

LAB CHRONICLE

OrderID: Client: Contact:	Q2413 CDM Smith Marcie Ann Encinas			OrderDate: Project: Location:	6/24/2025 3:05 South River WN D41,VOA Ref. #	A Replacement		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2413-01	TP-35	SOIL	Gasoline Range Organics	8015D	06/24/25		06/26/25	06/24/25
Q2413-02	2 TP-34	SOIL	Gasoline Range Organics	8015D	06/24/25		06/26/25	06/24/25
Q2413-03	5 TP-77	SOIL	Gasoline Range Organics	8015D	06/24/25		06/26/25	06/24/25
Q2413-04	TP-74	SOIL	Gasoline Range Organics	8015D	06/24/25		06/26/25	06/24/25
Q2413-05	5 TP-73	SOIL	Gasoline Range Organics	8015D	06/24/25		06/26/25	06/24/25
Q2413-06	5 TP-72	SOIL	Gasoline Range Organics	8015D	06/24/25		06/26/25	06/24/25









	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-35				SDG No.:	Q2413						
Lab Sample ID:	Q2413-01				Matrix:	SOIL						
Analytical Method	8015D GRO				% Solid:	88.8 Dec	canted:					
Sample Wt/Vol:	4 Units	: g			Final Vol:	5	mL					
Soil Aliquot Vol:		uL			Test:	Gasoline Range O	rganics					
Extraction Type:					Injection Volume :							
GPC Factor :		PH :										
Prep Method :												
File ID/Qc Batch:	Dilution:				Date Analyzed	Prep Bate	h ID					
FB031935.D	1				06/26/25 12:51	FB062625	;					
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)					
TARGETS GRO	GRO	13.0	J	12.0		63.0	ug/kg					
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Trif	luoroto 16.0		50 - 150		80%	SPK: 20					

Comments:

U = Not Detected

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E = Value Exceeds Calibration Range

P = Indicates > 25% difference for detected

concentrations between the two GC columns

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- D = Dilution

 $\mathbf{S}=\mathbf{Indicates}$ estimated value where valid five-point calibration

was not performed prior to analyte detection in sample.



		Re	port of An	alysis			
Client:	CDM Smith				Date Collected:	06/24/25	
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	8015D GRO				% Solid:	92 Dec	canted:
Sample Wt/Vol:	4.6 Units	: g			Final Vol:	5	mL
Soil Aliquot Vol:		uL			Test:	Gasoline Range O	rganics
Extraction Type:					Injection Volume :		
GPC Factor :		PH :					
Prep Method :							
File ID/Qc Batch:	Dilution:				Date Analyzed	Prep Batcl	h ID
FB031936.D	1				06/26/25 13:36	FB062625	;
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-Trif	luoroto 11.1		50 - 150		55%	SPK: 20

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		Re	port of An	alysis			
Client:	CDM Smith				Date Collected:	06/24/25	
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	8015D GRO				% Solid:	91.4 Dec	canted:
Sample Wt/Vol:	5 Units:	g			Final Vol:	5	mL
Soil Aliquot Vol:		uL			Test:	Gasoline Range O	rganics
Extraction Type:					Injection Volume :		
GPC Factor :		PH :					
Prep Method :							
File ID/Qc Batch:	Dilution:				Date Analyzed	Prep Batcl	h ID
FB031937.D	1				06/26/25 14:04	FB062625	;
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	9.00	U	9.00		49.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Trifl	uoroto 11.1		50 - 150		55%	SPK: 20

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- () = Laboratory InHouse Limit



		Re	port of An	alysis			
Client:	CDM Smith				Date Collected:	06/24/25	
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	8015D GRO				% Solid:	89.5 Dec	canted:
Sample Wt/Vol:	4.2 Units:	g			Final Vol:	5	mL
Soil Aliquot Vol:		uL			Test:	Gasoline Range O	rganics
Extraction Type:					Injection Volume :		
GPC Factor :		PH :					
Prep Method :							
File ID/Qc Batch:	Dilution:				Date Analyzed	Prep Batcl	ı ID
FB031938.D	1				06/26/25 14:31	FB062625	
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-Trifl	uoroto 12.8		50 - 150		64%	SPK: 20

