

LAB CHRONICLE

OrderID:	Q2413	OrderDate:	6/24/2025 3:05:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2413-01	TP-35	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/26/25	06/24/25
Q2413-02	TP-34	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/25/25	06/24/25
Q2413-03	TP-77	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/25/25	06/24/25
Q2413-04	TP-74	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/25/25	06/24/25
Q2413-05	TP-73	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/25/25	06/24/25
Q2413-06	TP-72	SOIL	VOC-TCLVOA-10	8260D	06/24/25		06/26/25	06/24/25

Hit Summary Sheet
SW-846

SDG No.: Q2413
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q2413-01	TP-35 TP-35	SOIL	Toluene	2.50	J	0.67	4.30	ug/Kg
			Total Voc :	2.50				
			Total Concentration:	2.50				
Client ID: Q2413-02	TP-34 TP-34	SOIL	Methylene Chloride	6.50	J	2.90	8.20	ug/Kg
			Total Voc :	6.50				
Q2413-02	TP-34	SOIL	Naphthalene, 2-ethenyl-	* 6.80	J	0	0	ug/Kg
			Total Tics :	6.80				
			Total Concentration:	13.3				
Client ID: Q2413-03	TP-77 TP-77	SOIL	Methylene Chloride	5.10	J	3.30	9.20	ug/Kg
			Total Voc :	5.10				
			Total Concentration:	5.10				
Client ID: Q2413-04	TP-74 TP-74	SOIL	Methylene Chloride	5.60	J	3.00	8.60	ug/Kg
			Total Voc :	5.60				
			Total Concentration:	5.60				
Client ID: Q2413-05	TP-73 TP-73	SOIL	Acetone	120		4.90	26.1	ug/Kg
Q2413-05	TP-73	SOIL	Methylene Chloride	8.20	J	3.70	10.4	ug/Kg
Q2413-05	TP-73	SOIL	2-Butanone	19.3	J	6.80	26.1	ug/Kg
			Total Voc :	148				
			Total Concentration:	148				
Client ID: Q2413-06	TP-72 TP-72	SOIL	Methylene Chloride	6.20	J	3.10	8.80	ug/Kg
Q2413-06	TP-72	SOIL	Methylcyclohexane	13.8		0.80	4.40	ug/Kg
Q2413-06	TP-72	SOIL	m/p-Xylenes	3.40	J	1.10	8.80	ug/Kg
Q2413-06	TP-72	SOIL	o-Xylene	2.00	J	0.72	4.40	ug/Kg
			Total Voc :	25.4				
Q2413-06	TP-72	SOIL	Octane	* 37.8	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Heptane, 3-methyl-	* 21.4	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	2-Acetylcyclopentanone	* 66.8	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, ethyl-	* 33.7	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,3,5-trimethyl-	* 21.6	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2-dimethyl-, cis	* 22.6	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,3-dimethyl-, trans	* 45.0	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Octane, 3-methyl-	* 22.7	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,1,3-trimethyl-	* 21.8	J	0	0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2413

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2-dimethyl-, tr	* 29.5	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	1,2,4-Trimethylbenzene	* 1.10	J	0.56	4.40	ug/Kg
Total Tics :					324			
Total Concentration:					349			



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.8
Sample Wt/Vol:	6.55 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
VY022844.D	1		06/26/25 12:56	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.98	U	0.98	4.30	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	U	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.91	U	0.91	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	4.10	U	4.10	21.5	ug/Kg
75-15-0	Carbon Disulfide	0.91	U	0.91	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.83	U	0.83	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.64	U	0.64	4.30	ug/Kg
74-97-5	Bromochloromethane	0.99	U	0.99	4.30	ug/Kg
67-66-3	Chloroform	0.72	U	0.72	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.78	U	0.78	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.5	ug/Kg
108-88-3	Toluene	2.50	J	0.67	4.30	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.8
Sample Wt/Vol:	6.55 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
VY022844.D	1		06/26/25 12:56	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.90	U	0.90	4.30	ug/Kg
108-90-7	Chlorobenzene	0.78	U	0.78	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.4		63 - 155	95%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.3		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.9		17 - 146	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	307000	7.713			
540-36-3	1,4-Difluorobenzene	584000	8.616			
3114-55-4	Chlorobenzene-d5	574000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	247000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.8
Sample Wt/Vol:	6.55	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
VY022844.D	1		06/26/25 12:56	VY062625

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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	6.66 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
VY022820.D	1		06/25/25 13:22	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.93	U	0.93	4.10	ug/Kg
74-87-3	Chloromethane	0.93	U	0.93	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.64	U	0.64	4.10	ug/Kg
74-83-9	Bromomethane	0.87	U	0.87	4.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.99	U	0.99	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.86	U	0.86	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.82	U	0.82	4.10	ug/Kg
67-64-1	Acetone	3.90	U	3.90	20.4	ug/Kg
75-15-0	Carbon Disulfide	0.86	U	0.86	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.60	U	0.60	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	6.50	J	2.90	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.10	ug/Kg
78-93-3	2-Butanone	5.30	U	5.30	20.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.79	U	0.79	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	4.10	ug/Kg
74-97-5	Bromochloromethane	0.94	U	0.94	4.10	ug/Kg
67-66-3	Chloroform	0.69	U	0.69	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.74	U	0.74	4.10	ug/Kg
71-43-2	Benzene	0.64	U	0.64	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.64	U	0.64	4.10	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.74	U	0.74	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.64	U	0.64	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.4	ug/Kg
108-88-3	Toluene	0.64	U	0.64	4.10	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	6.66	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
VY022820.D	1		06/25/25 13:22	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.53	U	0.53	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.75	U	0.75	4.10	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.4	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.72	U	0.72	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.86	U	0.86	4.10	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.55	U	0.55	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.20	ug/Kg
95-47-6	o-Xylene	0.67	U	0.67	4.10	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.10	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.64	U	0.64	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.99	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	38.7	63 - 155	77%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1	70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	49.1	74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6	17 - 146	101%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	392000	7.707
540-36-3	1,4-Difluorobenzene	691000	8.61
3114-55-4	Chlorobenzene-d5	623000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	266000	13.34

