

Hit Summary Sheet
SW-846

SDG No.: Q2032
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-11							
Q2032-01	TP-11	SOIL	Cyclohexane	42.1		0.84	5.30	ug/Kg
Q2032-01	TP-11	SOIL	Methylcyclohexane	210	E	0.97	5.30	ug/Kg
			Total Voc :			252		
Q2032-01	TP-11	SOIL	unknown14.858	* 120	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Pentane, 3-methyl-	* 140	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Benzene, 1,2,3,5-tetramethyl-	* 110	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Pentane, 2,3-dimethyl-	* 130	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Heptane, 4-methyl-	* 120	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Cyclopentane, 1,2-dimethyl-, ci	* 140	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Benzene, 1-methyl-2-(2-propen	* 110	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Benzene, 2-ethyl-1,4-dimethyl-	* 150	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Cyclopentane, 1,3-dimethyl-	* 140	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Benzene, 1-methyl-4-(1-methyl	* 120	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	n-Butylbenzene	* 6.60	J	1.50	5.30	ug/Kg
			Total Tics :			1290		
			Total Concentration:			1540		
Client ID:	TP-11ME							
Q2032-01ME	TP-11ME	SOIL	Methylcyclohexane	310	JD	86.6	480	ug/Kg
			Total Voc :			310		
			Total Concentration:			310		
Client ID:	TP-24							
Q2032-04	TP-24	SOIL	Acetone	34.9		5.00	26.4	ug/Kg
			Total Voc :			34.9		
Q2032-04	TP-24	SOIL	Butane, 2-methyl-	* 5.80	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Butane	* 7.10	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Pentane	* 5.70	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	n-Hexane	* 11.9	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Heptane	* 9.50	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Hexane, 3-methyl-	* 11.2	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Heptane, 3-methyl-	* 6.40	J	0	0	ug/Kg
			Total Tics :			57.6		
			Total Concentration:			92.5		
Client ID:	TP-37							
Q2032-07	TP-37	SOIL	Acetone	25.2		3.50	18.6	ug/Kg
Q2032-07	TP-37	SOIL	2-Butanone	4.90	J	4.90	18.6	ug/Kg
			Total Voc :			30.1		
			Total Concentration:			30.1		

A
B
C
D

Hit Summary Sheet
SW-846

SDG No.: Q2032

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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A

B

C

D



SAMPLE DATA

A

B

C

D

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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022347.D	1		05/20/25 16:56	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.30	ug/Kg
74-87-3	Chloromethane	1.20	UQ	1.20	5.30	ug/Kg
75-01-4	Vinyl Chloride	0.84	UQ	0.84	5.30	ug/Kg
74-83-9	Bromomethane	1.10	UQ	1.10	5.30	ug/Kg
75-00-3	Chloroethane	1.30	UQ	1.30	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	UQ	1.30	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.30	ug/Kg
67-64-1	Acetone	5.10	U	5.10	26.7	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.78	U	0.78	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.80	U	3.80	10.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.92	U	0.92	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.85	U	0.85	5.30	ug/Kg
110-82-7	Cyclohexane	42.1		0.84	5.30	ug/Kg
78-93-3	2-Butanone	7.00	U	7.00	26.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.90	U	0.90	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	5.30	ug/Kg
108-87-2	Methylcyclohexane	210	E	0.97	5.30	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.97	U	0.97	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.7	ug/Kg
108-88-3	Toluene	0.83	U	0.83	5.30	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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.14	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022347.D	1		05/20/25 16:56	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.66	U	0.66	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.7	ug/Kg
124-48-1	Dibromochloromethane	0.93	U	0.93	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.94	U	0.94	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.97	U	0.97	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.72	U	0.72	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.7	ug/Kg
95-47-6	o-Xylene	0.88	U	0.88	5.30	ug/Kg
100-42-5	Styrene	0.76	U	0.76	5.30	ug/Kg
75-25-2	Bromoform	0.92	U	0.92	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.30	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.2	63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3	70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	62.4	* 74 - 123	125%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0	38 - 136	112%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	244000	7.707
540-36-3	1,4-Difluorobenzene	428000	8.616
3114-55-4	Chlorobenzene-d5	381000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

D

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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022347.D	1		05/20/25 16:56	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000096-14-0	Pentane, 3-methyl-	140	J		5.13	ug/Kg
000565-59-3	Pentane, 2,3-dimethyl-	130	J		7.79	ug/Kg
002453-00-1	Cyclopentane, 1,3-dimethyl-	140	J		8.20	ug/Kg
001192-18-3	Cyclopentane, 1,2-dimethyl-, cis-	140	J		8.26	ug/Kg
000589-53-7	Heptane, 4-methyl-	120	J		9.68	ug/Kg
104-51-8	n-Butylbenzene	6.60	J		13.6	ug/Kg
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	150	J		13.9	ug/Kg
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	110	J		14.2	ug/Kg
001587-04-8	Benzene, 1-methyl-2-(2-propenyl)-	110	J		14.6	ug/Kg
	unknown14.858	120	J		14.9	ug/Kg
097664-18-1	Benzene, 1-methyl-4-(1-methyl-2-pr	120	J		15.0	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

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-11ME	SDG No.:	Q2032
Lab Sample ID:	Q2032-01ME	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.89 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086744.D	1		05/21/25 20:18	VN052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	110	UD	110	480	ug/Kg
74-87-3	Chloromethane	110	UD	110	480	ug/Kg
75-01-4	Vinyl Chloride	75.1	UD	75.1	480	ug/Kg
74-83-9	Bromomethane	100	UD	100	480	ug/Kg
75-00-3	Chloroethane	120	UD	120	480	ug/Kg
75-69-4	Trichlorofluoromethane	120	UD	120	480	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	100	UD	100	480	ug/Kg
75-35-4	1,1-Dichloroethene	95.1	UD	95.1	480	ug/Kg
67-64-1	Acetone	450	UD	450	2400	ug/Kg
75-15-0	Carbon Disulfide	100	UD	100	480	ug/Kg
1634-04-4	Methyl tert-butyl Ether	69.4	UD	69.4	480	ug/Kg
79-20-9	Methyl Acetate	150	UD	150	480	ug/Kg
75-09-2	Methylene Chloride	340	UD	340	950	ug/Kg
156-60-5	trans-1,2-Dichloroethene	81.8	UD	81.8	480	ug/Kg
75-34-3	1,1-Dichloroethane	76.1	UD	76.1	480	ug/Kg
110-82-7	Cyclohexane	75.1	UD	75.1	480	ug/Kg
78-93-3	2-Butanone	620	UD	620	2400	ug/Kg
56-23-5	Carbon Tetrachloride	92.3	UD	92.3	480	ug/Kg
156-59-2	cis-1,2-Dichloroethene	71.3	UD	71.3	480	ug/Kg
74-97-5	Bromochloromethane	110	UD	110	480	ug/Kg
67-66-3	Chloroform	79.9	UD	79.9	480	ug/Kg
71-55-6	1,1,1-Trichloroethane	88.5	UD	88.5	480	ug/Kg
108-87-2	Methylcyclohexane	310	JD	86.6	480	ug/Kg
71-43-2	Benzene	75.1	UD	75.1	480	ug/Kg
107-06-2	1,2-Dichloroethane	75.1	UD	75.1	480	ug/Kg
79-01-6	Trichloroethene	77.0	UD	77.0	480	ug/Kg
78-87-5	1,2-Dichloropropane	86.6	UD	86.6	480	ug/Kg
75-27-4	Bromodichloromethane	74.2	UD	74.2	480	ug/Kg
108-10-1	4-Methyl-2-Pentanone	340	UD	340	2400	ug/Kg
108-88-3	Toluene	74.2	UD	74.2	480	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-11ME		SDG No.:	Q2032	
Lab Sample ID:	Q2032-01ME		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	76.3	
Sample Wt/Vol:	6.89	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:	100	uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	MED	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086744.D	1		05/21/25 20:18	VN052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	61.8	UD	61.8	480	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	59.0	UD	59.0	480	ug/Kg
79-00-5	1,1,2-Trichloroethane	87.5	UD	87.5	480	ug/Kg
591-78-6	2-Hexanone	350	UD	350	2400	ug/Kg
124-48-1	Dibromochloromethane	82.7	UD	82.7	480	ug/Kg
106-93-4	1,2-Dibromoethane	83.7	UD	83.7	480	ug/Kg
127-18-4	Tetrachloroethene	99.9	UD	99.9	480	ug/Kg
108-90-7	Chlorobenzene	86.6	UD	86.6	480	ug/Kg
100-41-4	Ethyl Benzene	63.7	UD	63.7	480	ug/Kg
179601-23-1	m/p-Xylenes	120	UD	120	950	ug/Kg
95-47-6	o-Xylene	78.0	UD	78.0	480	ug/Kg
100-42-5	Styrene	67.5	UD	67.5	480	ug/Kg
75-25-2	Bromoform	81.8	UD	81.8	480	ug/Kg
98-82-8	Isopropylbenzene	74.2	UD	74.2	480	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	120	UD	120	480	ug/Kg
541-73-1	1,3-Dichlorobenzene	160	UD	160	480	ug/Kg
106-46-7	1,4-Dichlorobenzene	150	UD	150	480	ug/Kg
95-50-1	1,2-Dichlorobenzene	140	UD	140	480	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	180	UD	180	480	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	280	UD	280	480	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	300	UD	300	480	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.6		63 - 155	87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	51.6		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		38 - 136	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	229000	8.218			
540-36-3	1,4-Difluorobenzene	425000	9.094			
3114-55-4	Chlorobenzene-d5	399000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	173000	13.788			

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-11ME	SDG No.:	Q2032
Lab Sample ID:	Q2032-01ME	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.89 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086744.D	1		05/21/25 20:18	VN052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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

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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.1
Sample Wt/Vol:	8.23 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022342.D	1		05/20/25 14:59	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.80	U	0.80	3.50	ug/Kg
74-87-3	Chloromethane	0.80	UQ	0.80	3.50	ug/Kg
75-01-4	Vinyl Chloride	0.56	UQ	0.56	3.50	ug/Kg
74-83-9	Bromomethane	0.76	UQ	0.76	3.50	ug/Kg
75-00-3	Chloroethane	0.89	UQ	0.89	3.50	ug/Kg
75-69-4	Trichlorofluoromethane	0.85	UQ	0.85	3.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.75	U	0.75	3.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.71	U	0.71	3.50	ug/Kg
67-64-1	Acetone	3.30	U	3.30	17.6	ug/Kg
75-15-0	Carbon Disulfide	0.75	U	0.75	3.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.52	U	0.52	3.50	ug/Kg
79-20-9	Methyl Acetate	1.10	U	1.10	3.50	ug/Kg
75-09-2	Methylene Chloride	2.50	U	2.50	7.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.61	U	0.61	3.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.56	U	0.56	3.50	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	3.50	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	17.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.68	U	0.68	3.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.53	U	0.53	3.50	ug/Kg
74-97-5	Bromochloromethane	0.81	U	0.81	3.50	ug/Kg
67-66-3	Chloroform	0.59	U	0.59	3.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.66	U	0.66	3.50	ug/Kg
108-87-2	Methylcyclohexane	0.64	U	0.64	3.50	ug/Kg
71-43-2	Benzene	0.56	U	0.56	3.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.56	U	0.56	3.50	ug/Kg
79-01-6	Trichloroethene	0.57	U	0.57	3.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.64	U	0.64	3.50	ug/Kg
75-27-4	Bromodichloromethane	0.55	U	0.55	3.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.50	U	2.50	17.6	ug/Kg
108-88-3	Toluene	0.55	U	0.55	3.50	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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.1
Sample Wt/Vol:	8.23	Units: g	Final Vol: 5000 uL
Soil Aliquot Vol:		uL	Test: VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level : LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022342.D	1		05/20/25 14:59	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.46	U	0.46	3.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.44	U	0.44	3.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.65	U	0.65	3.50	ug/Kg
591-78-6	2-Hexanone	2.60	U	2.60	17.6	ug/Kg
124-48-1	Dibromochloromethane	0.61	U	0.61	3.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.62	U	0.62	3.50	ug/Kg
127-18-4	Tetrachloroethene	0.74	U	0.74	3.50	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	3.50	ug/Kg
100-41-4	Ethyl Benzene	0.47	U	0.47	3.50	ug/Kg
179601-23-1	m/p-Xylenes	0.87	U	0.87	7.10	ug/Kg
95-47-6	o-Xylene	0.58	U	0.58	3.50	ug/Kg
100-42-5	Styrene	0.50	U	0.50	3.50	ug/Kg
75-25-2	Bromoform	0.61	U	0.61	3.50	ug/Kg
98-82-8	Isopropylbenzene	0.55	U	0.55	3.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.85	3.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.20	U	1.20	3.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.10	U	1.10	3.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.00	U	1.00	3.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	3.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.10	U	2.10	3.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.20	U	2.20	3.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.5		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		38 - 136	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	243000	7.707			
540-36-3	1,4-Difluorobenzene	439000	8.616			
3114-55-4	Chlorobenzene-d5	347000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.346			

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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.1
Sample Wt/Vol:	8.23	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022342.D	1		05/20/25 14:59	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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