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		Re	port of An	alysis			
Client:	CDM Smith				Date Collected:	06/24/25	
Project:	South River WM R	eplacement			Date Received:	06/24/25	
Client Sample ID:	TP-73				SDG No.:	Q2413	
Lab Sample ID:	Q2413-05				Matrix:	SOIL	
Analytical Method	8015D GRO				% Solid:	77.1 Dec	canted:
Sample Wt/Vol:	5 Units:	g			Final Vol:	5	mL
Soil Aliquot Vol:		uL			Test:	Gasoline Range O	rganics
Extraction Type:					Injection Volume :		
GPC Factor :		PH :					
Prep Method :							
File ID/Qc Batch:	Dilution:				Date Analyzed	Prep Batcl	h ID
FB031941.D	50				06/26/25 16:09	FB062625	;
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	536	U	536		2920	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Triflu	oroto 15.6		50 - 150		78%	SPK: 20

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		Re	port of An	alysis			
Client:	CDM Smith				Date Collected:	06/24/25	
Project:	South River WM R	eplacement			Date Received:	06/24/25	
Client Sample ID:	TP-72				SDG No.:	Q2413	
Lab Sample ID:	Q2413-06				Matrix:	SOIL	
Analytical Method	8015D GRO				% Solid:	87 Dec	canted:
Sample Wt/Vol:	5.1 Units:	g			Final Vol:	5	mL
Soil Aliquot Vol:		uL			Test:	Gasoline Range O	rganics
Extraction Type:					Injection Volume :		
GPC Factor :		PH :					
Prep Method :							
File ID/Qc Batch:	Dilution:				Date Analyzed	Prep Batel	h ID
FB031942.D	50				06/26/25 16:36	FB062625	
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	2210	J	465		2540	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Triflu	proto 15.5		50 - 150		78%	SPK: 20

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A B C D E F



SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name:	Chemtech			Client:	CDM Smith		
Lab Code:	CHEM	Case No.:	<u>Q2413</u>	SAS No.:	Q2413	SDG No.: Q24	13
	PA		S1	S2	S3	S4	ТОТ
SAMPI	LE NO.		AAA-TFT				OUT
VBF0626S1			77				0
VBF0626S2			80				0
BSF0626S1			81				0
TP-35			80				0
TP-34			55				0
TP-77			55				0
TP-74			64				0
BSF0626S2			83				0
TP-73			78				0
TP-72			78				0

QC LIMITS

For Water : 50-150 For Soil : 50-150

AAA-TFT

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted Out



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

Lab Name:	Chemtech			Client:	CDM Smith		
Lab Code:	CHEM	Cas No:	Q2413	SAS No :	Q2413	SDG No:	Q2413
Matrix Spike - H	EPA Sample No :	BSF0626S1		Datafile:	FB031934.D		

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	160	89	50-150



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

Lab Name:	Chemtech			Client:	CDM Smith		
Lab Code:	CHEM	Cas No:	Q2413	SAS No :	Q2413	SDG No:	Q2413
Matrix Spike - H	EPA Sample No :	BSF0626S2		Datafile:	FB031939.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 : 3.2



METHOD BLANK SUMMARY

	EPA SAMPLE NO.
	VBF0626S1
Lab Name: CHEMTECH	Contract: CAMP02
Lab Code: CHEM Case No.: Q2413	SAS No.: <u>Q2413</u> SDG NO.: <u>Q2413</u>
Lab File ID: FB031932.D	Lab Sample ID: VBF0626S1
Date Analyzed: 06/26/25	Time Analyzed: 11:15
GC Column: <u>RTX-502.2</u> ID: <u>0.53</u> (mm)	Heated Purge: (Y/N) Y
Instrument ID: FB	