TENTATIVE IDENTIFIED COMPOUNDS

A
B
C
D
E
F
G

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	6.66	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022820.D	1		06/25/25 13:22	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000827-54-3	Naphthalene, 2-ethenyl-	6.80	J		14.5	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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.92 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
VY022821.D	1		06/25/25 13:45	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.60	ug/Kg
74-83-9	Bromomethane	0.99	U	0.99	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	0.98	U	0.98	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.92	U	0.92	4.60	ug/Kg
67-64-1	Acetone	4.40	U	4.40	23.1	ug/Kg
75-15-0	Carbon Disulfide	0.98	U	0.98	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	5.10	J	3.30	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	0.74	U	0.74	4.60	ug/Kg
110-82-7	Cyclohexane	0.73	U	0.73	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	23.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.90	U	0.90	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	0.78	U	0.78	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.86	U	0.86	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.84	U	0.84	4.60	ug/Kg
71-43-2	Benzene	0.73	U	0.73	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	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	23.1	ug/Kg
108-88-3	Toluene	0.72	U	0.72	4.60	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.92 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
VY022821.D	1		06/25/25 13:45	VY062525

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	0.85	U	0.85	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	23.1	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	0.97	U	0.97	4.60	ug/Kg
108-90-7	Chlorobenzene	0.84	U	0.84	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.20	ug/Kg
95-47-6	o-Xylene	0.76	U	0.76	4.60	ug/Kg
100-42-5	Styrene	0.66	U	0.66	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	38.8		63 - 155	78%	SPK: 50
1868-53-7	Dibromofluoromethane	45.9		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	49.1		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.0		17 - 146	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	382000	7.707			
540-36-3	1,4-Difluorobenzene	682000	8.61			
3114-55-4	Chlorobenzene-d5	597000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	245000	13.34			

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.92	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
VY022821.D	1		06/25/25 13:45	VY062525

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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.5
Sample Wt/Vol:	6.51 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
VY022822.D	1		06/25/25 14:08	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.98	U	0.98	4.30	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	U	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.91	U	0.91	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	4.10	U	4.10	21.5	ug/Kg
75-15-0	Carbon Disulfide	0.91	U	0.91	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	5.60	J	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.83	U	0.83	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.64	U	0.64	4.30	ug/Kg
74-97-5	Bromochloromethane	0.99	U	0.99	4.30	ug/Kg
67-66-3	Chloroform	0.72	U	0.72	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.78	U	0.78	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.5	ug/Kg
108-88-3	Toluene	0.67	U	0.67	4.30	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.5
Sample Wt/Vol:	6.51 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
VY022822.D	1		06/25/25 14:08	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.90	U	0.90	4.30	ug/Kg
108-90-7	Chlorobenzene	0.78	U	0.78	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.57	U	0.57	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	2.50	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.3		63 - 155	87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	49.7		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	386000	7.707			
540-36-3	1,4-Difluorobenzene	689000	8.609			
3114-55-4	Chlorobenzene-d5	620000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	262000	13.34			

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.5
Sample Wt/Vol:	6.51	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
VY022822.D	1		06/25/25 14:08	VY062525

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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.1
Sample Wt/Vol:	6.22 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
VY022823.D	1		06/25/25 14:32	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.20	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.20	ug/Kg
75-01-4	Vinyl Chloride	0.82	U	0.82	5.20	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.20	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.20	ug/Kg
67-64-1	Acetone	120		4.90	26.1	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.76	U	0.76	5.20	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.20	ug/Kg
75-09-2	Methylene Chloride	8.20	J	3.70	10.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.90	U	0.90	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.83	U	0.83	5.20	ug/Kg
110-82-7	Cyclohexane	0.82	U	0.82	5.20	ug/Kg
78-93-3	2-Butanone	19.3	J	6.80	26.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	5.20	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.20	ug/Kg
67-66-3	Chloroform	0.88	U	0.88	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.97	U	0.97	5.20	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.20	ug/Kg
71-43-2	Benzene	0.82	U	0.82	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.82	U	0.82	5.20	ug/Kg
79-01-6	Trichloroethene	0.84	U	0.84	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.95	U	0.95	5.20	ug/Kg
75-27-4	Bromodichloromethane	0.81	U	0.81	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	26.1	ug/Kg
108-88-3	Toluene	0.81	U	0.81	5.20	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.1
Sample Wt/Vol:	6.22 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
VY022823.D	1		06/25/25 14:32	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.68	U	0.68	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.65	U	0.65	5.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.96	U	0.96	5.20	ug/Kg
591-78-6	2-Hexanone	3.80	U	3.80	26.1	ug/Kg
124-48-1	Dibromochloromethane	0.91	U	0.91	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.92	U	0.92	5.20	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.20	ug/Kg
108-90-7	Chlorobenzene	0.95	U	0.95	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.70	U	0.70	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.4	ug/Kg
95-47-6	o-Xylene	0.85	U	0.85	5.20	ug/Kg
100-42-5	Styrene	0.74	U	0.74	5.20	ug/Kg
75-25-2	Bromoform	0.90	U	0.90	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.81	U	0.81	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	3.30	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.3		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	49.0		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		17 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	353000	7.701			
540-36-3	1,4-Difluorobenzene	632000	8.609			
3114-55-4	Chlorobenzene-d5	568000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	244000	13.34			

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.1
Sample Wt/Vol:	6.22 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
VY022823.D	1		06/25/25 14:32	VY062525

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:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87
Sample Wt/Vol:	6.53 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
VY022845.D	1		06/26/25 13:20	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.70	U	0.70	4.40	ug/Kg
74-83-9	Bromomethane	0.94	U	0.94	4.40	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.93	U	0.93	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.88	U	0.88	4.40	ug/Kg
67-64-1	Acetone	4.20	U	4.20	22.0	ug/Kg
75-15-0	Carbon Disulfide	0.93	U	0.93	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.64	U	0.64	4.40	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	6.20	J	3.10	8.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.76	U	0.76	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.70	U	0.70	4.40	ug/Kg
110-82-7	Cyclohexane	0.70	U	0.70	4.40	ug/Kg
78-93-3	2-Butanone	5.80	U	5.80	22.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.85	U	0.85	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.66	U	0.66	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.74	U	0.74	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.82	U	0.82	4.40	ug/Kg
108-87-2	Methylcyclohexane	13.8		0.80	4.40	ug/Kg
71-43-2	Benzene	0.70	U	0.70	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.70	U	0.70	4.40	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.80	U	0.80	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.69	U	0.69	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.0	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87
Sample Wt/Vol:	6.53	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
VY022845.D	1		06/26/25 13:20	VY062625