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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	7.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022294.D	1		05/16/25 16:25	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.90	U	0.90	3.90	ug/Kg
74-87-3	Chloromethane	0.90	U	0.90	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	3.90	ug/Kg
74-83-9	Bromomethane	0.84	U	0.84	3.90	ug/Kg
75-00-3	Chloroethane	0.99	U	0.99	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.95	U	0.95	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.83	U	0.83	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.79	U	0.79	3.90	ug/Kg
67-64-1	Acetone	3.70	U	3.70	19.6	ug/Kg
75-15-0	Carbon Disulfide	0.83	U	0.83	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.57	U	0.57	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	7.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	3.90	ug/Kg
110-82-7	Cyclohexane	0.62	U	0.62	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	3.90	ug/Kg
74-97-5	Bromochloromethane	0.90	U	0.90	3.90	ug/Kg
67-66-3	Chloroform	0.66	U	0.66	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.72	U	0.72	3.90	ug/Kg
71-43-2	Benzene	0.62	U	0.62	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
79-01-6	Trichloroethene	0.64	U	0.64	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.72	U	0.72	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.6	ug/Kg
108-88-3	Toluene	0.61	U	0.61	3.90	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-29-99		SDG No.:	Q2032	
Lab Sample ID:	Q2032-03		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	86.8	
Sample Wt/Vol:	7.33	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022294.D	1		05/16/25 16:25	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.51	U	0.51	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.6	ug/Kg
124-48-1	Dibromochloromethane	0.68	U	0.68	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.83	U	0.83	3.90	ug/Kg
108-90-7	Chlorobenzene	0.72	U	0.72	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.97	U	0.97	7.90	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	3.90	ug/Kg
100-42-5	Styrene	0.56	U	0.56	3.90	ug/Kg
75-25-2	Bromoform	0.68	U	0.68	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.9		38 - 136	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	265000	7.707			
540-36-3	1,4-Difluorobenzene	475000	8.61			
3114-55-4	Chlorobenzene-d5	385000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.347			

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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	7.33	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022294.D	1		05/16/25 16:25	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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

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:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022295.D	1		05/16/25 16:48	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.30	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.30	ug/Kg
75-01-4	Vinyl Chloride	0.83	U	0.83	5.30	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.30	ug/Kg
67-64-1	Acetone	34.9		5.00	26.4	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.77	U	0.77	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.91	U	0.91	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
110-82-7	Cyclohexane	0.83	U	0.83	5.30	ug/Kg
78-93-3	2-Butanone	6.90	U	6.90	26.4	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.79	U	0.79	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.89	U	0.89	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
108-87-2	Methylcyclohexane	0.96	U	0.96	5.30	ug/Kg
71-43-2	Benzene	0.83	U	0.83	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.83	U	0.83	5.30	ug/Kg
79-01-6	Trichloroethene	0.85	U	0.85	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.96	U	0.96	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.82	U	0.82	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.4	ug/Kg
108-88-3	Toluene	0.82	U	0.82	5.30	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:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.39	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022295.D	1		05/16/25 16:48	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.65	U	0.65	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.97	U	0.97	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.4	ug/Kg
124-48-1	Dibromochloromethane	0.92	U	0.92	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.93	U	0.93	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.96	U	0.96	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.5	ug/Kg
95-47-6	o-Xylene	0.86	U	0.86	5.30	ug/Kg
100-42-5	Styrene	0.75	U	0.75	5.30	ug/Kg
75-25-2	Bromoform	0.91	U	0.91	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.82	U	0.82	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.30	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.9	63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2	70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.1	74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.4	38 - 136	87%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	266000	7.707
540-36-3	1,4-Difluorobenzene	477000	8.616
3114-55-4	Chlorobenzene-d5	397000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	154000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

C

D

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:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022295.D	1		05/16/25 16:48	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000106-97-8	Butane	7.10	J		2.20	ug/Kg
000078-78-4	Butane, 2-methyl-	5.80	J		2.84	ug/Kg
000109-66-0	Pentane	5.70	J		3.18	ug/Kg
000110-54-3	n-Hexane	11.9	J		5.64	ug/Kg
000589-34-4	Hexane, 3-methyl-	11.2	J		7.92	ug/Kg
000142-82-5	Heptane	9.50	J		8.47	ug/Kg
000589-81-1	Heptane, 3-methyl-	6.40	J		9.89	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

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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	8.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022296.D	1		05/16/25 17:12	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.85	U	0.85	3.70	ug/Kg
74-87-3	Chloromethane	0.85	U	0.85	3.70	ug/Kg
75-01-4	Vinyl Chloride	0.59	U	0.59	3.70	ug/Kg
74-83-9	Bromomethane	0.80	U	0.80	3.70	ug/Kg
75-00-3	Chloroethane	0.94	U	0.94	3.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.90	U	0.90	3.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.79	U	0.79	3.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.75	U	0.75	3.70	ug/Kg
67-64-1	Acetone	25.2		3.50	18.6	ug/Kg
75-15-0	Carbon Disulfide	0.79	U	0.79	3.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.54	U	0.54	3.70	ug/Kg
79-20-9	Methyl Acetate	1.10	U	1.10	3.70	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.64	U	0.64	3.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.60	U	0.60	3.70	ug/Kg
110-82-7	Cyclohexane	0.59	U	0.59	3.70	ug/Kg
78-93-3	2-Butanone	4.90	J	4.90	18.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.72	U	0.72	3.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	3.70	ug/Kg
74-97-5	Bromochloromethane	0.86	U	0.86	3.70	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	3.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.69	U	0.69	3.70	ug/Kg
108-87-2	Methylcyclohexane	0.68	U	0.68	3.70	ug/Kg
71-43-2	Benzene	0.59	U	0.59	3.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.59	U	0.59	3.70	ug/Kg
79-01-6	Trichloroethene	0.60	U	0.60	3.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.68	U	0.68	3.70	ug/Kg
75-27-4	Bromodichloromethane	0.58	U	0.58	3.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.70	U	2.70	18.6	ug/Kg
108-88-3	Toluene	0.58	U	0.58	3.70	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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	8.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022296.D	1		05/16/25 17:12	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.48	U	0.48	3.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	3.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.69	U	0.69	3.70	ug/Kg
591-78-6	2-Hexanone	2.80	U	2.80	18.6	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	3.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.66	U	0.66	3.70	ug/Kg
127-18-4	Tetrachloroethene	0.78	U	0.78	3.70	ug/Kg
108-90-7	Chlorobenzene	0.68	U	0.68	3.70	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	3.70	ug/Kg
179601-23-1	m/p-Xylenes	0.92	U	0.92	7.50	ug/Kg
95-47-6	o-Xylene	0.61	U	0.61	3.70	ug/Kg
100-42-5	Styrene	0.53	U	0.53	3.70	ug/Kg
75-25-2	Bromoform	0.64	U	0.64	3.70	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	3.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.90	U	0.90	3.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.20	U	2.20	3.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.40	U	2.40	3.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.5		38 - 136	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	265000	7.707			
540-36-3	1,4-Difluorobenzene	475000	8.609			
3114-55-4	Chlorobenzene-d5	382000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	140000	13.346			

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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	8.13	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022296.D	1		05/16/25 17:12	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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

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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	6.28 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022297.D	1		05/16/25 17:35	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.60	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.60	ug/Kg
74-83-9	Bromomethane	0.98	U	0.98	4.60	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.97	U	0.97	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.92	U	0.92	4.60	ug/Kg
67-64-1	Acetone	4.30	U	4.30	22.9	ug/Kg
75-15-0	Carbon Disulfide	0.97	U	0.97	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.79	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
110-82-7	Cyclohexane	0.72	U	0.72	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	22.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.89	U	0.89	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.69	U	0.69	4.60	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.60	ug/Kg
67-66-3	Chloroform	0.77	U	0.77	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.83	U	0.83	4.60	ug/Kg
71-43-2	Benzene	0.72	U	0.72	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	4.60	ug/Kg
79-01-6	Trichloroethene	0.74	U	0.74	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.83	U	0.83	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.72	U	0.72	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	22.9	ug/Kg
108-88-3	Toluene	0.72	U	0.72	4.60	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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	6.28 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022297.D	1		05/16/25 17:35	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	22.9	ug/Kg
124-48-1	Dibromochloromethane	0.80	U	0.80	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.81	U	0.81	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.96	U	0.96	4.60	ug/Kg
108-90-7	Chlorobenzene	0.83	U	0.83	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.61	U	0.61	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.20	ug/Kg
95-47-6	o-Xylene	0.75	U	0.75	4.60	ug/Kg
100-42-5	Styrene	0.65	U	0.65	4.60	ug/Kg
75-25-2	Bromoform	0.79	U	0.79	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.72	U	0.72	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	48.8		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.8		38 - 136	78%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	262000	7.707			
540-36-3	1,4-Difluorobenzene	463000	8.61			
3114-55-4	Chlorobenzene-d5	368000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.347			

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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	6.28	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022297.D	1		05/16/25 17:35	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046204.D	1		05/15/25 11:25	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046204.D	1		05/15/25 11:25	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.8		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	50.8		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	61900	5.55			
540-36-3	1,4-Difluorobenzene	121000	6.757			
3114-55-4	Chlorobenzene-d5	117000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	46300	12.018			



- A
- B
- C
- D

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046204.D	1		05/15/25 11:25	VX051525

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TB	SDG No.:	Q2032
Lab Sample ID:	Q2032-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046205.D	1		05/15/25 11:48	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TB	SDG No.:	Q2032
Lab Sample ID:	Q2032-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046205.D	1		05/15/25 11:48	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.0		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	61800	5.55			
540-36-3	1,4-Difluorobenzene	124000	6.757			
3114-55-4	Chlorobenzene-d5	117000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	46800	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TB	SDG No.:	Q2032
Lab Sample ID:	Q2032-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046205.D	1		05/15/25 11:48	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/20/25	05/13/25
Q2032-01ME	TP-11ME	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/21/25	05/13/25
Q2032-02	TP-29	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/20/25	05/13/25
Q2032-03	TP-29-99	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/16/25	05/13/25
Q2032-04	TP-24	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/16/25	05/13/25
Q2032-07	TP-37	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/16/25	05/13/25
Q2032-08	TP-32	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/16/25	05/13/25
Q2032-09	COMP-1	TCLP	TCLP VOA	8260D	05/13/25		05/15/25	05/13/25
Q2032-11	FB-05132025	Water	VOC-TCLVOA-10	8260-Low	05/13/25		05/15/25	05/13/25
Q2032-12	TB	Water	VOC-TCLVOA-10	8260-Low	05/13/25		05/15/25	05/13/25



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

Hit Summary Sheet
SW-846

SDG No.: Q2032
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q2032-09	COMP-1 COMP-1	TCLP	2-Butanone	9.60	J	0.98	25.0	ug/L
			Total Voc :	9.60				
			Total Concentration:	9.60				



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	COMP-1	SDG No.:	Q2032
Lab Sample ID:	Q2032-09	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046220.D	1		05/15/25 17:41	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	9.60	J	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		74 - 125	112%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	50.8		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60800	5.55			
540-36-3	1,4-Difluorobenzene	125000	6.757			
3114-55-4	Chlorobenzene-d5	117000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	49800	12.018			

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



LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-09	COMP-1	TCLP	TCLP VOA	8260D	05/13/25		05/15/25	05/13/25



A

B

C

SAMPLE DATA

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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	76.3
Sample Wt/Vol:	4.26	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031769.D	50	05/16/25 13:57	FB051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	1750	J	635	3460	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.9		50 - 150	94%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.1
Sample Wt/Vol:	6.88	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031756.D	1	05/15/25 15:40	FB051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	7.00	U	7.00	38.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.7		50 - 150	88%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.8
Sample Wt/Vol:	6.6	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		PH :	
Prep Method :		Decanted:	
		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031768.D	1	05/16/25 13:29	FB051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	21.0	J	7.00	39.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.5		50 - 150	102%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 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
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

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:	8015D GRO	% Solid:	74.2
Sample Wt/Vol:	6.46	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031752.D	1	05/15/25 13:26	FB051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	J	9.00	47.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.9		50 - 150	99%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	82.5
Sample Wt/Vol:	5.91	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031764.D	1	05/16/25 10:40	FB051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	46.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	21.3		50 - 150	106%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 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
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.8
Sample Wt/Vol:	7	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031765.D	1	05/16/25 11:08	FB051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	7.00	U	7.00	37.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.9		50 - 150	84%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031745.D	1	05/14/25 15:07	FB051425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	8.00	J	6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.7		50 - 150	104%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL	Gasoline Range Organics	8015D	05/13/25		05/16/25	05/13/25
Q2032-02	TP-29	SOIL	Gasoline Range Organics	8015D	05/13/25		05/15/25	05/13/25
Q2032-03	TP-29-99	SOIL	Gasoline Range Organics	8015D	05/13/25		05/16/25	05/13/25
Q2032-04	TP-24	SOIL	Gasoline Range Organics	8015D	05/13/25		05/15/25	05/13/25
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-07	TP-37	SOIL	Gasoline Range Organics	8015D	05/13/25		05/16/25	05/13/25
Q2032-08	TP-32	SOIL	Gasoline Range Organics	8015D	05/13/25		05/16/25	05/13/25
Q2032-11	FB-05132025	Water	Gasoline Range Organics	8015D	05/13/25		05/14/25	05/13/25