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

EPA	LAB	LAB	DATE
SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
BSF0626S1	BSF0626S1	FB031934.D	06/26/25
TP-35	Q2413-01	FB031935.D	06/26/25
TP-34	Q2413-02	FB031936.D	06/26/25
TP-77	Q2413-03	FB031937.D	06/26/25
TP-74	Q2413-04	FB031938.D	06/26/25
BSF0626S2	BSF0626S2	FB031939.D	06/26/25



METHOD BLANK SUMMARY

				_	EP.	A SAMPLE NO.	
					VBF06	2652	
Lab Name:	CHEMTECH			Contract:	CAMP0:	2	
Lab Code:	CHEM	Case No.:	Q2413	SAS No.:	Q2413	SDG NO.:	Q2413
Lab File ID	: FB031933.D			Lab Sample	a ID:	VBF0626S2	
Date Analyz	ed: 06/26/25			Time Analy	yzed:	11:43	
GC Column:	RTX-502.2	ID: 0.53	(mm)	Heated Pur	rge: (Y/	'N) <u>Y</u>	

Instrument ID: FB

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

EPA	LAB	LAB	DATE
SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
TP-73	Q2413-05	FB031941.D	06/26/25
TP-72	Q2413-06	FB031942.D	06/26/25





<u>QC SAMPLE</u> <u>DATA</u>



	Report of Analysis							
Client:	CDM Smith					Date Collected:		
Project:	South River WM	M Replacem	nent			Date Received:		
Client Sample ID:	VBF0626S1					SDG No.:	Q2413	
Lab Sample ID:	VBF0626S1					Matrix:	SOIL	
Analytical Method	8015D GRO					% Solid:	100 Dec	canted:
Sample Wt/Vol:	5 Unit	ts: g				Final Vol:	5	mL
Soil Aliquot Vol:		uL				Test:	Gasoline Range O	rganics
Extraction Type:						Injection Volume :		
GPC Factor :		PH :						
Prep Method :								
File ID/Qc Batch:	Dilution:					Date Analyzed	Prep Bate	h ID
FB031932.D	1					06/26/25 11:15	FB062625	5
CAS Number	Parameter	C	onc. Q	ualifier	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-Tri	fluoroto 1:	5.4		50 - 150		77%	SPK: 20

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			Report	of Ana	lysis				
Client:	CDM Smith					Date Collected:			
Project:	South River WI	M Replacem	nent			Date Received:			
Client Sample ID:	VBF0626S2					SDG No.:	Q2413		
Lab Sample ID:	VBF0626S2					Matrix:	SOIL		
Analytical Method	8015D GRO					% Solid:	100	Dec	anted:
Sample Wt/Vol:	5 Uni	its: g				Final Vol:	5	r	nL
Soil Aliquot Vol:		uL				Test:	Gasoline R	ange Or	ganics
Extraction Type:						Injection Volume :			
GPC Factor :		PH :							
Prep Method :									
File ID/Qc Batch:	Dilution:				Ι	Date Analyzed	Pre	p Batch	ID
FB031933.D	50				0	06/26/25 11:43	FB	062625	
CAS Number	Parameter	Co	onc. Q	ualifier I	MDL		LOQ / O	CRQL	Units(Dry Weight)
TARGETS GRO	GRO	41	13 U	2	413			2250	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Tri	ifluoroto 15	5.9	4	50 - 150			80%	SPK: 20

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			Report of A	nalysis			
Client:	CDM Smith				Date Collected:		
Project:	South River W	M Replacem	nent		Date Received:		
Client Sample ID:	BSF0626S1				SDG No.:	Q2413	
Lab Sample ID:	BSF0626S1				Matrix:	SOIL	
Analytical Method	8015D GRO				% Solid:	100 I	Decanted:
Sample Wt/Vol:	5 Un	nits: 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 Ba	atch ID
FB031934.D	1				06/26/25 12:10	FB0626	525
CAS Number	Parameter	C	onc. Qualifie	er MDL		LOQ / CRQ	L Units(Dry Weight)
TARGETS GRO	GRO	16	50	8.00		45.	0 ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Ti	rifluoroto 16	5.3	50 - 150		819	% SPK: 20

