200	ug/Kg
87-86-5	Pentachlorophenol	59.5	U	59.5	380	ug/Kg
85-01-8	Phenanthrene	8100	E	24.2	200	ug/Kg
120-12-7	Anthracene	1600		38.6	200	ug/Kg
86-74-8	Carbazole	900		36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.5	U	55.5	200	ug/Kg
206-44-0	Fluoranthene	10800	E	34.8	200	ug/Kg
129-00-0	Pyrene	6200	E	41.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.8	UQ	82.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.6	U	42.6	380	ug/Kg
56-55-3	Benzo(a)anthracene	4400	E	26.7	200	ug/Kg
218-01-9	Chrysene	3600	E	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.7	U	68.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	5000	E	22.0	200	ug/Kg

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207-08-9	Benzo(k)fluoranthene	2100		26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	3300	E	34.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		33.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	450		31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		29.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.4	U	52.4	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	73.9		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	71.1		15 - 107	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.7		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	38.4		20 - 109	38%	SPK: 100
118-79-6	2,4,6-Tribromophenol	75.7		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	33.8		10 - 105	34%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	47800	6.875
1146-65-2	Naphthalene-d8	166000	8.157
15067-26-2	Acenaphthene-d10	87500	9.916
1517-22-2	Phenanthrene-d10	153000	11.41
1719-03-5	Chrysene-d12	121000	14.068
1520-96-3	Perylene-d12	91100	15.562

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB	5.09	ug/Kg
90-12-0	1-Methylnaphthalene	230	J	8.97	ug/Kg
000571-61-9	Naphthalene, 1,5-dimethyl-	230	J	9.50	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	270	J	9.57	ug/Kg
000582-16-1	Naphthalene, 2,7-dimethyl-	110	J	9.60	ug/Kg
000571-58-4	Naphthalene, 1,4-dimethyl-	150	J	9.69	ug/Kg
000829-26-5	Naphthalene, 2,3,6-trimethyl-	120	J	10.2	ug/Kg

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002245-38-7	Naphthalene, 1,6,7-trimethyl-	220	J		10.3	ug/Kg
000119-61-9	Benzophenone	610	J		10.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	97.0	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	160	J		12.0	ug/Kg
002381-21-7	Pyrene, 1-methyl-	150	J		13.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	150	J		13.2	ug/Kg
003353-12-6	Pyrene, 4-methyl-	120	J		13.3	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	130	J		13.7	ug/Kg
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	150	J		13.8	ug/Kg
027208-37-3	Cyclopenta[cd]pyrene	130	J		13.9	ug/Kg
000082-05-3	7H-Benz[de]anthracen-7-one	130	J		13.9	ug/Kg
000604-53-5	1,1-Binaphthalene	590	J		15.0	ug/Kg
000192-97-2	Benzo[e]pyrene	610	J		15.2	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