Hit Summary Sheet SW-846

SDG No.: Q2032
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-11								
Q2032-01	TP-11	SOIL	Bis(2-ethylhexyl)phthalate	190.000	J	77.4	220	ug/Kg
Total Svoc :				190.00				
Q2032-01	TP-11	SOIL	Isopropyl Alcohol	*	160.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	n-Hexadecanoic acid	*	380.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	Octadecanoic acid	*	140.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	Trichloroacetic acid, hexadecyl es	*	130.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	unknown10.028	*	130.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	1-Phenoxypropan-2-ol	*	170.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	240.000	AB	0	ug/Kg
Total Tics :				1,350.00				
Total Concentration:				1,540.00				
Client ID : TP-29								
Q2032-02	TP-29	SOIL	(S)-(+)-1,2-Propanediol	*	88.100	J	0	ug/Kg
Q2032-02	TP-29	SOIL	1-Heneicosanol	*	98.500	J	0	ug/Kg
Q2032-02	TP-29	SOIL	1-Phenoxypropan-2-ol	*	98.500	J	0	ug/Kg
Q2032-02	TP-29	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	ug/Kg
Q2032-02	TP-29	SOIL	n-Hexadecanoic acid	*	130.000	J	0	ug/Kg
Q2032-02	TP-29	SOIL	unknown10.033	*	2,100.000	J	0	ug/Kg
Total Tics :				2,765.10				
Total Concentration:				2,765.10				
Client ID : TP-29-99								
Q2032-03	TP-29-99	SOIL	1-Propanol, 3-phenoxy-	*	120.000	J	0	ug/Kg
Q2032-03	TP-29-99	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	ug/Kg
Q2032-03	TP-29-99	SOIL	Heptafluorobutyric acid, hexadecyl	*	120.000	J	0	ug/Kg
Q2032-03	TP-29-99	SOIL	n-Hexadecanoic acid	*	150.000	J	0	ug/Kg
Q2032-03	TP-29-99	SOIL	unknown10.034	*	1,200.000	J	0	ug/Kg
Q2032-03	TP-29-99	SOIL	unknown3.422	*	150.000	J	0	ug/Kg
Total Tics :				1,990.00				
Total Concentration:				1,990.00				
Client ID : TP-24								
Q2032-04	TP-24	SOIL	1-Phenoxypropan-2-ol	*	180.000	J	0	ug/Kg
Q2032-04	TP-24	SOIL	1-Tetracosene	*	220.000	J	0	ug/Kg
Q2032-04	TP-24	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	310.000	AB	0	ug/Kg
Q2032-04	TP-24	SOIL	Benzophenone	*	96.400	J	0	ug/Kg
Q2032-04	TP-24	SOIL	n-Hexadecanoic acid	*	1,200.000	J	0	ug/Kg
Q2032-04	TP-24	SOIL	Octadecanoic acid	*	1,400.000	J	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q2032
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2032-04	TP-24	SOIL	Pentadecanoic acid	*	390.000	J 0	0	ug/Kg
Q2032-04	TP-24	SOIL	Propylene Glycol	*	130.000	J 0	0	ug/Kg
Q2032-04	TP-24	SOIL	unknown14.498	*	680.000	J 0	0	ug/Kg
Q2032-04	TP-24	SOIL	unknown14.522	*	1,000.000	J 0	0	ug/Kg
Total Tics :				5,606.40				
Total Concentration:				5,606.40				
Client ID : TP-37								
Q2032-07	TP-37	SOIL	1-Phenoxypropan-2-ol	*	130.000	J 0	0	ug/Kg
Q2032-07	TP-37	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB 0	0	ug/Kg
Q2032-07	TP-37	SOIL	n-Hexadecanoic acid	*	240.000	J 0	0	ug/Kg
Q2032-07	TP-37	SOIL	Trichloroacetic acid, hexadecyl es	*	230.000	J 0	0	ug/Kg
Q2032-07	TP-37	SOIL	unknown10.028	*	140.000	J 0	0	ug/Kg
Q2032-07	TP-37	SOIL	unknown3.422	*	170.000	J 0	0	ug/Kg
Total Tics :				1,160.00				
Total Concentration:				1,160.00				
Client ID : TP-32								
Q2032-08	TP-32	SOIL	1-Propanol, 3-phenoxy-	*	95.100	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB 0	0	ug/Kg
Q2032-08	TP-32	SOIL	Heptafluorobutyric acid, hexadecyl	*	160.000	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	n-Hexadecanoic acid	*	380.000	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	Octadecanoic acid	*	110.000	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	unknown10.034	*	1,700.000	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	unknown3.422	*	100.000	J 0	0	ug/Kg
Total Tics :				2,795.10				
Total Concentration:				2,795.10				
Client ID : FB-05132025								
Q2032-11	FB-05132025	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	3.700	AB 0	0	ug/L
Q2032-11	FB-05132025	WATER	9-Octadecenoic acid, (E)-	*	2.800	J 0	0	ug/L
Total Tics :				6.50				
Total Concentration:				6.50				



SAMPLE DATA

A

B

C

D

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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.3
Sample Wt/Vol:	30.07 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
BF142446.D	1	05/16/25 10:00	05/19/25 12:39	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	430	ug/Kg
108-95-2	Phenol	28.9	U	28.9	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.8	U	31.8	220	ug/Kg
95-57-8	2-Chlorophenol	31.9	U	31.9	220	ug/Kg
95-48-7	2-Methylphenol	39.1	U	39.1	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	49.0	U	49.0	220	ug/Kg
98-86-2	Acetophenone	38.6	U	38.6	220	ug/Kg
65794-96-9	3+4-Methylphenols	53.7	U	53.7	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	62.0	U	62.0	100	ug/Kg
67-72-1	Hexachloroethane	23.0	U	23.0	220	ug/Kg
98-95-3	Nitrobenzene	23.9	U	23.9	220	ug/Kg
78-59-1	Isophorone	42.9	U	42.9	220	ug/Kg
88-75-5	2-Nitrophenol	76.1	U	76.1	220	ug/Kg
105-67-9	2,4-Dimethylphenol	84.7	U	84.7	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	40.3	U	40.3	220	ug/Kg
120-83-2	2,4-Dichlorophenol	37.0	U	37.0	220	ug/Kg
91-20-3	Naphthalene	29.7	U	29.7	220	ug/Kg
106-47-8	4-Chloroaniline	46.3	U	46.3	220	ug/Kg
87-68-3	Hexachlorobutadiene	33.1	U	33.1	220	ug/Kg
105-60-2	Caprolactam	68.1	UQ	68.1	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	37.5	U	37.5	220	ug/Kg
91-57-6	2-Methylnaphthalene	33.5	U	33.5	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.9	U	25.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	38.1	U	38.1	220	ug/Kg
92-52-4	1,1-Biphenyl	28.5	U	28.5	220	ug/Kg
91-58-7	2-Chloronaphthalene	29.4	U	29.4	220	ug/Kg
88-74-4	2-Nitroaniline	62.9	U	62.9	220	ug/Kg
131-11-3	Dimethylphthalate	35.4	U	35.4	220	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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.3
Sample Wt/Vol:	30.07 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
BF142446.D	1	05/16/25 10:00	05/19/25 12:39	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.8	U	37.8	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.9	U	43.9	220	ug/Kg
99-09-2	3-Nitroaniline	60.1	U	60.1	220	ug/Kg
83-32-9	Acenaphthene	27.9	U	27.9	220	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	430	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	430	ug/Kg
132-64-9	Dibenzofuran	29.7	U	29.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	65.5	U	65.5	220	ug/Kg
84-66-2	Diethylphthalate	37.0	U	37.0	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.9	U	34.9	220	ug/Kg
86-73-7	Fluorene	33.1	U	33.1	220	ug/Kg
100-01-6	4-Nitroaniline	83.9	U	83.9	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	43.0	U	43.0	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	36.4	U	36.4	220	ug/Kg
118-74-1	Hexachlorobenzene	33.1	U	33.1	220	ug/Kg
1912-24-9	Atrazine	44.5	U	44.5	220	ug/Kg
87-86-5	Pentachlorophenol	67.1	U	67.1	430	ug/Kg
85-01-8	Phenanthrene	27.3	U	27.3	220	ug/Kg
120-12-7	Anthracene	43.5	U	43.5	220	ug/Kg
86-74-8	Carbazole	40.8	U	40.8	220	ug/Kg
84-74-2	Di-n-butylphthalate	62.6	U	62.6	220	ug/Kg
206-44-0	Fluoranthene	39.2	U	39.2	220	ug/Kg
129-00-0	Pyrene	47.1	U	47.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	93.4	U	93.4	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	48.0	U	48.0	430	ug/Kg
56-55-3	Benzo(a)anthracene	30.1	U	30.1	220	ug/Kg
218-01-9	Chrysene	26.0	U	26.0	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	J	77.4	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.8	U	24.8	220	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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.3
Sample Wt/Vol:	30.07 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
BF142446.D	1	05/16/25 10:00	05/19/25 12:39	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	29.3	U	29.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	38.6	U	38.6	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	38.1	U	38.1	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.8	U	35.8	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.6	U	33.6	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	33.5	U	33.5	220	ug/Kg
123-91-1	1,4-Dioxane	59.1	U	59.1	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.8	U	35.8	220	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	73.1		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	74.1		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.9		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.7		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.1		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	50.0		10 - 105	50%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	142000	6.904
1146-65-2	Naphthalene-d8	540000	8.186
15067-26-2	Acenaphthene-d10	301000	9.939
1517-22-2	Phenanthrene-d10	542000	11.427
1719-03-5	Chrysene-d12	308000	14.063
1520-96-3	Perylene-d12	297000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

000067-63-0	Isopropyl Alcohol	160	J	3.43	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	AB	5.12	ug/Kg
000770-35-4	1-Phenoxypropan-2-ol	170	J	8.49	ug/Kg
	unknown10.028	130	J	10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	380	J	12.0	ug/Kg
000057-11-4	Octadecanoic acid	140	J	12.7	ug/Kg
074339-54-1	Trichloroacetic acid, hexadecyl es	130	J	13.9	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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.3
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BF142446.D	1	05/16/25 10:00	05/19/25 12:39	PB168041

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

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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.1
Sample Wt/Vol:	30.06 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
BF142447.D	1	05/16/25 10:00	05/19/25 13:08	PB168041

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	47.6	U	47.6	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.9	U	54.9	92.7	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	26.3	U	26.3	200	ug/Kg
106-47-8	4-Chloroaniline	41.0	U	41.0	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.3	U	29.3	200	ug/Kg
105-60-2	Caprolactam	60.4	UQ	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	29.7	U	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	25.3	U	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

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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.1
Sample Wt/Vol:	30.06 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
BF142447.D	1	05/16/25 10:00	05/19/25 13:08	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.5	U	33.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.9	U	38.9	200	ug/Kg
99-09-2	3-Nitroaniline	53.3	U	53.3	200	ug/Kg
83-32-9	Acenaphthene	24.7	U	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	26.3	U	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	30.9	U	30.9	200	ug/Kg
86-73-7	Fluorene	29.3	U	29.3	200	ug/Kg
100-01-6	4-Nitroaniline	74.4	U	74.4	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.1	U	38.1	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	24.2	U	24.2	200	ug/Kg
120-12-7	Anthracene	38.6	U	38.6	200	ug/Kg
86-74-8	Carbazole	36.2	U	36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.5	U	55.5	200	ug/Kg
206-44-0	Fluoranthene	34.8	U	34.8	200	ug/Kg
129-00-0	Pyrene	41.7	U	41.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.8	U	82.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.5	U	42.5	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.7	U	26.7	200	ug/Kg
218-01-9	Chrysene	23.1	U	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.6	U	68.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.0	U	22.0	200	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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.1
Sample Wt/Vol:	30.06 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
BF142447.D	1	05/16/25 10:00	05/19/25 13:08	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.0	U	26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.2	U	34.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.7	U	33.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.8	U	31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.8	U	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	72.0		18 - 112	48%	SPK: 150
13127-88-3	Phenol-d6	72.9		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.6		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.5		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.5		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	43.7		10 - 105	44%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	142000	6.904
1146-65-2	Naphthalene-d8	553000	8.186
15067-26-2	Acenaphthene-d10	298000	9.939
1517-22-2	Phenanthrene-d10	494000	11.427
1719-03-5	Chrysene-d12	264000	14.068
1520-96-3	Perylene-d12	297000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

004254-15-3	(S)-(+)-1,2-Propanediol	88.1	J	3.43	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB	5.12	ug/Kg
000770-35-4	1-Phenoxypropan-2-ol	98.5	J	8.49	ug/Kg
	unknown10.033	2100	J	10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J	11.9	ug/Kg
015594-90-8	1-Heneicosanol	98.5	J	13.9	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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BF142447.D	1	05/16/25 10:00	05/19/25 13:08	PB168041

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

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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
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
BF142448.D	1	05/16/25 10:00	05/19/25 13:37	PB168041

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	25.5	U	25.5	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.0	U	28.0	200	ug/Kg
95-57-8	2-Chlorophenol	28.1	U	28.1	200	ug/Kg
95-48-7	2-Methylphenol	34.4	U	34.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.2	U	43.2	200	ug/Kg
98-86-2	Acetophenone	34.0	U	34.0	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.3	U	47.3	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.6	U	54.6	92.1	ug/Kg
67-72-1	Hexachloroethane	20.3	U	20.3	200	ug/Kg
98-95-3	Nitrobenzene	21.1	U	21.1	200	ug/Kg
78-59-1	Isophorone	37.8	U	37.8	200	ug/Kg
88-75-5	2-Nitrophenol	67.0	U	67.0	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.6	U	74.6	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.5	U	35.5	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.6	U	32.6	200	ug/Kg
91-20-3	Naphthalene	26.1	U	26.1	200	ug/Kg
106-47-8	4-Chloroaniline	40.8	U	40.8	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.1	U	29.1	200	ug/Kg
105-60-2	Caprolactam	60.0	UQ	60.0	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.1	U	33.1	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.5	U	29.5	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.8	U	22.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.5	U	33.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.1	U	25.1	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.9	U	25.9	200	ug/Kg
88-74-4	2-Nitroaniline	55.4	U	55.4	200	ug/Kg
131-11-3	Dimethylphthalate	31.2	U	31.2	200	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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
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
BF142448.D	1	05/16/25 10:00	05/19/25 13:37	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.3	U	33.3	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.7	U	38.7	200	ug/Kg
99-09-2	3-Nitroaniline	53.0	U	53.0	200	ug/Kg
83-32-9	Acenaphthene	24.5	U	24.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.1	U	26.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.7	U	57.7	200	ug/Kg
84-66-2	Diethylphthalate	32.6	U	32.6	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.8	U	30.8	200	ug/Kg
86-73-7	Fluorene	29.1	U	29.1	200	ug/Kg
100-01-6	4-Nitroaniline	73.9	U	73.9	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.9	U	37.9	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.0	U	32.0	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	U	29.1	200	ug/Kg
1912-24-9	Atrazine	39.2	U	39.2	200	ug/Kg
87-86-5	Pentachlorophenol	59.1	U	59.1	380	ug/Kg
85-01-8	Phenanthrene	24.1	U	24.1	200	ug/Kg
120-12-7	Anthracene	38.4	U	38.4	200	ug/Kg
86-74-8	Carbazole	35.9	U	35.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.2	U	55.2	200	ug/Kg
206-44-0	Fluoranthene	34.6	U	34.6	200	ug/Kg
129-00-0	Pyrene	41.5	U	41.5	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.2	U	82.2	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.3	U	42.3	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.5	U	26.5	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.2	U	68.2	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.9	U	21.9	200	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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
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
BF142448.D	1	05/16/25 10:00	05/19/25 13:37	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.8	U	25.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.0	U	34.0	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.5	U	33.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.6	U	31.6	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.6	U	29.6	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.5	U	29.5	200	ug/Kg
123-91-1	1,4-Dioxane	52.1	U	52.1	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.6	U	31.6	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	78.5		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	77.9		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.8		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.1		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	88.2		10 - 116	59%	SPK: 150
1718-51-0	Terphenyl-d14	45.3		10 - 105	45%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	127000	6.898			
1146-65-2	Naphthalene-d8	534000	8.181			
15067-26-2	Acenaphthene-d10	245000	9.939			
1517-22-2	Phenanthrene-d10	429000	11.422			
1719-03-5	Chrysene-d12	249000	14.063			
1520-96-3	Perylene-d12	250000	15.551			

