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

LAB CHRONICLE

OrderID:	Q2529	**OrderDate:**	7/8/2025 3:36:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	**TP-91**	**SOIL**			**07/03/25**			**07/08/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-02	**TP-80**	**SOIL**			**07/07/25**			**07/08/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-03	**TP-79**	**SOIL**			**07/07/25**			**07/08/25**
			Gasoline Range Organics	8015D			07/11/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-04	**TP-95**	**SOIL**			**07/07/25**			**07/08/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-05	**TP-98**	**SOIL**			**07/07/25**			**07/08/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-06	**TP-102**	**SOIL**			**07/07/25**			**07/08/25**
			Gasoline Range Organics	8015D			07/11/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-07	**TP-101**	**SOIL**			**07/07/25**			**07/08/25**
			Gasoline Range Organics	8015D			07/10/25	

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LAB CHRONICLE

			PCB	8082A		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25
Q2529-08	**TP-89**	**SOIL**			**07/08/25**		**07/08/25**
			Gasoline Range Organics	8015D		07/11/25	
			PCB	8082A		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25
Q2529-09	**TP-33**	**SOIL**			**07/08/25**		**07/08/25**
			Gasoline Range Organics	8015D		07/11/25	
			PCB	8082A		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25
Q2529-10	**TP-30**	**SOIL**			**07/08/25**		**07/08/25**
			Gasoline Range Organics	8015D		07/10/25	
			PCB	8082A		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.9 Decanted:
Sample Wt/Vol:	4.11 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032074.D	1	07/10/25 17:20	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	U	11.0	60.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.8		50 - 150	89%	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.7 Decanted:
Sample Wt/Vol:	5.25 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032075.D	1	07/10/25 17:48	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	47.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.6		50 - 150	83%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.6 Decanted:
Sample Wt/Vol:	5.25 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032090.D	1	07/11/25 11:50	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	47.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.0		50 - 150	85%	SPK: 20

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	83.7 Decanted:
Sample Wt/Vol:	5.25 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032077.D	1	07/10/25 18:43	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	51.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.3		50 - 150	71%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.9 Decanted:
Sample Wt/Vol:	6.5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032078.D	1	07/10/25 19:10	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	7.00	U	7.00	40.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.4		50 - 150	82%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	95.6 Decanted:
Sample Wt/Vol:	4.87 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032094.D	50	07/11/25 13:40	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	444	U	444	2420	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	21.1		50 - 150	105%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	89.7 Decanted:
Sample Wt/Vol:	4.72 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032080.D	1	07/10/25 20:05	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	10.0	U	10.0	53.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.6		50 - 150	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.1 Decanted:
Sample Wt/Vol:	4.87 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032095.D	50	07/11/25 14:08	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	471	U	471	2560	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	21.7		50 - 150	109%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.5 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032093.D	1	07/11/25 13:13	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	50.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	24.2		50 - 150	121%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	91.4 Decanted:
Sample Wt/Vol:	5.18 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032083.D	1	07/10/25 21:28	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	48.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.6		50 - 150	83%	SPK: 20

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QC SUMMARY

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SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2529

CLIENT ID	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF0710S1	92				0
BSF0710S1	101				0
BSF0710S2	96				0
TP-91	89				0
TP-80	83				0
TP-95	71				0
TP-98	82				0
TP-101	88				0
TP-30	83				0
VBF0711S1	93				0
VBF0711S2	68				0
BSF0711S1	96				0
TP-79	85				0
TP-33	121				0
TP-102	105				0
TP-89	109				0

	QC LIMITS
AAA-TFT	For Water : 50-150 For Soil : 50-150

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2529

Client Sample ID : BSF0710S1 **Datafile:** FB032062.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	155	86	50-150

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICAT

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2529

Client Sample ID : BSF0710S2 **Datafile:** FB032070.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	155	86	50-150

LCS/LCSD % Recovery RPD : 0

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICAT

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2529

Client Sample ID : BSF0711S1 **Datafile:** FB032089.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	150	83	50-150

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METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0710S1

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Lab File ID: FB032060.D Lab Sample ID: VBF0710S1

Date Analyzed: 07/10/25 Time Analyzed: 9:50

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0710S1	BSF0710S1	FB032062.D	07/10/25
BSF0710S2	BSF0710S2	FB032070.D	07/10/25
TP-91	Q2529-01	FB032074.D	07/10/25
TP-80	Q2529-02	FB032075.D	07/10/25
TP-95	Q2529-04	FB032077.D	07/10/25
TP-98	Q2529-05	FB032078.D	07/10/25
TP-101	Q2529-07	FB032080.D	07/10/25
TP-30	Q2529-10	FB032083.D	07/10/25

COMMENTS:

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METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0711S1

