

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 15, 2022

Elizabeth Wilson

CGRS Inc.

1301 Academy Ct.

Fort Collins, CO 80524

RE: Western Operating 909J

Work Order #2207140

Enclosed are the results of analyses for samples received by Summit Scientific on 07/12/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



CGRS Inc.
1301 Academy Ct.
Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WO_Ambrose Cunningham 42-25_313870	2207140-01	Water	07/11/22 08:15	07/12/22 16:00
WO_Ambrose Cunningham 42-25_313870	2207140-02	Water	08/31/22 06:15	07/12/22 16:00

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S₂

2207140

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Client: CGRS, Inc.

Project Manager: Elizabeth Wilson

Address: 1301 Academy Court

E-Mail: ewilson@cgrs.com; dkinnaird@cgrs.com

City/State/Zip: Fort Collins, CO 80523

lgazier@cgrs.com


Phone: 970-493-7780

Project Name: WESTERN OPERATING 909J

Sampler Name:

Project Number: 241040

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	COGCC 909.J								
1	WO_Ambrose Cunningham 42-25_313870	8/16/20							X					X							
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
			7/22/22 1000	Same Day ___ 72 hours ___ 24 hours ___ Standard <u>X</u> 48 hours ___	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 36	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Intact: <u>Yes</u> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2207140

Client: CGRS Client Project ID: Western Operating 909J

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

-

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		-		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.


Custodian Printed Name

7/12/22
Date/Time



CGRS Inc.
1301 Academy Ct.
Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

WO_Ambrose Cunningham 42-25_313870
2207140-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/11/22 08:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	1800	10		ug/l	10	BFG0221	07/13/22	07/14/22	EPA 8260B	
Toluene	2200	10		"	"	"	"	"	"	
Ethylbenzene	140	1.0		"	1	"	"	07/14/22	"	
m,p-Xylene	870	20		"	10	"	"	07/14/22	"	
o-Xylene	450	10		"	"	"	"	"	"	
Xylenes (total)	1300	20		"	"	"	"	"	"	
Naphthalene	130			"	1	"	"	07/14/22	"	
Gasoline Range Hydrocarbons	9400	500		"	"	"	"	"	"	

Date Sampled: **07/11/22 08:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		126 %		23-173		"	"	07/14/22	"	
Surrogate: Toluene-d8		99.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		21-167		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		53.0 %		23-173		"	"	07/14/22	"	
Surrogate: Toluene-d8		87.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %		21-167		"	"	"	"	

Total Metals by EPA Method 200.8

Date Sampled: **07/11/22 08:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Phosphorus	342	10.0		ug/l	1	BFG0244	07/14/22	07/14/22	EPA 200.8	
Strontium	3570	1.00		"	"	"	"	"	"	
Barium	345	1.00		"	"	"	"	"	"	
Boron	3840	10.0		"	"	"	"	"	"	
Calcium	12900	50.0		"	"	"	"	"	"	
Iron	19440	10.00		"	"	"	"	"	"	
Manganese	145	1.00		"	"	"	"	"	"	
Magnesium	7170	50.0		"	"	"	"	"	"	
Selenium	1.40	1.00		"	"	"	"	"	"	
Potassium	17900	50.0		"	"	"	"	"	"	

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CGRS Inc.
 1301 Academy Ct.
 Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
 Project Manager: Elizabeth Wilson

Reported:
 09/15/22 13:21

WO_Ambrose Cunningham 42-25_313870
2207140-01 (Water)

Summit Scientific

Total Metals by EPA Method 200.8

Sodium	3740000	50.0	ug/l	1	BFG0244	07/14/22	07/14/22	EPA 200.8
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Anions by EPA Method 300.0

Date Sampled: **07/11/22 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromide	ND	0.200	mg/L	1	BFG0218	07/12/22	07/13/22	EPA 300.0	
Chloride	3500	30.0	"	500	"	"	"	"	
Fluoride	7.80	0.800	"	20	"	"	"	"	
Nitrate as N	13.8	0.0500	"	1	"	"	"	"	
Nitrite as N	ND	0.0600	"	"	"	"	"	"	
Sulfate	18.1	0.300	"	"	"	"	"	"	