TENTATIVE IDENTIFIED COMPOUNDS

	unknown3.422	150	J		3.42	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
006180-61-6	1-Propanol, 3-phenoxy-	120	J		8.49	ug/Kg
	unknown10.034	1200	J		10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	150	J		11.9	ug/Kg
006385-15-5	Heptafluorobutyric acid, hexadecyl	120	J		13.9	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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
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
BF142448.D	1	05/16/25 10:00	05/19/25 13:37	PB168041

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

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
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 :	

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	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)
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

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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.5
Sample Wt/Vol:	30.03 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
BF142450.D	1	05/16/25 10:00	05/19/25 14:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.8	U	26.8	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.4	U	29.4	210	ug/Kg
95-57-8	2-Chlorophenol	29.5	U	29.5	210	ug/Kg
95-48-7	2-Methylphenol	36.2	U	36.2	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.4	U	45.4	210	ug/Kg
98-86-2	Acetophenone	35.7	U	35.7	210	ug/Kg
65794-96-9	3+4-Methylphenols	49.8	U	49.8	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.4	U	57.4	96.9	ug/Kg
67-72-1	Hexachloroethane	21.3	U	21.3	210	ug/Kg
98-95-3	Nitrobenzene	22.2	U	22.2	210	ug/Kg
78-59-1	Isophorone	39.7	U	39.7	210	ug/Kg
88-75-5	2-Nitrophenol	70.5	U	70.5	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.5	U	78.5	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.3	U	37.3	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.3	U	34.3	210	ug/Kg
91-20-3	Naphthalene	27.5	U	27.5	210	ug/Kg
106-47-8	4-Chloroaniline	42.9	U	42.9	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.6	U	30.6	210	ug/Kg
105-60-2	Caprolactam	63.1	UQ	63.1	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.8	U	34.8	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.0	U	31.0	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.0	U	24.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.2	U	35.2	210	ug/Kg
92-52-4	1,1-Biphenyl	26.4	U	26.4	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.2	U	27.2	210	ug/Kg
88-74-4	2-Nitroaniline	58.2	U	58.2	210	ug/Kg
131-11-3	Dimethylphthalate	32.8	U	32.8	210	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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.5
Sample Wt/Vol:	30.03 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
BF142450.D	1	05/16/25 10:00	05/19/25 14:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.0	U	35.0	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.7	U	40.7	210	ug/Kg
99-09-2	3-Nitroaniline	55.7	U	55.7	210	ug/Kg
83-32-9	Acenaphthene	25.8	U	25.8	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.5	U	27.5	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	60.7	U	60.7	210	ug/Kg
84-66-2	Diethylphthalate	34.3	U	34.3	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.3	U	32.3	210	ug/Kg
86-73-7	Fluorene	30.6	U	30.6	210	ug/Kg
100-01-6	4-Nitroaniline	77.7	U	77.7	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.8	U	39.8	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.7	U	33.7	210	ug/Kg
118-74-1	Hexachlorobenzene	30.6	U	30.6	210	ug/Kg
1912-24-9	Atrazine	41.2	U	41.2	210	ug/Kg
87-86-5	Pentachlorophenol	62.1	U	62.1	400	ug/Kg
85-01-8	Phenanthrene	25.3	U	25.3	210	ug/Kg
120-12-7	Anthracene	40.3	U	40.3	210	ug/Kg
86-74-8	Carbazole	37.8	U	37.8	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.0	U	58.0	210	ug/Kg
206-44-0	Fluoranthene	36.3	U	36.3	210	ug/Kg
129-00-0	Pyrene	43.6	U	43.6	210	ug/Kg
85-68-7	Butylbenzylphthalate	86.5	U	86.5	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.4	U	44.4	400	ug/Kg
56-55-3	Benzo(a)anthracene	27.9	U	27.9	210	ug/Kg
218-01-9	Chrysene	24.1	U	24.1	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	71.7	U	71.7	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.0	U	23.0	210	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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.5
Sample Wt/Vol:	30.03 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
BF142450.D	1	05/16/25 10:00	05/19/25 14:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.1	U	27.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.7	U	35.7	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.2	U	35.2	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.2	U	33.2	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.1	U	31.1	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.0	U	31.0	210	ug/Kg
123-91-1	1,4-Dioxane	54.7	U	54.7	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.2	U	33.2	210	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	80.3		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	78.1		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.7		18 - 107	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.5		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.3		10 - 116	64%	SPK: 150
1718-51-0	Terphenyl-d14	43.5		10 - 105	44%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	128000	6.898
1146-65-2	Naphthalene-d8	448000	8.181
15067-26-2	Acenaphthene-d10	243000	9.939
1517-22-2	Phenanthrene-d10	434000	11.427
1719-03-5	Chrysene-d12	325000	14.063
1520-96-3	Perylene-d12	310000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

	unknown3.422	170	J		3.42	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
000770-35-4	1-Phenoxypropan-2-ol	130	J		8.49	ug/Kg
	unknown10.028	140	J		10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	240	J		11.9	ug/Kg
074339-54-1	Trichloroacetic acid, hexadecyl es	230	J		13.9	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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.5
Sample Wt/Vol:	30.03 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
BF142450.D	1	05/16/25 10:00	05/19/25 14:35	PB168041

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

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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
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
BF142451.D	1	05/16/25 10:00	05/19/25 15:04	PB168041

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	25.4	U	25.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.9	U	27.9	200	ug/Kg
95-57-8	2-Chlorophenol	28.1	U	28.1	200	ug/Kg
95-48-7	2-Methylphenol	34.4	U	34.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.1	U	43.1	200	ug/Kg
98-86-2	Acetophenone	33.9	U	33.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.3	U	47.3	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.5	U	54.5	92.0	ug/Kg
67-72-1	Hexachloroethane	20.2	U	20.2	200	ug/Kg
98-95-3	Nitrobenzene	21.0	U	21.0	200	ug/Kg
78-59-1	Isophorone	37.7	U	37.7	200	ug/Kg
88-75-5	2-Nitrophenol	66.9	U	66.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.5	U	74.5	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.4	U	35.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.5	U	32.5	200	ug/Kg
91-20-3	Naphthalene	26.1	U	26.1	200	ug/Kg
106-47-8	4-Chloroaniline	40.7	U	40.7	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.1	U	29.1	200	ug/Kg
105-60-2	Caprolactam	59.9	UQ	59.9	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.0	U	33.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.4	U	29.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.8	U	22.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.5	U	33.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.1	U	25.1	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.9	U	25.9	200	ug/Kg
88-74-4	2-Nitroaniline	55.3	U	55.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.2	U	31.2	200	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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
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
BF142451.D	1	05/16/25 10:00	05/19/25 15:04	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.2	U	33.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.6	U	38.6	200	ug/Kg
99-09-2	3-Nitroaniline	52.9	U	52.9	200	ug/Kg
83-32-9	Acenaphthene	24.5	U	24.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.1	U	26.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.6	U	57.6	200	ug/Kg
84-66-2	Diethylphthalate	32.5	U	32.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.7	U	30.7	200	ug/Kg
86-73-7	Fluorene	29.1	U	29.1	200	ug/Kg
100-01-6	4-Nitroaniline	73.8	U	73.8	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.8	U	37.8	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.0	U	32.0	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	U	29.1	200	ug/Kg
1912-24-9	Atrazine	39.1	U	39.1	200	ug/Kg
87-86-5	Pentachlorophenol	59.0	U	59.0	380	ug/Kg
85-01-8	Phenanthrene	24.0	U	24.0	200	ug/Kg
120-12-7	Anthracene	38.3	U	38.3	200	ug/Kg
86-74-8	Carbazole	35.9	U	35.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.1	U	55.1	200	ug/Kg
206-44-0	Fluoranthene	34.5	U	34.5	200	ug/Kg
129-00-0	Pyrene	41.4	U	41.4	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.1	U	82.1	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.2	U	42.2	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.5	U	26.5	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.1	U	68.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	99.8	U	99.8	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.9	U	21.9	200	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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
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
BF142451.D	1	05/16/25 10:00	05/19/25 15:04	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.8	U	25.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	33.9	U	33.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.5	U	33.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.5	U	31.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.6	U	29.6	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.4	U	29.4	200	ug/Kg
123-91-1	1,4-Dioxane	52.0	U	52.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.5	U	31.5	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	81.0		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	74.4		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.2		18 - 107	53%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.8		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.8		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	47.0		10 - 105	47%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	129000	6.898
1146-65-2	Naphthalene-d8	454000	8.181
15067-26-2	Acenaphthene-d10	244000	9.939
1517-22-2	Phenanthrene-d10	432000	11.428
1719-03-5	Chrysene-d12	248000	14.063
1520-96-3	Perylene-d12	251000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

	unknown3.422	100	J		3.42	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
006180-61-6	1-Propanol, 3-phenoxy-	95.1	J		8.49	ug/Kg
	unknown10.034	1700	J		10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	380	J		12.0	ug/Kg
000057-11-4	Octadecanoic acid	110	J		12.7	ug/Kg
006385-15-5	Heptafluorobutyric acid, hexadecyl	160	J		13.9	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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BF142451.D	1	05/16/25 10:00	05/19/25 15:04	PB168041

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024716.D	1	05/19/25 08:42	05/20/25 20:42	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.2	ug/L
108-95-2	Phenol	0.93	U	0.93	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.83	U	0.83	5.10	ug/L
95-57-8	2-Chlorophenol	0.59	U	0.59	5.10	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.10	ug/L
98-86-2	Acetophenone	0.76	U	0.76	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.60	ug/L
67-72-1	Hexachloroethane	0.66	U	0.66	5.10	ug/L
98-95-3	Nitrobenzene	0.78	U	0.78	5.10	ug/L
78-59-1	Isophorone	0.77	U	0.77	5.10	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.69	U	0.69	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.53	U	0.53	5.10	ug/L
91-20-3	Naphthalene	0.51	U	0.51	5.10	ug/L
106-47-8	4-Chloroaniline	0.86	U	0.86	5.10	ug/L
87-68-3	Hexachlorobutadiene	0.55	U	0.55	5.10	ug/L
105-60-2	Caprolactam	1.20	U	1.20	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.60	U	0.60	5.10	ug/L
91-57-6	2-Methylnaphthalene	0.57	U	0.57	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	3.70	U	3.70	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.52	U	0.52	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	0.63	U	0.63	5.10	ug/L
92-52-4	1,1-Biphenyl	0.54	U	0.54	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.62	U	0.62	5.10	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.10	ug/L
131-11-3	Dimethylphthalate	0.62	U	0.62	5.10	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024716.D	1	05/19/25 08:42	05/20/25 20:42	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.77	U	0.77	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	0.94	U	0.94	5.10	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.10	ug/L
83-32-9	Acenaphthene	0.56	U	0.56	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.10	U	6.10	10.2	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.2	ug/L
132-64-9	Dibenzofuran	0.62	U	0.62	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.10	ug/L
84-66-2	Diethylphthalate	0.70	U	0.70	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.69	U	0.69	5.10	ug/L
86-73-7	Fluorene	0.64	U	0.64	5.10	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.59	U	0.59	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.41	U	0.41	5.10	ug/L
118-74-1	Hexachlorobenzene	0.53	U	0.53	5.10	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.10	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.2	ug/L
85-01-8	Phenanthrene	0.51	U	0.51	5.10	ug/L
120-12-7	Anthracene	0.62	U	0.62	5.10	ug/L
86-74-8	Carbazole	0.73	U	0.73	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.10	ug/L
206-44-0	Fluoranthene	0.84	U	0.84	5.10	ug/L
129-00-0	Pyrene	0.51	U	0.51	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.00	U	2.00	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	0.95	U	0.95	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.46	U	0.46	5.10	ug/L
218-01-9	Chrysene	0.45	U	0.45	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.40	U	2.40	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.50	U	0.50	5.10	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024716.D	1	05/19/25 08:42	05/20/25 20:42	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.49	U	0.49	5.10	ug/L
50-32-8	Benzo(a)pyrene	0.56	U	0.56	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.60	U	0.60	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.68	U	0.68	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.70	U	0.70	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	5.10	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.73	U	0.73	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	56.8		10 - 139	38%	SPK: 150
13127-88-3	Phenol-d6	31.4		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.8		49 - 133	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.6		52 - 132	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	152		44 - 137	101%	SPK: 150
1718-51-0	Terphenyl-d14	86.0		48 - 125	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	7.657			
1146-65-2	Naphthalene-d8	406000	10.428			
15067-26-2	Acenaphthene-d10	283000	14.292			
1517-22-2	Phenanthrene-d10	572000	17.08			
1719-03-5	Chrysene-d12	650000	21.509			
1520-96-3	Perylene-d12	736000	24.792			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.70	AB		4.82	ug/L
000112-79-8	9-Octadecenoic acid, (E)-	2.80	J		19.2	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024716.D	1	05/19/25 08:42	05/20/25 20:42	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-02	TP-29	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-03	TP-29-99	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-04	TP-24	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-07	TP-37	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-08	TP-32	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-11	FB-05132025	Water	SVOC-TCL BNA -20	8270E	05/13/25	05/19/25	05/20/25	05/13/25