[illegible]

Report of Analysis

Client:	CDM Smith	Date Collected:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87
Sample Wt/Vol:	6.53 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
VY022845.D	1		06/26/25 13:20	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000589-81-1	Heptane, 3-methyl-	21.4	J		9.89	ug/Kg
000111-65-9	Octane	37.8	J		10.3	ug/Kg
006876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	29.5	J		10.5	ug/Kg
002207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	45.0	J		10.5	ug/Kg
001839-63-0	Cyclohexane, 1,3,5-trimethyl-	21.6	J		10.9	ug/Kg
002207-01-4	Cyclohexane, 1,2-dimethyl-, cis-	22.6	J		10.9	ug/Kg
001678-91-7	Cyclohexane, ethyl-	33.7	J		11.0	ug/Kg
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	21.8	J		11.0	ug/Kg
001670-46-8	2-Acetylcyclopentanone	66.8	J		11.2	ug/Kg
002216-33-3	Octane, 3-methyl-	22.7	J		11.3	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.10	J		13.0	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



QC SUMMARY

Surrogate Summary

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2413-01	TP-35	1,2-Dichloroethane-d4	50	47.4	95	63	155
		Dibromofluoromethane	50	50.5	101	70	134
		Toluene-d8	50	50.3	101	74	123
		4-Bromofluorobenzene	50	54.9	110	17	146
Q2413-02	TP-34	1,2-Dichloroethane-d4	50	38.7	77	63	155
		Dibromofluoromethane	50	46.1	92	70	134
		Toluene-d8	50	49.1	98	74	123
		4-Bromofluorobenzene	50	50.6	101	17	146
Q2413-03	TP-77	1,2-Dichloroethane-d4	50	38.9	78	63	155
		Dibromofluoromethane	50	45.9	92	70	134
		Toluene-d8	50	49.1	98	74	123
		4-Bromofluorobenzene	50	48.0	96	17	146
Q2413-04	TP-74	1,2-Dichloroethane-d4	50	43.3	87	63	155
		Dibromofluoromethane	50	49.2	98	70	134
		Toluene-d8	50	49.7	99	74	123
		4-Bromofluorobenzene	50	49.3	99	17	146
Q2413-05	TP-73	1,2-Dichloroethane-d4	50	46.3	93	63	155
		Dibromofluoromethane	50	49.4	99	70	134
		Toluene-d8	50	49.0	98	74	123
		4-Bromofluorobenzene	50	50.3	101	17	146
Q2413-06	TP-72	1,2-Dichloroethane-d4	50	47.8	96	63	155
		Dibromofluoromethane	50	50.5	101	70	134
		Toluene-d8	50	57.0	114	74	123
		4-Bromofluorobenzene	50	53.8	108	17	146
VY0625SBL01	VY0625SBL01	1,2-Dichloroethane-d4	50	48.2	96	63	155
		Dibromofluoromethane	50	49.8	100	70	134
		Toluene-d8	50	49.3	99	74	123
		4-Bromofluorobenzene	50	53.3	107	17	146
VY0625SBS01	VY0625SBS01	1,2-Dichloroethane-d4	50	50.1	100	63	155
		Dibromofluoromethane	50	50.1	100	70	134
		Toluene-d8	50	51.1	102	74	123
		4-Bromofluorobenzene	50	49.7	99	17	146
VY0625SBSD01	VY0625SBSD01	1,2-Dichloroethane-d4	50	51.0	102	63	155
		Dibromofluoromethane	50	51.1	102	70	134
		Toluene-d8	50	51.5	103	74	123
		4-Bromofluorobenzene	50	49.5	99	17	146
VY0626SBL01	VY0626SBL01	1,2-Dichloroethane-d4	50	49.9	100	63	155
		Dibromofluoromethane	50	50.3	101	70	134
		Toluene-d8	50	49.8	100	74	123
		4-Bromofluorobenzene	50	53.7	107	17	146
VY0626SBS01	VY0626SBS01	1,2-Dichloroethane-d4	50	51.8	104	63	155
		Dibromofluoromethane	50	50.4	101	70	134
		Toluene-d8	50	51.0	102	74	123
		4-Bromofluorobenzene	50	50.0	100	17	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022813.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0625SBS01	Dichlorodifluoromethane	20	21.9	ug/Kg	110			64	136	
	Chloromethane	20	19.1	ug/Kg	96			52	151	
	Vinyl chloride	20	20.3	ug/Kg	102			56	148	
	Bromomethane	20	22.7	ug/Kg	114			58	141	
	Chloroethane	20	20.3	ug/Kg	102			69	130	
	Trichlorofluoromethane	20	20.9	ug/Kg	104			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.3	ug/Kg	102			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	20.1	ug/Kg	101			59	130	
	Methyl tert-butyl Ether	20	20.4	ug/Kg	102			77	129	
	Methyl Acetate	20	18.3	ug/Kg	92			69	149	
	Methylene Chloride	20	22.2	ug/Kg	111			72	131	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			80	123	
	1,1-Dichloroethane	20	20.0	ug/Kg	100			82	123	
	Cyclohexane	20	20.4	ug/Kg	102			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	20.4	ug/Kg	102			76	129	
	cis-1,2-Dichloroethene	20	20.1	ug/Kg	101			82	123	
	Bromochloromethane	20	19.5	ug/Kg	98			80	127	
	Chloroform	20	20.0	ug/Kg	100			82	125	
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101			80	126	
	Methylcyclohexane	20	20.6	ug/Kg	103			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	20.5	ug/Kg	103			81	126	
	Trichloroethene	20	20.9	ug/Kg	104			83	122	
	1,2-Dichloropropane	20	19.9	ug/Kg	100			83	122	
	Bromodichloromethane	20	20.4	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	20.2	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100			78	124	
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102			81	122	
	1,1,2-Trichloroethane	20	20.5	ug/Kg	103			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	20.2	ug/Kg	101			79	125	
	1,2-Dibromoethane	20	19.9	ug/Kg	100			80	125	
	Tetrachloroethene	20	21.8	ug/Kg	109			83	125	
	Chlorobenzene	20	19.9	ug/Kg	100			84	122	
	Ethyl Benzene	20	20.1	ug/Kg	101			82	124	
	m/p-Xylenes	40	39.8	ug/Kg	100			83	124	
	o-Xylene	20	19.7	ug/Kg	99			83	123	
	Styrene	20	19.6	ug/Kg	98			82	124	
	Bromoform	20	19.5	ug/Kg	98			75	127	
	Isopropylbenzene	20	20.3	ug/Kg	102			82	124	
	1,1,2,2-Tetrachloroethane	20	19.0	ug/Kg	95			77	127	
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99			83	122	
	1,4-Dichlorobenzene	20	19.9	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022813.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0625SBS01	1,2-Dibromo-3-Chloropropane	20	19.3	ug/Kg	97			66	134	
	1,2,4-Trichlorobenzene	20	20.3	ug/Kg	102			78	127	