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Lab File ID: FB032087.D Lab Sample ID: VBF0711S1

Date Analyzed: 07/11/25 Time Analyzed: 10:11

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0711S1	BSF0711S1	FB032089.D	07/11/25
TP-79	Q2529-03	FB032090.D	07/11/25
TP-33	Q2529-09	FB032093.D	07/11/25

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0711S2

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Lab File ID: FB032088.D Lab Sample ID: VBF0711S2

Date Analyzed: 07/11/25 Time Analyzed: 10:39

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP-102	Q2529-06	FB032094.D	07/11/25
TP-89	Q2529-08	FB032095.D	07/11/25

COMMENTS:

QC SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0710S1	SDG No.:	Q2529
Lab Sample ID:	VBF0710S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032060.D	1	07/10/25 9:50	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.4		50 - 150	92%	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0711S1	SDG No.:	Q2529
Lab Sample ID:	VBF0711S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032087.D	1	07/11/25 10:11	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.7		50 - 150	93%	SPK: 20

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* = 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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0711S2	SDG No.:	Q2529
Lab Sample ID:	VBF0711S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032088.D	50	07/11/25 10:39	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	413	U	413	2250	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	13.7		50 - 150	68%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0710S1	SDG No.:	Q2529
Lab Sample ID:	BSF0710S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032062.D	1	07/10/25 10:45	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	155		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.2		50 - 150	101%	SPK: 20

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0711S1	SDG No.:	Q2529
Lab Sample ID:	BSF0711S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032089.D	1	07/11/25 11:06	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	150		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.3		50 - 150	96%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0710S2	SDG No.:	Q2529
Lab Sample ID:	BSF0710S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032070.D	1	07/10/25 14:54	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	155		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.2		50 - 150	96%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
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CALIBRATION SUMMARY

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GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2529

Calibration Sequence : FB062325		Test : Gasoline Range Organics	
Concentration (PPB)	**Area Count**	**Reference Factor**	**File ID**
45	1490557	33123	FB031909.D
90	2566530	28517	FB031910.D
180	5166210	28701	FB031911.D
450	12609856	28022	FB031912.D
900	27368301	30409	FB031913.D
AVG RF : 29754	**% RSD : 7.013**		**AVG RT : 8.798**

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FB032059.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4467208	24818	29754	16.589

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FB032071.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4595160	25529	29754	14.2

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FB032085.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4594906	25527	29754	14.206

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FB032086.D Analyst Name: YP/AJ Analyst Date: 07-11-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4417424	24541	29754	17.52

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FB032097.D Analyst Name: YP/AJ Analyst Date: 07-11-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4631728	25732	29754	13.518

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2529

Project: South River WM Replacement **Instrument ID:** FID_B

GC Column: RTX-502.2 **ID:** 0.53 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **8.798**

CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 9:08	FB032059.D	8.796	
VBF0710S1	VBF0710S1	10 Jul 2025 9:50	FB032060.D	8.797	
BSF0710S1	BSF0710S1	10 Jul 2025 10:45	FB032062.D	8.798	
BSF0710S2	BSF0710S2	10 Jul 2025 14:54	FB032070.D	8.799	
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 15:22	FB032071.D	8.800	
TP-91	Q2529-01	10 Jul 2025 17:20	FB032074.D	8.801	
TP-80	Q2529-02	10 Jul 2025 17:48	FB032075.D	8.802	
TP-95	Q2529-04	10 Jul 2025 18:43	FB032077.D	8.801	
TP-98	Q2529-05	10 Jul 2025 19:10	FB032078.D	8.801	
TP-101	Q2529-07	10 Jul 2025 20:05	FB032080.D	8.801	
TP-30	Q2529-10	10 Jul 2025 21:28	FB032083.D	8.800	
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 23:17	FB032085.D	8.799	
20 PPB GRO STD	20 PPB GRO STD	11 Jul 2025 9:30	FB032086.D	8.794	
VBF0711S1	VBF0711S1	11 Jul 2025 10:11	FB032087.D	8.797	
VBF0711S2	VBF0711S2	11 Jul 2025 10:39	FB032088.D	8.797	
BSF0711S1	BSF0711S1	11 Jul 2025 11:06	FB032089.D	8.798	
TP-79	Q2529-03	11 Jul 2025 11:50	FB032090.D	8.797	
TP-33	Q2529-09	11 Jul 2025 13:13	FB032093.D	8.798	
TP-102	Q2529-06	11 Jul 2025 13:40	FB032094.D	8.799	
TP-89	Q2529-08	11 Jul 2025 14:08	FB032095.D	8.797	
20 PPB GRO STD	20 PPB GRO STD	11 Jul 2025 15:03	FB032097.D	8.801	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	8.698	8.898