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

A

B

C

D

Hit Summary Sheet SW-846

SDG No.: Q2032
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :				0.000				
Total Svoc :					0.00			
Total Concentration:					0.00			



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/15/25
Client Sample ID:	PB167994TB	SDG No.:	Q2032
Lab Sample ID:	PB167994TB	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BP024670.D	1	05/15/25 12:00	05/17/25 00:29	PB168026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	134		10 - 139	89%	SPK: 150
13127-88-3	Phenol-d6	129		10 - 134	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.2		49 - 133	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.7		52 - 132	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		44 - 137	90%	SPK: 150
1718-51-0	Terphenyl-d14	83.3		48 - 125	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	116000	7.657			
1146-65-2	Naphthalene-d8	458000	10.434			
15067-26-2	Acenaphthene-d10	293000	14.292			
1517-22-2	Phenanthrene-d10	589000	17.092			
1719-03-5	Chrysene-d12	711000	21.521			
1520-96-3	Perylene-d12	834000	24.798			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/15/25
Client Sample ID:	PB167994TB	SDG No.:	Q2032
Lab Sample ID:	PB167994TB	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BP024670.D	1	05/15/25 12:00	05/17/25 00:29	PB168026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	COMP-1	SDG No.:	Q2032
Lab Sample ID:	Q2032-09	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BP024681.D	1	05/15/25 12:00	05/17/25 08:01	PB168026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	140		10 - 139	93%	SPK: 150
13127-88-3	Phenol-d6	127		10 - 134	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.8		49 - 133	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.2		52 - 132	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		44 - 137	110%	SPK: 150
1718-51-0	Terphenyl-d14	86.5		48 - 125	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	120000	7.657			
1146-65-2	Naphthalene-d8	449000	10.428			
15067-26-2	Acenaphthene-d10	278000	14.292			
1517-22-2	Phenanthrene-d10	578000	17.086			
1719-03-5	Chrysene-d12	710000	21.515			
1520-96-3	Perylene-d12	884000	24.803			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	COMP-1	SDG No.:	Q2032
Lab Sample ID:	Q2032-09	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Final Vol:	1000
		Test:	TCLP BNA
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024681.D	1	05/15/25 12:00	05/17/25 08:01	PB168026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

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* = Values outside of QC limits

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-02	TP-29	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-03	TP-29-99	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-04	TP-24	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-07	TP-37	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-08	TP-32	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-09	COMP-1	TCLP	TCLP BNA	8270E	05/13/25	05/15/25	05/17/25	05/13/25
Q2032-11	FB-05132025	Water	SVOC-TCL BNA -20	8270E	05/13/25	05/19/25	05/20/25	05/13/25



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

Hit Summary Sheet
SW-846

SDG No.:	Q2032	Order ID:	Q2032
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								

Total Concentration: 0.000



SAMPLE DATA

A

B

C

D

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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	76.3
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095721.D	1	05/16/25 09:25	05/16/25 13:51	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.17	U	0.17	2.20	ug/kg
319-85-7	beta-BHC	0.24	U	0.24	2.20	ug/kg
319-86-8	delta-BHC	0.51	U	0.51	2.20	ug/kg
58-89-9	gamma-BHC (Lindane)	0.18	U	0.18	2.20	ug/kg
76-44-8	Heptachlor	0.16	U	0.16	2.20	ug/kg
309-00-2	Aldrin	0.16	U	0.16	2.20	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	2.20	ug/kg
959-98-8	Endosulfan I	0.18	U	0.18	2.20	ug/kg
60-57-1	Dieldrin	0.18	U	0.18	2.20	ug/kg
72-55-9	4,4-DDE	0.18	U	0.18	2.20	ug/kg
72-20-8	Endrin	0.18	U	0.18	2.20	ug/kg
33213-65-9	Endosulfan II	0.38	U	0.38	2.20	ug/kg
72-54-8	4,4-DDD	0.20	U	0.20	2.20	ug/kg
1031-07-8	Endosulfan Sulfate	0.17	U	0.17	2.20	ug/kg
50-29-3	4,4-DDT	0.18	U	0.18	2.20	ug/kg
72-43-5	Methoxychlor	0.48	U	0.48	2.20	ug/kg
53494-70-5	Endrin ketone	0.25	U	0.25	2.20	ug/kg
7421-93-4	Endrin aldehyde	0.48	U	0.48	2.20	ug/kg
5103-71-9	alpha-Chlordane	0.16	U	0.16	2.20	ug/kg
5103-74-2	gamma-Chlordane	0.20	U	0.20	2.20	ug/kg
8001-35-2	Toxaphene	7.10	U	7.10	43.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	11.3		20 - 144	56%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.8		19 - 148	69%	SPK: 20

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-11		SDG No.:	Q2032	
Lab Sample ID:	Q2032-01		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	76.3	Decanted:
Sample Wt/Vol:	30.05	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095721.D	1	05/16/25 09:25	05/16/25 13:51	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.1
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095722.D	1	05/16/25 09:25	05/16/25 14:04	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.2		20 - 144	66%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.9		19 - 148	90%	SPK: 20

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-29		SDG No.:	Q2032	
Lab Sample ID:	Q2032-02		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	86.1	Decanted:
Sample Wt/Vol:	30.04	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095722.D	1	05/16/25 09:25	05/16/25 14:04	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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P = Indicates >25% difference for detected concentrations between the two GC columns

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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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.8
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095723.D	1	05/16/25 09:25	05/16/25 14:18	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	2.00	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.20	U	6.20	37.9	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.5		20 - 144	77%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.6		19 - 148	93%	SPK: 20

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-29-99		SDG No.:	Q2032	
Lab Sample ID:	Q2032-03		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	86.8	Decanted:
Sample Wt/Vol:	30.08	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095723.D	1	05/16/25 09:25	05/16/25 14:18	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

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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:	8081B	% Solid:	74.2
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095724.D	1	05/16/25 09:25	05/16/25 14:32	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.18	U	0.18	2.30	ug/kg
319-85-7	beta-BHC	0.24	U	0.24	2.30	ug/kg
319-86-8	delta-BHC	0.53	U	0.53	2.30	ug/kg
58-89-9	gamma-BHC (Lindane)	0.19	U	0.19	2.30	ug/kg
76-44-8	Heptachlor	0.16	U	0.16	2.30	ug/kg
309-00-2	Aldrin	0.16	U	0.16	2.30	ug/kg
1024-57-3	Heptachlor epoxide	0.26	U	0.26	2.30	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	2.30	ug/kg
60-57-1	Dieldrin	0.19	U	0.19	2.30	ug/kg
72-55-9	4,4-DDE	0.19	U	0.19	2.30	ug/kg
72-20-8	Endrin	0.19	U	0.19	2.30	ug/kg
33213-65-9	Endosulfan II	0.39	U	0.39	2.30	ug/kg
72-54-8	4,4-DDD	0.20	U	0.20	2.30	ug/kg
1031-07-8	Endosulfan Sulfate	0.18	U	0.18	2.30	ug/kg
50-29-3	4,4-DDT	0.19	U	0.19	2.30	ug/kg
72-43-5	Methoxychlor	0.50	U	0.50	2.30	ug/kg
53494-70-5	Endrin ketone	0.26	U	0.26	2.30	ug/kg
7421-93-4	Endrin aldehyde	0.50	U	0.50	2.30	ug/kg
5103-71-9	alpha-Chlordane	0.16	U	0.16	2.30	ug/kg
5103-74-2	gamma-Chlordane	0.20	U	0.20	2.30	ug/kg
8001-35-2	Toxaphene	7.30	U	7.30	44.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.5		20 - 144	73%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.4		19 - 148	87%	SPK: 20

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:	8081B		% Solid:	74.2	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095724.D	1	05/16/25 09:25	05/16/25 14:32	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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() = Laboratory InHouse Limit

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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	82.5
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095727.D	1	05/16/25 09:25	05/16/25 15:13	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.10	ug/kg
319-85-7	beta-BHC	0.22	U	0.22	2.10	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.10	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.10	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.10	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.10	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.10	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.10	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.10	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.10	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.10	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.10	ug/kg
72-43-5	Methoxychlor	0.45	U	0.45	2.10	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.10	ug/kg
7421-93-4	Endrin aldehyde	0.45	U	0.45	2.10	ug/kg
5103-71-9	alpha-Chlordane	0.15	U	0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.10	ug/kg
8001-35-2	Toxaphene	6.60	U	6.60	40.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	11.6		20 - 144	58%	SPK: 20
877-09-8	Tetrachloro-m-xylene	15.0		19 - 148	75%	SPK: 20

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-37		SDG No.:	Q2032	
Lab Sample ID:	Q2032-07		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	82.5	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095727.D	1	05/16/25 09:25	05/16/25 15:13	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.8
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095728.D	1	05/16/25 09:25	05/16/25 15:27	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	2.00	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.20	U	6.20	38.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.2		20 - 144	71%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		19 - 148	92%	SPK: 20

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-32		SDG No.:	Q2032	
Lab Sample ID:	Q2032-08		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	86.8	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095728.D	1	05/16/25 09:25	05/16/25 15:27	PB168040

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095672.D	1	05/14/25 09:06	05/14/25 17:36	PB168004

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0040	U	0.0040	0.051	ug/L
319-85-7	beta-BHC	0.0050	U	0.0050	0.051	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.051	ug/L
58-89-9	gamma-BHC (Lindane)	0.0038	U	0.0038	0.051	ug/L
76-44-8	Heptachlor	0.0028	U	0.0028	0.051	ug/L
309-00-2	Aldrin	0.0037	U	0.0037	0.051	ug/L
1024-57-3	Heptachlor epoxide	0.0098	U	0.0098	0.051	ug/L
959-98-8	Endosulfan I	0.0032	U	0.0032	0.051	ug/L
60-57-1	Dieldrin	0.0037	U	0.0037	0.051	ug/L
72-55-9	4,4-DDE	0.0038	U	0.0038	0.051	ug/L
72-20-8	Endrin	0.0033	U	0.0033	0.051	ug/L
33213-65-9	Endosulfan II	0.0081	U	0.0081	0.051	ug/L
72-54-8	4,4-DDD	0.0072	U	0.0072	0.051	ug/L
1031-07-8	Endosulfan Sulfate	0.0038	U	0.0038	0.051	ug/L
50-29-3	4,4-DDT	0.0036	U	0.0036	0.051	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.051	ug/L
53494-70-5	Endrin ketone	0.0095	U	0.0095	0.051	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.051	ug/L
5103-71-9	alpha-Chlordane	0.0036	U	0.0036	0.051	ug/L
5103-74-2	gamma-Chlordane	0.0040	U	0.0040	0.051	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	9.36		43 - 140	47%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.1		77 - 126	101%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	05/13/25	
Project:	South River WM Replacement		Date Received:	05/13/25	
Client Sample ID:	FB-05132025		SDG No.:	Q2032	
Lab Sample ID:	Q2032-11		Matrix:	WATER	
Analytical Method:	8081B		% Solid:	0	Decanted:
Sample Wt/Vol:	980	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095672.D	1	05/14/25 09:06	05/14/25 17:36	PB168004

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-02	TP-29	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-03	TP-29-99	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-04	TP-24	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-07	TP-37	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-08	TP-32	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-11	FB-05132025	Water			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/14/25	

LAB CHRONICLE

PCB	8082A	05/14/25	05/15/25
Pesticide-TCL	8081B	05/14/25	05/14/25



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

Hit Summary Sheet
SW-846

SDG No.:	Q2032	Order ID:	Q2032
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								

Total Concentration: 0.000



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:	05/19/25	
Client Sample ID:	PB167994TB		SDG No.:	Q2032	
Lab Sample ID:	PB167994TB		Matrix:	TCLP	
Analytical Method:	8081B		% Solid:	0	Decanted:
Sample Wt/Vol:	100	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088618.D	1	05/19/25 09:20	05/19/25 20:54	PB168066

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.7		43 - 140	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.9		77 - 126	104%	SPK: 20

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Report of Analysis

Client:	CDM Smith		Date Collected:	05/13/25	
Project:	South River WM Replacement		Date Received:	05/13/25	
Client Sample ID:	COMP-1		SDG No.:	Q2032	
Lab Sample ID:	Q2032-09		Matrix:	TCLP	
Analytical Method:	8081B		% Solid:	0	Decanted:
Sample Wt/Vol:	100	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088624.D	1	05/19/25 09:20	05/19/25 22:16	PB168066

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.6		43 - 140	108%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		77 - 126	102%	SPK: 20

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LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-02	TP-29	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-03	TP-29-99	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-04	TP-24	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/15/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-07	TP-37	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	

LAB CHRONICLE

Q2032-08	TP-32	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-09	COMP-1	TCLP			05/13/25			05/13/25
			TCLP Herbicide	8151A		05/19/25	05/20/25	
			TCLP Pesticide	8081B		05/19/25	05/19/25	
Q2032-11	FB-05132025	Water			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/16/25	05/19/25	
			Gasoline Range Organics	8015D			05/14/25	
			Herbicide	8151A		05/14/25	05/15/25	
			PCB	8082A		05/14/25	05/15/25	
			Pesticide-TCL	8081B		05/14/25	05/14/25	