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022814.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0625SBSD01	Dichlorodifluoromethane	20	21.7	ug/Kg	109	1		64	136	20
	Chloromethane	20	20.0	ug/Kg	100	4		52	151	20
	Vinyl chloride	20	21.0	ug/Kg	105	3		56	148	20
	Bromomethane	20	23.1	ug/Kg	116	2		58	141	20
	Chloroethane	20	20.8	ug/Kg	104	2		69	130	20
	Trichlorofluoromethane	20	20.9	ug/Kg	104	0		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/Kg	104	0		81	123	20
	1,1-Dichloroethene	20	20.7	ug/Kg	104	2		79	121	20
	Acetone	100	130	ug/Kg	130	0		40	171	20
	Carbon disulfide	20	20.4	ug/Kg	102	1		59	130	20
	Methyl tert-butyl Ether	20	20.9	ug/Kg	104	2		77	129	20
	Methyl Acetate	20	18.6	ug/Kg	93	1		69	149	20
	Methylene Chloride	20	21.1	ug/Kg	106	5		72	131	20
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102	2		80	123	20
	1,1-Dichloroethane	20	20.5	ug/Kg	103	3		82	123	20
	Cyclohexane	20	20.4	ug/Kg	102	0		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	20.6	ug/Kg	103	1		76	129	20
	cis-1,2-Dichloroethene	20	20.4	ug/Kg	102	1		82	123	20
	Bromochloromethane	20	19.7	ug/Kg	99	1		80	127	20
	Chloroform	20	20.2	ug/Kg	101	1		82	125	20
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103	2		80	126	20
	Methylcyclohexane	20	20.6	ug/Kg	103	0		77	123	20
	Benzene	20	20.4	ug/Kg	102	1		84	121	20
	1,2-Dichloroethane	20	20.5	ug/Kg	103	0		81	126	20
	Trichloroethene	20	20.4	ug/Kg	102	2		83	122	20
	1,2-Dichloropropane	20	20.3	ug/Kg	102	2		83	122	20
	Bromodichloromethane	20	20.3	ug/Kg	102	0		82	123	20
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	0		70	135	20
	Toluene	20	20.0	ug/Kg	100	1		83	122	20
	t-1,3-Dichloropropene	20	20.1	ug/Kg	101	1		78	124	20
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	1		81	122	20
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102	1		82	125	20
	2-Hexanone	100	110	ug/Kg	110	0		66	138	20
	Dibromochloromethane	20	20.3	ug/Kg	102	1		79	125	20
	1,2-Dibromoethane	20	20.3	ug/Kg	102	2		80	125	20
	Tetrachloroethene	20	18.8	ug/Kg	94	15		83	125	20
	Chlorobenzene	20	20.6	ug/Kg	103	3		84	122	20
	Ethyl Benzene	20	20.6	ug/Kg	103	2		82	124	20
	m/p-Xylenes	40	41.0	ug/Kg	103	3		83	124	20
	o-Xylene	20	20.2	ug/Kg	101	2		83	123	20
	Styrene	20	20.4	ug/Kg	102	4		82	124	20
	Bromoform	20	20.1	ug/Kg	101	3		75	127	20
	Isopropylbenzene	20	21.3	ug/Kg	106	4		82	124	20
	1,1,2,2-Tetrachloroethane	20	22.6	ug/Kg	113	17		77	127	20
	1,3-Dichlorobenzene	20	20.9	ug/Kg	104	5		83	122	20
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	3		84	121	20
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103	4		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022814.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0625SBSD01	1,2-Dibromo-3-Chloropropane	20	20.0	ug/Kg	100	3		66	134	20
	1,2,4-Trichlorobenzene	20	20.2	ug/Kg	101	1		78	127	20
	1,2,3-Trichlorobenzene	20	19.9	ug/Kg	100	2		70	137	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022840.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0626SBS01	Dichlorodifluoromethane	20	20.4	ug/Kg	102			64	136	
	Chloromethane	20	22.2	ug/Kg	111			52	151	
	Vinyl chloride	20	20.0	ug/Kg	100			56	148	
	Bromomethane	20	23.1	ug/Kg	116			58	141	
	Chloroethane	20	19.3	ug/Kg	97			69	130	
	Trichlorofluoromethane	20	19.0	ug/Kg	95			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.5	ug/Kg	103			79	121	
	Acetone	100	150	ug/Kg	150			40	171	
	Carbon disulfide	20	20.4	ug/Kg	102			59	130	
	Methyl tert-butyl Ether	20	21.0	ug/Kg	105			77	129	
	Methyl Acetate	20	18.1	ug/Kg	91			69	149	
	Methylene Chloride	20	23.0	ug/Kg	115			72	131	
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			82	123	
	Cyclohexane	20	20.3	ug/Kg	102			76	122	
	2-Butanone	100	130	ug/Kg	130			69	131	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	20.3	ug/Kg	102			82	123	
	Bromochloromethane	20	20.7	ug/Kg	104			80	127	
	Chloroform	20	20.3	ug/Kg	102			82	125	
	1,1,1-Trichloroethane	20	20.3	ug/Kg	102			80	126	
	Methylcyclohexane	20	20.1	ug/Kg	101			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	20.1	ug/Kg	101			81	126	
	Trichloroethene	20	20.8	ug/Kg	104			83	122	
	1,2-Dichloropropane	20	20.1	ug/Kg	101			83	122	
	Bromodichloromethane	20	20.2	ug/Kg	101			82	123	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			70	135	
	Toluene	20	20.0	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100			78	124	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			81	122	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			82	125	
	2-Hexanone	100	120	ug/Kg	120			66	138	
	Dibromochloromethane	20	20.0	ug/Kg	100			79	125	
	1,2-Dibromoethane	20	20.0	ug/Kg	100			80	125	
	Tetrachloroethene	20	20.8	ug/Kg	104			83	125	
	Chlorobenzene	20	19.9	ug/Kg	100			84	122	
	Ethyl Benzene	20	19.8	ug/Kg	99			82	124	
	m/p-Xylenes	40	39.9	ug/Kg	100			83	124	
	o-Xylene	20	19.8	ug/Kg	99			83	123	
	Styrene	20	19.7	ug/Kg	99			82	124	
	Bromoform	20	19.4	ug/Kg	97			75	127	
	Isopropylbenzene	20	20.5	ug/Kg	103			82	124	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/Kg	104			77	127	
	1,3-Dichlorobenzene	20	20.3	ug/Kg	102			83	122	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022840.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0626SBS01	1,2-Dibromo-3-Chloropropane	20	20.2	ug/Kg	101			66	134	
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99			78	127	
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98			70	137	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0625SBL01