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			Repo	ort of An	alysis				
Client:	CDM Smith					Date Collected:			
Project:	South River V	VM Replacen	nent			Date Received:			
Client Sample ID:	BSF0626S2					SDG No.:	Q2413		
Lab Sample ID:	BSF0626S2					Matrix:	SOIL		
Analytical Method	8015D GRO					% Solid:	100	Dec	anted:
Sample Wt/Vol:	5 U	nits: g				Final Vol:	5	1	nL
Soil Aliquot Vol:		uL				Test:	Gasoline F	Range Or	ganics
Extraction Type:						Injection Volume :			
GPC Factor :		PH :							
Prep Method :									
File ID/Qc Batch:	Dilution:					Date Analyzed	Pr	ep Batch	ID
FB031939.D	1					06/26/25 14:59	FI	3062625	
CAS Number	Parameter	С	onc.	Qualifier	MDL		LOQ /	CRQL	Units(Dry Weight)
TARGETS GRO	GRO	1.	55		8.00			45.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-T	Trifluoroto 1	6.6		50 - 150			83%	SPK: 20

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<u>CALIBRATION</u> <u>SUMMARY</u>



GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name:	Chemtech			Contract:	CAMP02		
ProjectID:	South River WM R	eplacement					
Lab Code:	CHEM	Case No.:	Q2413	SAS No.:	Q2413	SDG No.:	Q2413

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	% R	SD : 7.013	AVG RT : 8.798		



GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name:	Chemtech Contra				CAMP02		
ProjectID:	South River WM Repl	acement					
Lab Code:	СНЕМ	Case No.:	Q2413	SAS No.:	Q2413	SDG No.: Q2413	
DataFile:	FB031931.D		Analyst Name:	YP/AJ	Analy	st Date: 06-26-2025	_

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4762065	26456	29754	11.084



GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name:	Chemtech			Contract:	CAMP02		
ProjectID:	South River WM Replacement						
Lab Code:	CHEM	Case No.:	Q2413	SAS No.:	Q2413	SDG No.:	Q2413
DataFile:	FB031940.D		Analyst Name:	YP/AJ	Analyst Date: 06-26-2025		25

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4613127	25628	29754	13.867



F

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name:	Chemtech			Contract:	CAMP02		
ProjectID:	South River WM Replacement						
Lab Code:	CHEM	Case No.:	Q2413	SAS No.:	Q2413	SDG No.:	Q2413
DataFile:	FB031944.D		Analyst Name:	YP/AJ	Analyst Date: 06-26-2025		025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4646618	25815	29754	13.239



Analytical Sequence

Client: CDM Smith Project: South River WM Replacement			SDG No.: Q2413	
Project: South River WM Replacement			Instrument ID: FID_B	
GC Colum	m: 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								
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#			
20 PPB GRO STD	20 PPB GRO STD	26 Jun 2025 10:31	FB031931.D	8.792				
VBF0626S1	VBF0626S1	26 Jun 2025 11:15	FB031932.D	8.796				
VBF0626S2	VBF0626S2	26 Jun 2025 11:43	FB031933.D	8.797				
BSF0626S1	BSF0626S1	26 Jun 2025 12:10	FB031934.D	8.797				
TP-35	Q2413-01	26 Jun 2025 12:51	FB031935.D	8.796				
TP-34	Q2413-02	26 Jun 2025 13:36	FB031936.D	8.796				
TP-77	Q2413-03	26 Jun 2025 14:04	FB031937.D	8.796				
TP-74	Q2413-04	26 Jun 2025 14:31	FB031938.D	8.798				
BSF0626S2	BSF0626S2	26 Jun 2025 14:59	FB031939.D	8.799				
20 PPB GRO STD	20 PPB GRO STD	26 Jun 2025 15:26	FB031940.D	8.799				
TP-73	Q2413-05	26 Jun 2025 16:09	FB031941.D	8.797				
TP-72	Q2413-06	26 Jun 2025 16:36	FB031942.D	8.797				
20 PPB GRO STD	20 PPB GRO STD	26 Jun 2025 17:32	FB031944.D	8.798				

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