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

Hit Summary Sheet
SW-846

SDG No.:	Q2032	Order ID:	Q2032
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000



SAMPLE DATA

A

B

C

D

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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	76.3
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111156.D	1	05/16/25 09:24	05/16/25 20:34	PB168039

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.20	U	5.20	22.2	ug/kg
11104-28-2	Aroclor-1221	5.30	U	5.30	22.2	ug/kg
11141-16-5	Aroclor-1232	4.90	U	4.90	22.2	ug/kg
53469-21-9	Aroclor-1242	5.20	U	5.20	22.2	ug/kg
12672-29-6	Aroclor-1248	7.70	U	7.70	22.2	ug/kg
11097-69-1	Aroclor-1254	4.20	U	4.20	22.2	ug/kg
37324-23-5	Aroclor-1262	6.60	U	6.60	22.2	ug/kg
11100-14-4	Aroclor-1268	4.70	U	4.70	22.2	ug/kg
11096-82-5	Aroclor-1260	4.20	U	4.20	22.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.4		32 - 144	87%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.6		32 - 175	58%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86.1
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111136.D	1	05/16/25 09:24	05/16/25 13:40	PB168039

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.60	U	4.60	19.7	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	19.7	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.7	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	19.7	ug/kg
12672-29-6	Aroclor-1248	6.90	U	6.90	19.7	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.7	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.7	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	19.7	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		32 - 144	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.9		32 - 175	74%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86.8
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111137.D	1	05/16/25 09:24	05/16/25 13:57	PB168039

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.50	U	4.50	19.5	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.5	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.5	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.5	ug/kg
12672-29-6	Aroclor-1248	6.80	U	6.80	19.5	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.5	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.5	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.5	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.4		32 - 144	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.1		32 - 175	81%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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:	8082A	% Solid:	74.2
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111138.D	1	05/16/25 09:24	05/16/25 14:14	PB168039

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.30	U	5.30	22.9	ug/kg
11104-28-2	Aroclor-1221	5.40	U	5.40	22.9	ug/kg
11141-16-5	Aroclor-1232	5.00	U	5.00	22.9	ug/kg
53469-21-9	Aroclor-1242	5.40	U	5.40	22.9	ug/kg
12672-29-6	Aroclor-1248	8.00	U	8.00	22.9	ug/kg
11097-69-1	Aroclor-1254	4.30	U	4.30	22.9	ug/kg
37324-23-5	Aroclor-1262	6.80	U	6.80	22.9	ug/kg
11100-14-4	Aroclor-1268	4.80	U	4.80	22.9	ug/kg
11096-82-5	Aroclor-1260	4.40	U	4.40	22.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		32 - 144	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.0		32 - 175	80%	SPK: 20

Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	82.5
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111141.D	1	05/16/25 09:24	05/16/25 15:08	PB168039

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.80	U	4.80	20.6	ug/kg
11104-28-2	Aroclor-1221	4.90	U	4.90	20.6	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	20.6	ug/kg
53469-21-9	Aroclor-1242	4.90	U	4.90	20.6	ug/kg
12672-29-6	Aroclor-1248	7.20	U	7.20	20.6	ug/kg
11097-69-1	Aroclor-1254	3.90	U	3.90	20.6	ug/kg
37324-23-5	Aroclor-1262	6.10	U	6.10	20.6	ug/kg
11100-14-4	Aroclor-1268	4.40	U	4.40	20.6	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.0		32 - 175	65%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86.8
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111142.D	1	05/16/25 09:24	05/16/25 15:27	PB168039

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.50	U	4.50	19.6	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.6	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.6	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.6	ug/kg
12672-29-6	Aroclor-1248	6.80	U	6.80	19.6	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.6	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.6	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.6	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.5		32 - 144	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.5		32 - 175	77%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072103.D	1	05/14/25 09:08	05/15/25 13:08	PB168005

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.099	U	0.099	0.51	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.51	ug/L
11141-16-5	Aroclor-1232	0.098	U	0.098	0.51	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.51	ug/L
12672-29-6	Aroclor-1248	0.072	U	0.072	0.51	ug/L
11097-69-1	Aroclor-1254	0.096	U	0.096	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.51	ug/L
11096-82-5	Aroclor-1260	0.083	U	0.083	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.9		16 - 158	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.0		10 - 173	65%	SPK: 20

Comments:

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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() = Laboratory InHouse Limit

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
Q2032-02	TP-29	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			PCB	8082A		05/16/25	05/16/25	
Q2032-03	TP-29-99	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
Q2032-04	TP-24	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-07	TP-37	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
Q2032-08	TP-32	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
Q2032-11	FB-05132025	Water			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/14/25	
			PCB	8082A		05/14/25	05/15/25	



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

Hit Summary Sheet
SW-846

SDG No.:	Q2032	Order ID:	Q2032
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								

Total Concentration: 0.000



SAMPLE DATA

A

B

C

D

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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	76.3
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030281.D	1	05/16/25 08:20	05/19/25 18:37	PB168030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	10.1	U	10.1	87.6	ug/Kg
120-36-5	DICHLORPROP	16.7	U	16.7	87.6	ug/Kg
94-75-7	2,4-D	11.8	U	11.8	87.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.8	U	11.8	87.6	ug/Kg
93-76-5	2,4,5-T	11.4	U	11.4	87.6	ug/Kg
94-82-6	2,4-DB	31.6	U	31.6	87.6	ug/Kg
88-85-7	DINOSEB	14.1	U	14.1	87.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	307		10 - 141	61%	SPK: 500

Comments:

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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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-29		SDG No.:	Q2032	
Lab Sample ID:	Q2032-02		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	86.1	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030282.D	1	05/16/25 08:20	05/19/25 19:01	PB168030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.00	U	9.00	77.7	ug/Kg
120-36-5	DICHLORPROP	14.8	U	14.8	77.7	ug/Kg
94-75-7	2,4-D	10.5	U	10.5	77.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.5	U	10.5	77.7	ug/Kg
93-76-5	2,4,5-T	10.1	U	10.1	77.7	ug/Kg
94-82-6	2,4-DB	28.1	U	28.1	77.7	ug/Kg
88-85-7	DINOSEB	12.5	U	12.5	77.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	364		10 - 141	73%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-29-99		SDG No.:	Q2032	
Lab Sample ID:	Q2032-03		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	86.8	Decanted:
Sample Wt/Vol:	30.08	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030283.D	1	05/16/25 08:20	05/19/25 19:25	PB168030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.90	U	8.90	77.0	ug/Kg
120-36-5	DICHLORPROP	14.7	U	14.7	77.0	ug/Kg
94-75-7	2,4-D	10.4	U	10.4	77.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.4	U	10.4	77.0	ug/Kg
93-76-5	2,4,5-T	10.0	U	10.0	77.0	ug/Kg
94-82-6	2,4-DB	27.8	U	27.8	77.0	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	77.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	316		10 - 141	63%	SPK: 500

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
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 P = Indicates >25% difference for detected concentrations between the two GC columns
 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
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

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:	8151A		% Solid:	74.2	Decanted:
Sample Wt/Vol:	30.05	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030284.D	1	05/16/25 08:20	05/19/25 19:49	PB168030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	10.4	U	10.4	90.1	ug/Kg
120-36-5	DICHLORPROP	17.2	U	17.2	90.1	ug/Kg
94-75-7	2,4-D	12.2	U	12.2	90.1	ug/Kg
93-72-1	2,4,5-TP (Silvex)	12.2	U	12.2	90.1	ug/Kg
93-76-5	2,4,5-T	11.7	U	11.7	90.1	ug/Kg
94-82-6	2,4-DB	32.6	U	32.6	90.1	ug/Kg
88-85-7	DINOSEB	14.5	U	14.5	90.1	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	345		10 - 141	69%	SPK: 500

Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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

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D = Dilution

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() = Laboratory InHouse Limit

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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	82.5
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030289.D	1	05/16/25 08:20	05/19/25 21:50	PB168030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.40	U	9.40	81.1	ug/Kg
120-36-5	DICHLORPROP	15.5	U	15.5	81.1	ug/Kg
94-75-7	2,4-D	10.9	U	10.9	81.1	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.0	U	11.0	81.1	ug/Kg
93-76-5	2,4,5-T	10.5	U	10.5	81.1	ug/Kg
94-82-6	2,4-DB	29.3	U	29.3	81.1	ug/Kg
88-85-7	DINOSEB	13.1	U	13.1	81.1	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	328		10 - 141	66%	SPK: 500

Comments:

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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

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D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	86.8
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030290.D	1	05/16/25 08:20	05/19/25 22:14	PB168030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.90	U	8.90	77.0	ug/Kg
120-36-5	DICHLORPROP	14.7	U	14.7	77.0	ug/Kg
94-75-7	2,4-D	10.4	U	10.4	77.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.4	U	10.4	77.0	ug/Kg
93-76-5	2,4,5-T	10.0	U	10.0	77.0	ug/Kg
94-82-6	2,4-DB	27.8	U	27.8	77.0	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	77.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	290		10 - 141	58%	SPK: 500

Comments:

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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

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D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	970	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030212.D	1	05/14/25 09:05	05/15/25 05:02	PB168003

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.67	U	0.67	2.10	ug/L
120-36-5	DICHLORPROP	0.78	U	0.78	2.10	ug/L
94-75-7	2,4-D	0.95	U	0.95	2.10	ug/L
93-72-1	2,4,5-TP (Silvex)	0.80	U	0.80	2.10	ug/L
93-76-5	2,4,5-T	0.73	U	0.73	2.10	ug/L
94-82-6	2,4-DB	0.67	U	0.67	2.10	ug/L
88-85-7	DINOSEB	0.92	U	0.92	2.10	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	445		39 - 175	89%	SPK: 500

Comments:

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LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-02	TP-29	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-03	TP-29-99	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-04	TP-24	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-07	TP-37	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-08	TP-32	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	

LAB CHRONICLE

Q2032-09	COMP-1	TCLP	Herbicide	8151A	05/16/25	05/19/25	05/13/25
			PCB	8082A	05/16/25	05/16/25	
			Pesticide-TCL	8081B	05/16/25	05/16/25	
			TCLP Herbicide	8151A	05/19/25	05/20/25	
Q2032-11	FB-05132025	Water			05/13/25		05/13/25
			Diesel Range Organics	8015D	05/16/25	05/19/25	
			Gasoline Range Organics	8015D		05/14/25	
			Herbicide	8151A	05/14/25	05/15/25	
			PCB	8082A	05/14/25	05/15/25	
			Pesticide-TCL	8081B	05/14/25	05/14/25	



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

Hit Summary Sheet
SW-846

SDG No.:	Q2032	Order ID:	Q2032
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								

Total Concentration: 0.000



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:	05/19/25	
Client Sample ID:	PB167994TB		SDG No.:	Q2032	
Lab Sample ID:	PB167994TB		Matrix:	TCLP	
Analytical Method:	8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	100	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030293.D	1	05/19/25 09:15	05/19/25 23:26	PB168065

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	736		39 - 175	147%	SPK: 500

Comments:

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	COMP-1	SDG No.:	Q2032
Lab Sample ID:	Q2032-09	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030298.D	1	05/19/25 09:15	05/20/25 01:27	PB168065

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	719		39 - 175	144%	SPK: 500

Comments:

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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

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D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-02	TP-29	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-03	TP-29-99	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-04	TP-24	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-07	TP-37	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-08	TP-32	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-09	COMP-1	TCLP			05/13/25			05/13/25
			TCLP Herbicide	8151A		05/19/25	05/20/25	

LAB CHRONICLE

Q2032-11	FB-05132025	Water			05/13/25		05/13/25
			Diesel Range Organics	8015D		05/16/25	05/19/25
			Gasoline Range Organics	8015D			05/14/25
			PCB	8082A		05/14/25	05/15/25
			Pesticide-TCL	8081B		05/14/25	05/14/25



SAMPLE DATA

A

B

C

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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	76.3
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015869.D	1	05/20/25 10:15	05/21/25 12:16	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3760		221	2180	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.4		37 - 130	52%	SPK: 20

Comments:

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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

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() = Laboratory InHouse Limit

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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.1
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015870.D	1	05/20/25 10:15	05/21/25 12:45	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1180	J	196	1930	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.0		37 - 130	60%	SPK: 20

Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.8
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015871.D	1	05/20/25 10:15	05/21/25 13:15	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1010	J	195	1920	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.1		37 - 130	50%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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:	8015D DRO	% Solid:	74.2
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015872.D	1	05/20/25 10:15	05/21/25 13:44	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3740		228	2240	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.0		37 - 130	75%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	82.5
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015877.D	1	05/20/25 10:15	05/21/25 16:10	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1220	J	205	2020	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.4		37 - 130	57%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.8
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015878.D	1	05/20/25 10:15	05/21/25 16:40	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1600	J	194	1920	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.0		37 - 130	60%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015868.D	1	05/16/25 11:40	05/19/25 16:39	PB168064

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	9.00	J	6.00	51.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.3		29 - 130	82%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-02	TP-29	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/15/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-03	TP-29-99	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-04	TP-24	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/15/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-07	TP-37	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/16/25	