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2413

SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022812.D

Lab Sample ID: VY0625SBL01

Date Analyzed: 06/25/2025

Time Analyzed: 09:46

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0625SBS01	VY0625SBS01	VY022813.D	06/25/2025
VY0625SBSD01	VY0625SBSD01	VY022814.D	06/25/2025
TP-34	Q2413-02	VY022820.D	06/25/2025
TP-77	Q2413-03	VY022821.D	06/25/2025
TP-74	Q2413-04	VY022822.D	06/25/2025
TP-73	Q2413-05	VY022823.D	06/25/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0626SBL01

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2413

SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022839.D

Lab Sample ID: VY0626SBL01

Date Analyzed: 06/26/2025

Time Analyzed: 10:39

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0626SBS01	VY0626SBS01	VY022840.D	06/26/2025
TP-35	Q2413-01	VY022844.D	06/26/2025
TP-72	Q2413-06	VY022845.D	06/26/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413
Lab File ID: VY022775.D BFB Injection Date: 06/23/2025
Instrument ID: MSVOA_Y BFB Injection Time: 10:17
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	81.9
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.2 (95.5) 1
177	5.0 - 9.0% of mass 176	5.1 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY022776.D	06/23/2025	13:38
VSTDIC010	VSTDIC010	VY022777.D	06/23/2025	14:00
VSTDIC020	VSTDIC020	VY022778.D	06/23/2025	14:23
VSTDIC050	VSTDIC050	VY022779.D	06/23/2025	14:46
VSTDIC100	VSTDIC100	VY022780.D	06/23/2025	15:08
VSTDIC150	VSTDIC150	VY022781.D	06/23/2025	15:31

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413
Lab File ID: VY022810.D BFB Injection Date: 06/25/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:41
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23
75	30.0 - 60.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	6 (7.5) 1
176	95.0 - 101.0% of mass 174	79.5 (98.8) 1
177	5.0 - 9.0% of mass 176	5.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022811.D	06/25/2025	09:13
VY0625SBL01	VY0625SBL01	VY022812.D	06/25/2025	09:46
VY0625SBS01	VY0625SBS01	VY022813.D	06/25/2025	10:18
VY0625SBSD01	VY0625SBSD01	VY022814.D	06/25/2025	10:40
TP-34	Q2413-02	VY022820.D	06/25/2025	13:22
TP-77	Q2413-03	VY022821.D	06/25/2025	13:45
TP-74	Q2413-04	VY022822.D	06/25/2025	14:08
TP-73	Q2413-05	VY022823.D	06/25/2025	14:32

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413
Lab File ID: VY022837.D BFB Injection Date: 06/26/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:22
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	86.1
175	5.0 - 9.0% of mass 174	6.1 (7.1) 1
176	95.0 - 101.0% of mass 174	82.8 (96.2) 1
177	5.0 - 9.0% of mass 176	5.5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022838.D	06/26/2025	10:07
VY0626SBL01	VY0626SBL01	VY022839.D	06/26/2025	10:39
VY0626SBS01	VY0626SBS01	VY022840.D	06/26/2025	11:09
TP-35	Q2413-01	VY022844.D	06/26/2025	12:56
TP-72	Q2413-06	VY022845.D	06/26/2025	13:20

