

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
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
BP024690.D	1	05/16/25 10:00	05/19/25 15:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	440	ug/Kg
108-95-2	Phenol	29.7	U	29.7	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	32.7	U	32.7	230	ug/Kg
95-57-8	2-Chlorophenol	32.8	U	32.8	230	ug/Kg
95-48-7	2-Methylphenol	40.2	U	40.2	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	50.5	U	50.5	230	ug/Kg
98-86-2	Acetophenone	39.7	U	39.7	230	ug/Kg
65794-96-9	3+4-Methylphenols	55.3	U	55.3	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	63.8	U	63.8	110	ug/Kg
67-72-1	Hexachloroethane	23.7	U	23.7	230	ug/Kg
98-95-3	Nitrobenzene	24.6	U	24.6	230	ug/Kg
78-59-1	Isophorone	44.1	U	44.1	230	ug/Kg
88-75-5	2-Nitrophenol	78.3	U	78.3	230	ug/Kg
105-67-9	2,4-Dimethylphenol	87.2	U	87.2	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	41.4	U	41.4	230	ug/Kg
120-83-2	2,4-Dichlorophenol	38.1	U	38.1	230	ug/Kg
91-20-3	Naphthalene	30.5	U	30.5	230	ug/Kg
106-47-8	4-Chloroaniline	47.6	U	47.6	230	ug/Kg
87-68-3	Hexachlorobutadiene	34.0	U	34.0	230	ug/Kg
105-60-2	Caprolactam	70.1	UQ	70.1	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	38.6	U	38.6	230	ug/Kg
91-57-6	2-Methylnaphthalene	34.4	U	34.4	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	26.6	U	26.6	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	39.2	U	39.2	230	ug/Kg
92-52-4	1,1-Biphenyl	29.3	U	29.3	230	ug/Kg
91-58-7	2-Chloronaphthalene	30.3	U	30.3	230	ug/Kg
88-74-4	2-Nitroaniline	64.7	U	64.7	230	ug/Kg
131-11-3	Dimethylphthalate	36.5	U	36.5	230	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
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
BP024690.D	1	05/16/25 10:00	05/19/25 15:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	38.9	U	38.9	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	45.2	U	45.2	230	ug/Kg
99-09-2	3-Nitroaniline	61.9	U	61.9	230	ug/Kg
83-32-9	Acenaphthene	28.7	U	28.7	230	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	440	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	440	ug/Kg
132-64-9	Dibenzofuran	30.5	U	30.5	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	67.4	U	67.4	230	ug/Kg
84-66-2	Diethylphthalate	38.1	U	38.1	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	35.9	U	35.9	230	ug/Kg
86-73-7	Fluorene	34.0	U	34.0	230	ug/Kg
100-01-6	4-Nitroaniline	86.4	U	86.4	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	44.3	U	44.3	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	37.4	U	37.4	230	ug/Kg
118-74-1	Hexachlorobenzene	34.0	U	34.0	230	ug/Kg
1912-24-9	Atrazine	45.7	U	45.7	230	ug/Kg
87-86-5	Pentachlorophenol	69.0	U	69.0	440	ug/Kg
85-01-8	Phenanthrene	28.1	U	28.1	230	ug/Kg
120-12-7	Anthracene	44.8	U	44.8	230	ug/Kg
86-74-8	Carbazole	42.0	U	42.0	230	ug/Kg
84-74-2	Di-n-butylphthalate	64.4	U	64.4	230	ug/Kg
206-44-0	Fluoranthene	40.4	U	40.4	230	ug/Kg
129-00-0	Pyrene	48.4	U	48.4	230	ug/Kg
85-68-7	Butylbenzylphthalate	96.1	U	96.1	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	49.4	U	49.4	440	ug/Kg
56-55-3	Benzo(a)anthracene	30.9	U	30.9	230	ug/Kg
218-01-9	Chrysene	26.8	U	26.8	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	79.7	U	79.7	230	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	25.6	U	25.6	230	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
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
BP024690.D	1	05/16/25 10:00	05/19/25 15:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	30.1	U	30.1	230	ug/Kg
50-32-8	Benzo(a)pyrene	39.7	U	39.7	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	39.2	U	39.2	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	36.9	U	36.9	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	34.6	U	34.6	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	34.4	U	34.4	230	ug/Kg
123-91-1	1,4-Dioxane	60.8	U	60.8	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	36.9	U	36.9	230	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	114		18 - 112	76%	SPK: 150
13127-88-3	Phenol-d6	107		15 - 107	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.4		18 - 107	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.0		20 - 109	67%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	75%	SPK: 150
1718-51-0	Terphenyl-d14	60.4		10 - 105	60%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	142000	7.651
1146-65-2	Naphthalene-d8	538000	10.422
15067-26-2	Acenaphthene-d10	309000	14.286
1517-22-2	Phenanthrene-d10	586000	17.092
1719-03-5	Chrysene-d12	715000	21.521
1520-96-3	Perylene-d12	916000	24.815

TENTATIVE IDENTIFIED COMPOUNDS

000057-55-6	Propylene Glycol	130	J	3.47	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	AB	4.82	ug/Kg
000770-35-4	1-Phenoxypropan-2-ol	180	J	11.2	ug/Kg
	unknown14.498	680	J	14.5	ug/Kg
	unknown14.522	1000	J	14.5	ug/Kg
000119-61-9	Benzophenone	96.4	J	15.7	ug/Kg
000057-11-4	Octadecanoic acid	1400	J	16.0	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
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
		Final Vol:	1000 uL
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024690.D	1	05/16/25 10:00	05/19/25 15:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000057-10-3	n-Hexadecanoic acid	1200	J		18.0	ug/Kg
001002-84-2	Pentadecanoic acid	390	J		19.4	ug/Kg
010192-32-2	1-Tetracosene	220	J		21.2	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