Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
Sample Wt/Vol:	30.05 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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	420	ug/Kg
108-95-2	Phenol	28.3	U	28.3	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.1	U	31.1	220	ug/Kg
95-57-8	2-Chlorophenol	31.2	U	31.2	220	ug/Kg
95-48-7	2-Methylphenol	38.3	U	38.3	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	48.0	U	48.0	220	ug/Kg
98-86-2	Acetophenone	37.8	U	37.8	220	ug/Kg
65794-96-9	3+4-Methylphenols	52.6	U	52.6	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	60.7	U	60.7	100	ug/Kg
67-72-1	Hexachloroethane	22.5	U	22.5	220	ug/Kg
98-95-3	Nitrobenzene	23.4	U	23.4	220	ug/Kg
78-59-1	Isophorone	42.0	U	42.0	220	ug/Kg
88-75-5	2-Nitrophenol	74.5	U	74.5	220	ug/Kg
105-67-9	2,4-Dimethylphenol	82.9	U	82.9	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	39.4	U	39.4	220	ug/Kg
120-83-2	2,4-Dichlorophenol	36.2	U	36.2	220	ug/Kg
91-20-3	Naphthalene	29.1	U	29.1	220	ug/Kg
106-47-8	4-Chloroaniline	45.3	U	45.3	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.4	U	32.4	220	ug/Kg
105-60-2	Caprolactam	66.7	U	66.7	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	36.7	U	36.7	220	ug/Kg
91-57-6	2-Methylnaphthalene	32.8	U	32.8	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.3	U	25.3	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	37.2	U	37.2	220	ug/Kg
92-52-4	1,1-Biphenyl	27.9	U	27.9	220	ug/Kg
91-58-7	2-Chloronaphthalene	28.8	U	28.8	220	ug/Kg
88-74-4	2-Nitroaniline	61.6	U	61.6	220	ug/Kg
131-11-3	Dimethylphthalate	34.7	U	34.7	220	ug/Kg

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208-96-8	Acenaphthylene	37.0	U	37.0	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.0	U	43.0	220	ug/Kg
99-09-2	3-Nitroaniline	58.9	U	58.9	220	ug/Kg
83-32-9	Acenaphthene	27.3	U	27.3	220	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	420	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	420	ug/Kg
132-64-9	Dibenzofuran	29.1	U	29.1	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	64.1	U	64.1	220	ug/Kg
84-66-2	Diethylphthalate	36.2	U	36.2	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.2	U	34.2	220	ug/Kg
86-73-7	Fluorene	32.4	U	32.4	220	ug/Kg
100-01-6	4-Nitroaniline	82.2	U	82.2	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.1	U	42.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	35.6	U	35.6	220	ug/Kg
118-74-1	Hexachlorobenzene	32.4	U	32.4	220	ug/Kg
1912-24-9	Atrazine	43.5	U	43.5	220	ug/Kg
87-86-5	Pentachlorophenol	65.7	U	65.7	420	ug/Kg
85-01-8	Phenanthrene	26.8	U	26.8	220	ug/Kg
120-12-7	Anthracene	42.6	U	42.6	220	ug/Kg
86-74-8	Carbazole	39.9	U	39.9	220	ug/Kg
84-74-2	Di-n-butylphthalate	61.3	U	61.3	220	ug/Kg
206-44-0	Fluoranthene	38.4	U	38.4	220	ug/Kg
129-00-0	Pyrene	46.1	U	46.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	91.4	U	91.4	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	47.0	U	47.0	420	ug/Kg
56-55-3	Benzo(a)anthracene	29.4	U	29.4	220	ug/Kg
218-01-9	Chrysene	25.5	U	25.5	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	75.8	U	75.8	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.3	U	24.3	220	ug/Kg

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207-08-9	Benzo(k)fluoranthene	28.7	U	28.7	220	ug/Kg
50-32-8	Benzo(a)pyrene	37.8	U	37.8	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	37.2	U	37.2	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.1	U	35.1	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	32.9	U	32.9	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	32.8	U	32.8	220	ug/Kg
123-91-1	1,4-Dioxane	57.9	U	57.9	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.1	U	35.1	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.9		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	81.2		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.9		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.9		20 - 109	45%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.7		10 - 116	56%	SPK: 150
1718-51-0	Terphenyl-d14	50.8		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	115000	6.898			
1146-65-2	Naphthalene-d8	439000	8.181			
15067-26-2	Acenaphthene-d10	235000	9.934			
1517-22-2	Phenanthrene-d10	407000	11.422			
1719-03-5	Chrysene-d12	208000	14.063			
1520-96-3	Perylene-d12	225000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.12	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	180	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	150	J		13.9	ug/Kg

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CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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