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413
Lab File ID: VY022811.D Date Analyzed: 06/25/2025
Instrument ID: MSVOA_Y Time Analyzed: 09:13
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	448549	7.71	727879	8.61	634524	11.41
UPPER LIMIT	897098	8.207	1455760	9.11	1269050	11.914
LOWER LIMIT	224275	7.207	363940	8.11	317262	10.914
EPA SAMPLE NO.						
TP-34	392242	7.71	690772	8.61	622911	11.41
TP-77	381808	7.71	681622	8.61	597468	11.41
TP-74	385627	7.71	688505	8.61	619901	11.41
TP-73	352660	7.70	632034	8.61	567782	11.41
VY0625SBL01	322245	7.71	582244	8.62	555259	11.41
VY0625SBS01	433589	7.71	722109	8.61	625216	11.41
VY0625SBSD01	424898	7.71	717544	8.61	607296	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413
 Lab File ID: VY022811.D Date Analyzed: 06/25/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:13
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	316858	13.34				
UPPER LIMIT	633716	13.84				
LOWER LIMIT	158429	12.84				
EPA SAMPLE NO.						
TP-34	266014	13.34				
TP-77	245461	13.34				
TP-74	261665	13.34				
TP-73	243559	13.34				
VY0625SBL01	248657	13.35				
VY0625SBS01	303331	13.35				
VY0625SBSD01	290027	13.34				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413
Lab File ID: VY022838.D Date Analyzed: 06/26/2025
Instrument ID: MSVOA_Y Time Analyzed: 10:07
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	469939	7.71	769006	8.62	661912	11.41
UPPER LIMIT	939878	8.207	1538010	9.116	1323820	11.914
LOWER LIMIT	234970	7.207	384503	8.116	330956	10.914
EPA SAMPLE NO.						
TP-35	306589	7.71	584214	8.62	574106	11.41
TP-72	313811	7.71	566645	8.62	546225	11.41
VY0626SBL01	328943	7.71	604959	8.62	571725	11.41
VY0626SBS01	434636	7.71	740035	8.62	637859	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413
 Lab File ID: VY022838.D Date Analyzed: 06/26/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:07
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	328091	13.347				
UPPER LIMIT	656182	13.847				
LOWER LIMIT	164046	12.847				
EPA SAMPLE NO.						
TP-35	247141	13.35				
TP-72	218308	13.35				
VY0626SBL01	249132	13.35				
VY0626SBS01	302470	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0625SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 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
VY022812.D	1		06/25/25 09:46	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0625SBL01		SDG No.:	Q2413
Lab Sample ID:	VY0625SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	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
VY022812.D	1		06/25/25 09:46	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.2		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		17 - 146	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	322000	7.707			
540-36-3	1,4-Difluorobenzene	582000	8.616			
3114-55-4	Chlorobenzene-d5	555000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	249000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0625SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 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
VY022812.D	1		06/25/25 09:46	VY062525

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:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0626SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 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
VY022839.D	1		06/26/25 10:39	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0626SBL01		SDG No.:	Q2413
Lab Sample ID:	VY0626SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	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
VY022839.D	1		06/26/25 10:39	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		17 - 146	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	329000	7.713			
540-36-3	1,4-Difluorobenzene	605000	8.616			
3114-55-4	Chlorobenzene-d5	572000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	249000	13.347			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0626SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	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
VY022839.D	1		06/26/25 10:39	VY062625

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:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0625SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 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
VY022813.D	1		06/25/25 10:18	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.9		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.1		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.3		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.7		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.3		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.1		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.3		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.2		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.0		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.4		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.4		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.1		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.9		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.2		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0625SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 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
VY022813.D	1		06/25/25 10:18	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.4		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.5		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.2		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.82	5.00	ug/Kg
100-42-5	Styrene	19.6		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.0		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.9		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.3		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.3		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	51.1		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	434000	7.707			
540-36-3	1,4-Difluorobenzene	722000	8.61			
3114-55-4	Chlorobenzene-d5	625000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	303000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0625SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	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
VY022813.D	1		06/25/25 10:18	VY062525

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:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0626SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 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
VY022840.D	1		06/26/25 11:09	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.4		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.2		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.0		0.79	5.00	ug/Kg
74-83-9	Bromomethane	23.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.0		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.5		1.00	5.00	ug/Kg
67-64-1	Acetone	150		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.4		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.1		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	23.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.3		0.79	5.00	ug/Kg
78-93-3	2-Butanone	130		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.3		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.7		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.3		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0626SBS01		SDG No.:	Q2413
Lab Sample ID:	VY0626SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	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
VY022840.D	1		06/26/25 11:09	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	120		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.0		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.9		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.7		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.5		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.7		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.3		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	51.0		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		17 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	435000	7.713			
540-36-3	1,4-Difluorobenzene	740000	8.616			
3114-55-4	Chlorobenzene-d5	638000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	302000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0626SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	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
VY022840.D	1		06/26/25 11:09	VY062625

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:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0625SBSD01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 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
VY022814.D	1		06/25/25 10:40	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.7		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.0		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.0		0.79	5.00	ug/Kg
74-83-9	Bromomethane	23.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.8		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.7		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.4		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.9		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.5		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.4		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.7		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.2		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0625SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 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
VY022814.D	1		06/25/25 10:40	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.1		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.3		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.3		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.2		0.82	5.00	ug/Kg
100-42-5	Styrene	20.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.1		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	22.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.0		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	425000	7.707			
540-36-3	1,4-Difluorobenzene	718000	8.61			
3114-55-4	Chlorobenzene-d5	607000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	290000	13.34			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0625SBSD01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	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
VY022814.D	1		06/25/25 10:40	VY062525

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



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2413</u>
Instrument ID:	<u>MSVOA_Y</u>	SAS No.:	<u>Q2413</u>
Heated Purge: (Y/N)	<u>Y</u>	SDG No.:	<u>Q2413</u>
GC Column:	<u>RXI-624</u>	Calibration Date(s):	<u>06/23/2025</u>
ID:	<u>0.25 (mm)</u>	Calibration Time(s):	<u>13:38</u>
			<u>15:31</u>