LAB CHRONICLE

			Herbicide	8151A	05/16/25	05/19/25	
			PCB	8082A	05/16/25	05/16/25	
			Pesticide-TCL	8081B	05/16/25	05/16/25	
Q2032-08	TP-32	SOIL			05/13/25		05/13/25
			Diesel Range Organics	8015D	05/20/25	05/21/25	
			Gasoline Range Organics	8015D		05/16/25	
			Herbicide	8151A	05/16/25	05/19/25	
			PCB	8082A	05/16/25	05/16/25	
			Pesticide-TCL	8081B	05/16/25	05/16/25	
Q2032-09	COMP-1	TCLP			05/13/25		05/13/25
			TCLP Herbicide	8151A	05/19/25	05/20/25	
			TCLP Pesticide	8081B	05/19/25	05/19/25	
Q2032-11	FB-05132025	Water			05/13/25		05/13/25
			Diesel Range Organics	8015D	05/16/25	05/19/25	
			Gasoline Range Organics	8015D		05/14/25	
			Herbicide	8151A	05/14/25	05/15/25	
			PCB	8082A	05/14/25	05/15/25	
			Pesticide-TCL	8081B	05/14/25	05/14/25	

Hit Summary Sheet
SW-846

SDG No.: Q2032 **Order ID:** Q2032
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-11								
Q2032-01	TP-11	SOIL	Aluminum	3420		0.99	5.88	mg/Kg
Q2032-01	TP-11	SOIL	Arsenic	7.54		0.22	1.18	mg/Kg
Q2032-01	TP-11	SOIL	Barium	10.3		0.86	5.88	mg/Kg
Q2032-01	TP-11	SOIL	Beryllium	0.40		0.029	0.35	mg/Kg
Q2032-01	TP-11	SOIL	Cadmium	0.33	J	0.028	0.35	mg/Kg
Q2032-01	TP-11	SOIL	Calcium	278		13.0	118	mg/Kg
Q2032-01	TP-11	SOIL	Chromium	12.7		0.055	0.59	mg/Kg
Q2032-01	TP-11	SOIL	Cobalt	1.49	J	0.12	1.76	mg/Kg
Q2032-01	TP-11	SOIL	Copper	9.16		0.26	1.18	mg/Kg
Q2032-01	TP-11	SOIL	Iron	17000		4.69	5.88	mg/Kg
Q2032-01	TP-11	SOIL	Lead	10.3		0.15	0.71	mg/Kg
Q2032-01	TP-11	SOIL	Magnesium	285		14.1	118	mg/Kg
Q2032-01	TP-11	SOIL	Manganese	31.5		0.17	1.18	mg/Kg
Q2032-01	TP-11	SOIL	Mercury	0.033		0.010	0.017	mg/Kg
Q2032-01	TP-11	SOIL	Nickel	1.98	J	0.15	2.35	mg/Kg
Q2032-01	TP-11	SOIL	Potassium	322		32.6	118	mg/Kg
Q2032-01	TP-11	SOIL	Sodium	211		20.9	118	mg/Kg
Q2032-01	TP-11	SOIL	Thallium	1.41	J	0.27	2.35	mg/Kg
Q2032-01	TP-11	SOIL	Vanadium	17.8		0.29	2.35	mg/Kg
Q2032-01	TP-11	SOIL	Zinc	10.7		0.27	2.35	mg/Kg
Client ID : TP-29								
Q2032-02	TP-29	SOIL	Aluminum	8350		0.91	5.40	mg/Kg
Q2032-02	TP-29	SOIL	Arsenic	4.45		0.21	1.08	mg/Kg
Q2032-02	TP-29	SOIL	Barium	40.7		0.79	5.40	mg/Kg
Q2032-02	TP-29	SOIL	Beryllium	0.51		0.027	0.32	mg/Kg
Q2032-02	TP-29	SOIL	Calcium	642		12.0	108	mg/Kg
Q2032-02	TP-29	SOIL	Chromium	13.8		0.051	0.54	mg/Kg
Q2032-02	TP-29	SOIL	Cobalt	2.10		0.11	1.62	mg/Kg
Q2032-02	TP-29	SOIL	Copper	4.85		0.24	1.08	mg/Kg
Q2032-02	TP-29	SOIL	Iron	19400		4.31	5.40	mg/Kg
Q2032-02	TP-29	SOIL	Lead	7.58		0.14	0.65	mg/Kg
Q2032-02	TP-29	SOIL	Magnesium	383		13.0	108	mg/Kg
Q2032-02	TP-29	SOIL	Manganese	36.1		0.15	1.08	mg/Kg
Q2032-02	TP-29	SOIL	Mercury	0.020		0.0090	0.016	mg/Kg
Q2032-02	TP-29	SOIL	Nickel	5.81		0.14	2.16	mg/Kg
Q2032-02	TP-29	SOIL	Potassium	256		29.9	108	mg/Kg
Q2032-02	TP-29	SOIL	Silver	0.22	J	0.13	0.54	mg/Kg

Hit Summary Sheet
SW-846

SDG No.:	Q2032	Order ID:	Q2032
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2032-02	TP-29	SOIL	Sodium	278		19.2	108	mg/Kg
Q2032-02	TP-29	SOIL	Thallium	1.30	J	0.25	2.16	mg/Kg
Q2032-02	TP-29	SOIL	Vanadium	24.8		0.27	2.16	mg/Kg
Q2032-02	TP-29	SOIL	Zinc	14.0		0.25	2.16	mg/Kg
Client ID : TP-29-99								
Q2032-03	TP-29-99	SOIL	Aluminum	4670		0.91	5.41	mg/Kg
Q2032-03	TP-29-99	SOIL	Arsenic	3.71		0.21	1.08	mg/Kg
Q2032-03	TP-29-99	SOIL	Barium	27.3		0.79	5.41	mg/Kg
Q2032-03	TP-29-99	SOIL	Beryllium	0.41		0.027	0.33	mg/Kg
Q2032-03	TP-29-99	SOIL	Calcium	641		12.0	108	mg/Kg
Q2032-03	TP-29-99	SOIL	Chromium	10.3		0.051	0.54	mg/Kg
Q2032-03	TP-29-99	SOIL	Cobalt	1.82		0.11	1.62	mg/Kg
Q2032-03	TP-29-99	SOIL	Copper	5.19		0.24	1.08	mg/Kg
Q2032-03	TP-29-99	SOIL	Iron	16400		4.32	5.41	mg/Kg
Q2032-03	TP-29-99	SOIL	Lead	14.3		0.14	0.65	mg/Kg
Q2032-03	TP-29-99	SOIL	Magnesium	308		13.0	108	mg/Kg
Q2032-03	TP-29-99	SOIL	Manganese	49.9		0.15	1.08	mg/Kg
Q2032-03	TP-29-99	SOIL	Mercury	0.14		0.0090	0.016	mg/Kg
Q2032-03	TP-29-99	SOIL	Nickel	3.76		0.14	2.16	mg/Kg
Q2032-03	TP-29-99	SOIL	Potassium	192		30.0	108	mg/Kg
Q2032-03	TP-29-99	SOIL	Sodium	198		19.3	108	mg/Kg
Q2032-03	TP-29-99	SOIL	Thallium	0.99	J	0.25	2.16	mg/Kg
Q2032-03	TP-29-99	SOIL	Vanadium	19.1		0.27	2.16	mg/Kg
Q2032-03	TP-29-99	SOIL	Zinc	12.8		0.25	2.16	mg/Kg
Client ID : TP-24								
Q2032-04	TP-24	SOIL	Aluminum	4380		0.93	5.55	mg/Kg
Q2032-04	TP-24	SOIL	Arsenic	3.54		0.21	1.11	mg/Kg
Q2032-04	TP-24	SOIL	Barium	18.5		0.81	5.55	mg/Kg
Q2032-04	TP-24	SOIL	Beryllium	0.38		0.028	0.33	mg/Kg
Q2032-04	TP-24	SOIL	Cadmium	0.27	J	0.027	0.33	mg/Kg
Q2032-04	TP-24	SOIL	Calcium	351		12.3	111	mg/Kg
Q2032-04	TP-24	SOIL	Chromium	16.8		0.052	0.56	mg/Kg
Q2032-04	TP-24	SOIL	Cobalt	1.63	J	0.11	1.66	mg/Kg
Q2032-04	TP-24	SOIL	Copper	13.5		0.24	1.11	mg/Kg
Q2032-04	TP-24	SOIL	Iron	24300		4.43	5.55	mg/Kg
Q2032-04	TP-24	SOIL	Lead	11.7		0.14	0.67	mg/Kg
Q2032-04	TP-24	SOIL	Magnesium	287		13.3	111	mg/Kg
Q2032-04	TP-24	SOIL	Manganese	16.5		0.16	1.11	mg/Kg
Q2032-04	TP-24	SOIL	Mercury	0.030		0.0090	0.016	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2032
Client: CDM Smith

Order ID: Q2032
Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2032-04	TP-24	SOIL	Nickel	2.56		0.14	2.22	mg/Kg
Q2032-04	TP-24	SOIL	Potassium	427		30.7	111	mg/Kg
Q2032-04	TP-24	SOIL	Sodium	388		19.7	111	mg/Kg
Q2032-04	TP-24	SOIL	Thallium	1.91	J	0.26	2.22	mg/Kg
Q2032-04	TP-24	SOIL	Vanadium	26.4		0.28	2.22	mg/Kg
Q2032-04	TP-24	SOIL	Zinc	15.3		0.26	2.22	mg/Kg
Client ID : TP-37								
Q2032-07	TP-37	SOIL	Aluminum	3890		0.95	5.66	mg/Kg
Q2032-07	TP-37	SOIL	Arsenic	5.80		0.22	1.13	mg/Kg
Q2032-07	TP-37	SOIL	Barium	36.0		0.83	5.66	mg/Kg
Q2032-07	TP-37	SOIL	Beryllium	0.39		0.028	0.34	mg/Kg
Q2032-07	TP-37	SOIL	Cadmium	0.049	J	0.027	0.34	mg/Kg
Q2032-07	TP-37	SOIL	Calcium	763		12.6	113	mg/Kg
Q2032-07	TP-37	SOIL	Chromium	16.7		0.053	0.57	mg/Kg
Q2032-07	TP-37	SOIL	Cobalt	1.68	J	0.11	1.70	mg/Kg
Q2032-07	TP-37	SOIL	Copper	6.43		0.25	1.13	mg/Kg
Q2032-07	TP-37	SOIL	Iron	11700		4.52	5.66	mg/Kg
Q2032-07	TP-37	SOIL	Lead	7.40		0.15	0.68	mg/Kg
Q2032-07	TP-37	SOIL	Magnesium	182		13.6	113	mg/Kg
Q2032-07	TP-37	SOIL	Manganese	18.1		0.16	1.13	mg/Kg
Q2032-07	TP-37	SOIL	Mercury	0.021		0.0090	0.017	mg/Kg
Q2032-07	TP-37	SOIL	Nickel	4.26		0.15	2.27	mg/Kg
Q2032-07	TP-37	SOIL	Potassium	127		31.4	113	mg/Kg
Q2032-07	TP-37	SOIL	Sodium	150		20.2	113	mg/Kg
Q2032-07	TP-37	SOIL	Thallium	0.80	J	0.26	2.27	mg/Kg
Q2032-07	TP-37	SOIL	Vanadium	23.6		0.28	2.27	mg/Kg
Q2032-07	TP-37	SOIL	Zinc	20.7		0.26	2.27	mg/Kg
Client ID : TP-32								
Q2032-08	TP-32	SOIL	Aluminum	4640		0.81	4.84	mg/Kg
Q2032-08	TP-32	SOIL	Arsenic	2.14		0.18	0.97	mg/Kg
Q2032-08	TP-32	SOIL	Barium	20.9		0.71	4.84	mg/Kg
Q2032-08	TP-32	SOIL	Beryllium	0.39		0.024	0.29	mg/Kg
Q2032-08	TP-32	SOIL	Cadmium	0.14	J	0.023	0.29	mg/Kg
Q2032-08	TP-32	SOIL	Calcium	147		10.8	96.8	mg/Kg
Q2032-08	TP-32	SOIL	Chromium	5.85		0.046	0.48	mg/Kg
Q2032-08	TP-32	SOIL	Cobalt	2.63		0.097	1.45	mg/Kg
Q2032-08	TP-32	SOIL	Copper	4.25		0.21	0.97	mg/Kg
Q2032-08	TP-32	SOIL	Iron	10600		3.86	4.84	mg/Kg
Q2032-08	TP-32	SOIL	Lead	22.1		0.13	0.58	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2032

Order ID: Q2032

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2032-08	TP-32	SOIL	Magnesium	242		11.6	96.8	mg/Kg
Q2032-08	TP-32	SOIL	Manganese	49.6		0.14	0.97	mg/Kg
Q2032-08	TP-32	SOIL	Mercury	0.069		0.0090	0.016	mg/Kg
Q2032-08	TP-32	SOIL	Nickel	3.02		0.13	1.94	mg/Kg
Q2032-08	TP-32	SOIL	Potassium	93.4	J	26.8	96.8	mg/Kg
Q2032-08	TP-32	SOIL	Sodium	66.9	J	17.2	96.8	mg/Kg
Q2032-08	TP-32	SOIL	Thallium	0.61	J	0.22	1.94	mg/Kg
Q2032-08	TP-32	SOIL	Vanadium	13.9		0.24	1.94	mg/Kg
Q2032-08	TP-32	SOIL	Zinc	9.33		0.22	1.94	mg/Kg
Client ID : FB-05132025								
Q2032-11	FB-05132025	Water	Manganese	3.50	J	2.97	10.0	ug/L
Q2032-11	FB-05132025	Water	Zinc	16.0	J	8.33	20.0	ug/L