LAB FILE ID:	RRF005 = VY022776.D	RRF010 = VY022777.D	RRF020 = VY022778.D	RRF050 = VY022779.D	RRF100 = VY022780.D	RRF150 = VY022781.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.424	0.456	0.474	0.424	0.404	0.384	0.428	7.7
Chloromethane	0.837	0.921	0.865	0.793	0.758	0.724	0.816	8.9
Vinyl Chloride	0.934	1.099	1.091	1.045	0.993	0.958	1.020	6.8
Bromomethane	0.784	0.885	0.854	0.771	0.760	0.756	0.802	6.8
Chloroethane	0.649	0.736	0.722	0.694	0.673	0.640	0.686	5.6
Trichlorofluoromethane	0.999	1.180	1.219	1.166	1.127	1.085	1.129	7
1,1,2-Trichlorotrifluoroethane	0.508	0.560	0.547	0.515	0.492	0.474	0.516	6.3
1,1-Dichloroethene	0.478	0.539	0.524	0.514	0.500	0.483	0.506	4.7
Acetone	0.117	0.124	0.114	0.095	0.096	0.087	0.105	13.9
Carbon Disulfide	1.516	1.705	1.731	1.667	1.625	1.566	1.635	5.1
Methyl tert-butyl Ether	1.173	1.398	1.396	1.435	1.460	1.405	1.378	7.5
Methyl Acetate	0.272	0.358	0.440	0.351	0.353	0.322	0.349	15.7
Methylene Chloride	0.840	0.777	0.664	0.590	0.578	0.548	0.666	17.7
trans-1,2-Dichloroethene	0.521	0.604	0.597	0.592	0.581	0.575	0.578	5.2
1,1-Dichloroethane	0.949	1.075	1.079	1.077	1.055	1.030	1.044	4.8
Cyclohexane	0.998	1.021	0.988	0.946	0.905	0.894	0.959	5.4
2-Butanone	0.145	0.160	0.160	0.153	0.156	0.147	0.154	4.4
Carbon Tetrachloride	0.439	0.498	0.507	0.491	0.492	0.491	0.486	5
cis-1,2-Dichloroethene	0.606	0.689	0.687	0.685	0.687	0.678	0.672	4.8
Bromochloromethane	0.437	0.431	0.437	0.459	0.443	0.427	0.439	2.6
Chloroform	0.986	1.130	1.099	1.096	1.084	1.059	1.076	4.6
1,1,1-Trichloroethane	0.847	0.945	0.973	0.950	0.939	0.923	0.929	4.7
Methylcyclohexane	0.543	0.589	0.610	0.618	0.608	0.611	0.596	4.7
Benzene	1.248	1.433	1.451	1.464	1.467	1.440	1.417	5.9
1,2-Dichloroethane	0.335	0.397	0.402	0.400	0.404	0.392	0.388	6.8
Trichloroethene	0.305	0.364	0.382	0.372	0.360	0.350	0.356	7.6
1,2-Dichloropropane	0.289	0.339	0.345	0.339	0.341	0.337	0.332	6.4
Bromodichloromethane	0.422	0.495	0.496	0.498	0.504	0.498	0.485	6.4
4-Methyl-2-Pentanone	0.168	0.201	0.215	0.226	0.230	0.221	0.210	10.9
Toluene	0.747	0.873	0.908	0.926	0.955	0.954	0.894	8.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG No.: Q2413

Instrument ID: MSVOA_Y Calibration Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY022776.D		RRF010 = VY022777.D		RRF020 = VY022778.D		
		RRF050 = VY022779.D		RRF100 = VY022780.D		RRF150 = VY022781.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.355	0.430	0.438	0.451	0.473	0.473	0.437	10
cis-1,3-Dichloropropene	0.412	0.503	0.523	0.524	0.540	0.538	0.506	9.6
1,1,2-Trichloroethane	0.207	0.249	0.249	0.253	0.255	0.250	0.244	7.4
2-Hexanone	0.115	0.140	0.145	0.151	0.157	0.149	0.143	10.5
Dibromochloromethane	0.260	0.315	0.321	0.329	0.336	0.329	0.315	8.8
1,2-Dibromoethane	0.193	0.231	0.229	0.237	0.244	0.236	0.228	7.8
Tetrachloroethene	0.399	0.465	0.535	0.515	0.473	0.446	0.472	10.3
Chlorobenzene	0.981	1.110	1.131	1.126	1.130	1.114	1.099	5.3
Ethyl Benzene	1.644	1.881	1.971	2.029	2.040	2.018	1.930	7.9
m/p-Xylenes	0.624	0.722	0.759	0.782	0.800	0.791	0.746	8.8
o-Xylene	0.578	0.674	0.708	0.734	0.759	0.765	0.703	10
Styrene	0.926	1.108	1.165	1.249	1.309	1.309	1.178	12.5
Bromoform	0.178	0.204	0.203	0.212	0.225	0.220	0.207	8
Isopropylbenzene	3.354	3.764	3.823	3.778	3.709	3.759	3.698	4.7
1,1,2,2-Tetrachloroethane	0.597	0.659	0.566	0.567	0.594	0.593	0.596	5.6
1,3-Dichlorobenzene	1.546	1.660	1.692	1.708	1.750	1.744	1.683	4.5
1,4-Dichlorobenzene	1.564	1.740	1.688	1.685	1.690	1.666	1.672	3.5
1,2-Dichlorobenzene	1.395	1.488	1.502	1.499	1.515	1.502	1.483	3
1,2-Dibromo-3-Chloropropane	0.102	0.101	0.103	0.103	0.102	0.096	0.101	2.7
1,2,4-Trichlorobenzene	0.778	0.841	0.848	0.843	0.871	0.845	0.838	3.7
1,2,3-Trichlorobenzene	0.679	0.723	0.735	0.728	0.751	0.727	0.724	3.3
1,2-Dichloroethane-d4	0.568	0.550	0.557	0.559	0.571	0.545	0.558	1.8
Dibromofluoromethane	0.306	0.297	0.295	0.304	0.314	0.308	0.304	2.3
Toluene-d8	1.182	1.148	1.186	1.215	1.262	1.247	1.207	3.6
4-Bromofluorobenzene	0.368	0.362	0.370	0.385	0.423	0.421	0.388	7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG No.: Q2413

Instrument ID: MSVOA_Y Calibration Date/Time: 06/25/2025 09:13

Lab File ID: VY022811.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.402		-6.07	20
Chloromethane	0.816	0.678	0.1	-16.91	20
Vinyl Chloride	1.020	0.942		-7.65	20
Bromomethane	0.802	0.717		-10.6	20
Chloroethane	0.686	0.643		-6.27	20
Trichlorofluoromethane	1.129	1.068		-5.4	20
1,1,2-Trichlorotrifluoroethane	0.516	0.503		-2.52	20
1,1-Dichloroethene	0.506	0.494		-2.37	20
Acetone	0.105	0.114		8.57	20
Carbon Disulfide	1.635	1.577		-3.55	20
Methyl tert-butyl Ether	1.378	1.304		-5.37	20
Methyl Acetate	0.349	0.282		-19.2	20
Methylene Chloride	0.666	0.569		-14.56	20
trans-1,2-Dichloroethene	0.578	0.554		-4.15	20
1,1-Dichloroethane	1.044	1.002	0.1	-4.02	20
Cyclohexane	0.959	0.895		-6.67	20
2-Butanone	0.154	0.145		-5.84	20
Carbon Tetrachloride	0.486	0.494		1.65	20
cis-1,2-Dichloroethene	0.672	0.648		-3.57	20
Bromochloromethane	0.439	0.409		-6.83	20
Chloroform	1.076	1.022		-4.93	20
1,1,1-Trichloroethane	0.929	0.916		-1.4	20
Methylcyclohexane	0.596	0.609		2.18	20
Benzene	1.417	1.415		-0.14	20
1,2-Dichloroethane	0.388	0.380		-2.06	20
Trichloroethene	0.356	0.364		2.25	20
1,2-Dichloropropane	0.332	0.331		-0.3	20
Bromodichloromethane	0.485	0.481		-0.82	20
4-Methyl-2-Pentanone	0.210	0.201		-4.29	20
Toluene	0.894	0.909		1.68	20
t-1,3-Dichloropropene	0.437	0.438		0.23	20
cis-1,3-Dichloropropene	0.506	0.513		1.38	20
1,1,2-Trichloroethane	0.244	0.236		-3.28	20
2-Hexanone	0.143	0.141		-1.4	20
Dibromochloromethane	0.315	0.312		-0.95	20
1,2-Dibromoethane	0.228	0.223		-2.19	20
Tetrachloroethene	0.472	0.499		5.72	20
Chlorobenzene	1.099	1.104	0.3	0.46	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG No.: Q2413

Instrument ID: MSVOA_Y Calibration Date/Time: 06/25/2025 09:13

Lab File ID: VY022811.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	1.981		2.64	20
m/p-Xylenes	0.746	0.775		3.89	20
o-Xylene	0.703	0.725		3.13	20
Styrene	1.178	1.218		3.4	20
Bromoform	0.207	0.199	0.1	-3.87	20
Isopropylbenzene	3.698	3.805		2.89	20
1,1,2,2-Tetrachloroethane	0.596	0.530	0.3	-11.07	20
1,3-Dichlorobenzene	1.683	1.693		0.59	20
1,4-Dichlorobenzene	1.672	1.661		-0.66	20
1,2-Dichlorobenzene	1.483	1.460		-1.55	20
1,2-Dibromo-3-Chloropropane	0.101	0.095		-5.94	20
1,2,4-Trichlorobenzene	0.838	0.820		-2.15	20
1,2,3-Trichlorobenzene	0.724	0.698		-3.59	20
1,2-Dichloroethane-d4	0.558	0.536		-3.94	20
Dibromofluoromethane	0.304	0.309		1.64	20
Toluene-d8	1.207	1.256		4.06	20
4-Bromofluorobenzene	0.388	0.398		2.58	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG No.: Q2413

Instrument ID: MSVOA_Y Calibration Date/Time: 06/26/2025 10:07

Lab File ID: VY022838.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.440		2.8	20
Chloromethane	0.816	0.752	0.1	-7.84	20
Vinyl Chloride	1.020	0.980		-3.92	20
Bromomethane	0.802	0.762		-4.99	20
Chloroethane	0.686	0.667		-2.77	20
Trichlorofluoromethane	1.129	1.082		-4.16	20
1,1,2-Trichlorotrifluoroethane	0.516	0.546		5.81	20
1,1-Dichloroethene	0.506	0.545		7.71	20
Acetone	0.105	0.131		24.76	20
Carbon Disulfide	1.635	1.715		4.89	20
Methyl tert-butyl Ether	1.378	1.465		6.31	20
Methyl Acetate	0.349	0.323		-7.45	20
Methylene Chloride	0.666	0.634		-4.8	20
trans-1,2-Dichloroethene	0.578	0.608		5.19	20
1,1-Dichloroethane	1.044	1.094	0.1	4.79	20
Cyclohexane	0.959	1.000		4.28	20
2-Butanone	0.154	0.172		11.69	20
Carbon Tetrachloride	0.486	0.541		11.32	20
cis-1,2-Dichloroethene	0.672	0.699		4.02	20
Bromochloromethane	0.439	0.426		-2.96	20
Chloroform	1.076	1.110		3.26	20
1,1,1-Trichloroethane	0.929	0.993		6.89	20
Methylcyclohexane	0.596	0.679		13.93	20
Benzene	1.417	1.540		8.68	20
1,2-Dichloroethane	0.388	0.410		5.67	20
Trichloroethene	0.356	0.385		8.15	20
1,2-Dichloropropane	0.332	0.357		7.53	20
Bromodichloromethane	0.485	0.522		7.63	20
4-Methyl-2-Pentanone	0.210	0.232		10.48	20
Toluene	0.894	0.997		11.52	20
t-1,3-Dichloropropene	0.437	0.479		9.61	20
cis-1,3-Dichloropropene	0.506	0.554		9.49	20
1,1,2-Trichloroethane	0.244	0.262		7.38	20
2-Hexanone	0.143	0.165		15.39	20
Dibromochloromethane	0.315	0.338		7.3	20
1,2-Dibromoethane	0.228	0.245		7.46	20
Tetrachloroethene	0.472	0.516		9.32	20
Chlorobenzene	1.099	1.206	0.3	9.74	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG No.: Q2413

Instrument ID: MSVOA_Y Calibration Date/Time: 06/26/2025 10:07

Lab File ID: VY022838.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.192		13.57	20
m/p-Xylenes	0.746	0.854		14.48	20
o-Xylene	0.703	0.798		13.51	20
Styrene	1.178	1.349		14.52	20
Bromoform	0.207	0.220	0.1	6.28	20
Isopropylbenzene	3.698	4.255		15.06	20
1,1,2,2-Tetrachloroethane	0.596	0.638	0.3	7.05	20
1,3-Dichlorobenzene	1.683	1.856		10.28	20
1,4-Dichlorobenzene	1.672	1.815		8.55	20
1,2-Dichlorobenzene	1.483	1.605		8.23	20
1,2-Dibromo-3-Chloropropane	0.101	0.101		0	20
1,2,4-Trichlorobenzene	0.838	0.856		2.15	20
1,2,3-Trichlorobenzene	0.724	0.712		-1.66	20
1,2-Dichloroethane-d4	0.558	0.541		-3.05	20
Dibromofluoromethane	0.304	0.302		-0.66	20
Toluene-d8	1.207	1.223		1.33	20
4-Bromofluorobenzene	0.388	0.390		0.51	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.