SAMPLE DATA

A

B

C

D

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-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	76.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3420	*	1	0.99	5.88	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-36-0	Antimony	0.26	UN	1	0.26	2.94	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-38-2	Arsenic	7.54		1	0.22	1.18	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-39-3	Barium	10.3	N	1	0.86	5.88	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-41-7	Beryllium	0.40		1	0.029	0.35	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-43-9	Cadmium	0.33	J	1	0.028	0.35	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-70-2	Calcium	278	*	1	13.0	118	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-47-3	Chromium	12.7		1	0.055	0.59	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-48-4	Cobalt	1.49	J	1	0.12	1.76	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-50-8	Copper	9.16		1	0.26	1.18	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7439-89-6	Iron	17000	*	1	4.69	5.88	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7439-92-1	Lead	10.3	*	1	0.15	0.71	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7439-95-4	Magnesium	285	N*	1	14.1	118	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7439-96-5	Manganese	31.5	N*	1	0.17	1.18	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7439-97-6	Mercury	0.033		1	0.010	0.017	mg/Kg	05/15/25 08:55	05/15/25 14:01	7471B	
7440-02-0	Nickel	1.98	J	1	0.15	2.35	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-09-7	Potassium	322	N	1	32.6	118	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7782-49-2	Selenium	0.31	UN	1	0.31	1.18	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-22-4	Silver	0.14	UN	1	0.14	0.59	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-23-5	Sodium	211	N*	1	20.9	118	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-28-0	Thallium	1.41	J	1	0.27	2.35	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-62-2	Vanadium	17.8	N*	1	0.29	2.35	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050
7440-66-6	Zinc	10.7	N	1	0.27	2.35	mg/Kg	05/15/25 10:05	05/20/25 14:37	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8350	*	1	0.91	5.40	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.70	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-38-2	Arsenic	4.45		1	0.21	1.08	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-39-3	Barium	40.7	N	1	0.79	5.40	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-41-7	Beryllium	0.51		1	0.027	0.32	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-70-2	Calcium	642	*	1	12.0	108	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-47-3	Chromium	13.8		1	0.051	0.54	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-48-4	Cobalt	2.10		1	0.11	1.62	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-50-8	Copper	4.85		1	0.24	1.08	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7439-89-6	Iron	19400	*	1	4.31	5.40	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7439-92-1	Lead	7.58	*	1	0.14	0.65	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7439-95-4	Magnesium	383	N*	1	13.0	108	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7439-96-5	Manganese	36.1	N*	1	0.15	1.08	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7439-97-6	Mercury	0.020		1	0.0090	0.016	mg/Kg	05/15/25 08:55	05/15/25 14:03	7471B	
7440-02-0	Nickel	5.81		1	0.14	2.16	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-09-7	Potassium	256	N	1	29.9	108	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7782-49-2	Selenium	0.28	UN	1	0.28	1.08	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-22-4	Silver	0.22	JN	1	0.13	0.54	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-23-5	Sodium	278	N*	1	19.2	108	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-28-0	Thallium	1.30	J	1	0.25	2.16	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-62-2	Vanadium	24.8	N*	1	0.27	2.16	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050
7440-66-6	Zinc	14.0	N	1	0.25	2.16	mg/Kg	05/15/25 10:05	05/20/25 14:41	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4670	*	1	0.91	5.41	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.70	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-38-2	Arsenic	3.71		1	0.21	1.08	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-39-3	Barium	27.3	N	1	0.79	5.41	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-41-7	Beryllium	0.41		1	0.027	0.33	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.33	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-70-2	Calcium	641	*	1	12.0	108	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-47-3	Chromium	10.3		1	0.051	0.54	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-48-4	Cobalt	1.82		1	0.11	1.62	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-50-8	Copper	5.19		1	0.24	1.08	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7439-89-6	Iron	16400	*	1	4.32	5.41	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7439-92-1	Lead	14.3	*	1	0.14	0.65	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7439-95-4	Magnesium	308	N*	1	13.0	108	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7439-96-5	Manganese	49.9	N*	1	0.15	1.08	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7439-97-6	Mercury	0.14		1	0.0090	0.016	mg/Kg	05/15/25 08:55	05/15/25 14:06	7471B	
7440-02-0	Nickel	3.76		1	0.14	2.16	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-09-7	Potassium	192	N	1	30.0	108	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7782-49-2	Selenium	0.28	UN	1	0.28	1.08	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.54	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-23-5	Sodium	198	N*	1	19.3	108	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-28-0	Thallium	0.99	J	1	0.25	2.16	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-62-2	Vanadium	19.1	N*	1	0.27	2.16	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050
7440-66-6	Zinc	12.8	N	1	0.25	2.16	mg/Kg	05/15/25 10:05	05/20/25 14:54	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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
Level (low/med):	low	% Solid:	74.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4380	*	1	0.93	5.55	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.77	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-38-2	Arsenic	3.54		1	0.21	1.11	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-39-3	Barium	18.5	N	1	0.81	5.55	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-41-7	Beryllium	0.38		1	0.028	0.33	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-43-9	Cadmium	0.27	J	1	0.027	0.33	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-70-2	Calcium	351	*	1	12.3	111	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-47-3	Chromium	16.8		1	0.052	0.56	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-48-4	Cobalt	1.63	J	1	0.11	1.66	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-50-8	Copper	13.5		1	0.24	1.11	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7439-89-6	Iron	24300	*	1	4.43	5.55	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7439-92-1	Lead	11.7	*	1	0.14	0.67	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7439-95-4	Magnesium	287	N*	1	13.3	111	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7439-96-5	Manganese	16.5	N*	1	0.16	1.11	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7439-97-6	Mercury	0.030		1	0.0090	0.016	mg/Kg	05/15/25 08:55	05/15/25 14:08	7471B	
7440-02-0	Nickel	2.56		1	0.14	2.22	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-09-7	Potassium	427	N	1	30.7	111	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7782-49-2	Selenium	0.29	UN	1	0.29	1.11	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.56	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-23-5	Sodium	388	N*	1	19.7	111	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-28-0	Thallium	1.91	J	1	0.26	2.22	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-62-2	Vanadium	26.4	N*	1	0.28	2.22	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050
7440-66-6	Zinc	15.3	N	1	0.26	2.22	mg/Kg	05/15/25 10:05	05/20/25 14:58	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

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-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3890	*	1	0.95	5.66	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.83	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-38-2	Arsenic	5.80		1	0.22	1.13	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-39-3	Barium	36.0	N	1	0.83	5.66	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-41-7	Beryllium	0.39		1	0.028	0.34	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-43-9	Cadmium	0.049	J	1	0.027	0.34	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-70-2	Calcium	763	*	1	12.6	113	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-47-3	Chromium	16.7		1	0.053	0.57	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-48-4	Cobalt	1.68	J	1	0.11	1.70	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-50-8	Copper	6.43		1	0.25	1.13	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7439-89-6	Iron	11700	*	1	4.52	5.66	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7439-92-1	Lead	7.40	*	1	0.15	0.68	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7439-95-4	Magnesium	182	N*	1	13.6	113	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7439-96-5	Manganese	18.1	N*	1	0.16	1.13	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7439-97-6	Mercury	0.021		1	0.0090	0.017	mg/Kg	05/15/25 08:55	05/15/25 14:20	7471B	
7440-02-0	Nickel	4.26		1	0.15	2.27	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-09-7	Potassium	127	N	1	31.4	113	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7782-49-2	Selenium	0.30	UN	1	0.30	1.13	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-22-4	Silver	0.14	UN	1	0.14	0.57	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-23-5	Sodium	150	N*	1	20.2	113	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-28-0	Thallium	0.80	J	1	0.26	2.27	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-62-2	Vanadium	23.6	N*	1	0.28	2.27	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050
7440-66-6	Zinc	20.7	N	1	0.26	2.27	mg/Kg	05/15/25 10:05	05/20/25 15:23	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4640	*	1	0.81	4.84	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.42	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-38-2	Arsenic	2.14		1	0.18	0.97	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-39-3	Barium	20.9	N	1	0.71	4.84	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-41-7	Beryllium	0.39		1	0.024	0.29	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-43-9	Cadmium	0.14	J	1	0.023	0.29	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-70-2	Calcium	147	*	1	10.8	96.8	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-47-3	Chromium	5.85		1	0.046	0.48	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-48-4	Cobalt	2.63		1	0.097	1.45	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-50-8	Copper	4.25		1	0.21	0.97	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7439-89-6	Iron	10600	*	1	3.86	4.84	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7439-92-1	Lead	22.1	*	1	0.13	0.58	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7439-95-4	Magnesium	242	N*	1	11.6	96.8	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7439-96-5	Manganese	49.6	N*	1	0.14	0.97	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7439-97-6	Mercury	0.069		1	0.0090	0.016	mg/Kg	05/15/25 08:55	05/15/25 14:30	7471B	
7440-02-0	Nickel	3.02		1	0.13	1.94	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-09-7	Potassium	93.4	JN	1	26.8	96.8	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7782-49-2	Selenium	0.25	UN	1	0.25	0.97	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.48	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-23-5	Sodium	66.9	JN*	1	17.2	96.8	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-28-0	Thallium	0.61	J	1	0.22	1.94	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-62-2	Vanadium	13.9	N*	1	0.24	1.94	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050
7440-66-6	Zinc	9.33	N	1	0.22	1.94	mg/Kg	05/15/25 10:05	05/20/25 15:27	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5.67	U	1	5.67	50.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-36-0	Antimony	3.38	U	1	3.38	25.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-39-3	Barium	7.28	U	1	7.28	50.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-43-9	Cadmium	0.25	U	1	0.25	3.00	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-70-2	Calcium	117	U	1	117	1000	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-50-8	Copper	2.30	U	1	2.30	10.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7439-89-6	Iron	11.7	UN	1	11.7	50.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7439-92-1	Lead	1.15	U	1	1.15	6.00	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7439-95-4	Magnesium	122	U	1	122	1000	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7439-96-5	Manganese	3.50	J	1	2.97	10.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7439-97-6	Mercury	0.076	UN*1		0.076	0.20	ug/L	05/16/25 09:13	05/19/25 11:49	7470A	
7440-02-0	Nickel	1.53	U	1	1.53	20.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-09-7	Potassium	459	U	1	459	1000	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-22-4	Silver	0.81	UN	1	0.81	5.00	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-23-5	Sodium	434	U	1	434	1000	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-28-0	Thallium	2.19	U	1	2.19	20.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010
7440-66-6	Zinc	16.0	J	1	8.33	20.0	ug/L	05/16/25 10:30	05/19/25 18:12	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL			05/13/25			05/13/25
			Mercury	7471B		05/15/25	05/15/25	
			Metals ICP-TAL	6010D		05/15/25	05/20/25	
Q2032-02	TP-29	SOIL			05/13/25			05/13/25
			Mercury	7471B		05/15/25	05/15/25	
			Metals ICP-TAL	6010D		05/15/25	05/20/25	
Q2032-03	TP-29-99	SOIL			05/13/25			05/13/25
			Mercury	7471B		05/15/25	05/15/25	
			Metals ICP-TAL	6010D		05/15/25	05/20/25	
Q2032-04	TP-24	SOIL			05/13/25			05/13/25
			Mercury	7471B		05/15/25	05/15/25	
			Metals ICP-TAL	6010D		05/15/25	05/20/25	
Q2032-07	TP-37	SOIL			05/13/25			05/13/25
			Mercury	7471B		05/15/25	05/15/25	
			Metals ICP-TAL	6010D		05/15/25	05/20/25	
Q2032-08	TP-32	SOIL			05/13/25			05/13/25
			Mercury	7471B		05/15/25	05/15/25	
			Metals ICP-TAL	6010D		05/15/25	05/20/25	
Q2032-09	COMP-1	TCLP			05/13/25			05/13/25
			TCLP ICP Metals	6010D		05/15/25	05/19/25	
			TCLP Mercury	7470A		05/16/25	05/19/25	
Q2032-11	FB-05132025	Water			05/13/25			05/13/25
			Mercury	7470A		05/16/25	05/19/25	
			Metals ICP-TAL	6010D		05/16/25	05/19/25	



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

Hit Summary Sheet
SW-846

SDG No.:	Q2032	Order ID:	Q2032
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP-1								
Q2032-09	COMP-1	TCLP	Barium	822		72.8	500	ug/L
Q2032-09	COMP-1	TCLP	Lead	62.4		11.5	60.0	ug/L



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	COMP-1	SDG No.:	Q2032
Lab Sample ID:	Q2032-09	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	05/15/25 12:30	05/19/25 16:11	6010D	SW3050
7440-39-3	Barium	822		1	72.8	500	ug/L	05/15/25 12:30	05/19/25 16:11	6010D	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	05/15/25 12:30	05/19/25 16:11	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	05/15/25 12:30	05/19/25 16:11	6010D	SW3050
7439-92-1	Lead	62.4		1	11.5	60.0	ug/L	05/15/25 12:30	05/19/25 16:11	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	05/16/25 15:10	05/19/25 11:01	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	05/15/25 12:30	05/19/25 16:11	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	05/15/25 12:30	05/19/25 16:11	6010D	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP-FULL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits



LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-09	COMP-1	TCLP			05/13/25			05/13/25
			TCLP ICP Metals	6010D		05/15/25	05/19/25	
			TCLP Mercury	7470A		05/16/25	05/19/25	



A

B

C

SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25 14:05
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	COMP-1	SDG No.:	Q2032
Lab Sample ID:	Q2032-09	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	5.12	H	1	0	0	pH		05/14/25 15:50	9045D
Ignitability	NO		1	0	0	oC		05/15/25 11:40	1030
Reactive Cyanide	0.010	J	1	0.0083	0.050	mg/Kg	05/16/25 08:45	05/16/25 13:08	9012B
Reactive Sulfide	6.34	J	1	0.20	10.0	mg/Kg	05/15/25 08:50	05/15/25 11:25	9034

Comments: pH result reported at temperature 21.5 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-09	COMP-1	SOIL			05/13/25 14:05			05/13/25
			Corrosivity	9045D			05/14/25 15:50	
			Ignitability	1030			05/15/25 11:40	
			Reactive Cyanide	9012B		05/16/25	05/16/25 13:08	
			Reactive Sulfide	9034		05/15/25	05/15/25 11:25	