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WO_Ambrose Cunningham 42-25_313870
2207140-02 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/31/22 06:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	4.40	0.100	mg/L	1	BF10150	09/07/22	09/09/22	EPA 8015M	
C28-C36 (ORO)	0.186	0.100	"	"	"	"	"	"	

Date Sampled: **08/31/22 06:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		214 %	44.8-129	"	"	"	"	"	S-02

Alkalinity by SM2320

Date Sampled: **08/31/22 06:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	970	10.0	mg/L as CaCO3	1	BF10137	09/07/22	09/07/22	SM2320-B	
Carbonate	ND	10.0	"	"	"	"	"	"	
Bicarbonate	970	10.0	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	10.0	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/31/22 06:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Suspended Solids	186	5.00	mg/L	1	BF10077	09/05/22	09/13/22	SM2540D	

Specific Conductance by SM2510B

Date Sampled: **08/31/22 06:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	16100	1.00	umhos/cm	1	BF10310	09/08/22	09/13/22	SM2510B	

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 09/15/22 13:21

WO_Ambrose Cunningham 42-25_313870
2207140-02 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **08/31/22 06:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	10100	10.0	mg/L	1	BFI0056	09/02/22	09/06/22	SM2540C	

pH by SM4500

Date Sampled: **08/31/22 06:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.87	1.00	pH Units	1	BFI0051	08/31/22	09/07/22	SM4500-H+ B	

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Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFG0221 - EPA 5030 Water MS

Blank (BFG0221-BLK1)

Prepared: 07/13/22 Analyzed: 07/14/22

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
m,p-Xylene	ND	2.0	"								
o-Xylene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	0.00		"								
Gasoline Range Hydrocarbons	ND	500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	19.9		"	13.3		149		23-173			
<i>Surrogate: Toluene-d8</i>	12.9		"	13.3		97.1		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	13.3		103		21-167			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	19.9		"	13.3		149		23-173			
<i>Surrogate: Toluene-d8</i>	12.9		"	13.3		97.1		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	13.3		103		21-167			

LCS (BFG0221-BS1)

Prepared: 07/13/22 Analyzed: 07/14/22

Benzene	27.0	1.0	ug/l	33.3		81.0		51-132			
Toluene	26.7	1.0	"	33.3		80.0		51-138			
Ethylbenzene	26.9	1.0	"	33.3		80.6		58-146			
m,p-Xylene	55.4	2.0	"	66.7		83.0		57-144			
o-Xylene	26.0	1.0	"	33.3		78.1		53-146			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.0		"	13.3		150		23-173			
<i>Surrogate: Toluene-d8</i>	13.1		"	13.3		98.6		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	13.3		103		21-167			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.0		"	13.3		150		23-173			
<i>Surrogate: Toluene-d8</i>	13.1		"	13.3		98.6		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	13.3		103		21-167			

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Project Number: 24640
Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFG0221 - EPA 5030 Water MS

Matrix Spike (BFG0221-MS1)

Source: 2207160-01

Prepared: 07/13/22 Analyzed: 07/14/22

Benzene	27.1	1.0	ug/l	33.3	ND	81.4	34-141			
Toluene	27.0	1.0	"	33.3	ND	81.0	27-151			
Ethylbenzene	27.2	1.0	"	33.3	ND	81.5	29-160			
m,p-Xylene	56.9	2.0	"	66.7	ND	85.3	20-166			
o-Xylene	26.6	1.0	"	33.3	ND	79.8	33-159			
Surrogate: 1,2-Dichloroethane-d4	16.4		"	13.3		123	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.6	20-170			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	21-167			
Surrogate: 1,2-Dichloroethane-d4	16.4		"	13.3		123	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.6	20-170			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	21-167			

Matrix Spike Dup (BFG0221-MSD1)

Source: 2207160-01

Prepared: 07/13/22 Analyzed: 07/14/22

Benzene	27.2	1.0	ug/l	33.3	ND	81.8	34-141	0.404	32	
Toluene	27.2	1.0	"	33.3	ND	81.7	27-151	0.812	25	
Ethylbenzene	27.7	1.0	"	33.3	ND	83.2	29-160	2.00	50	
m,p-Xylene	57.7	2.0	"	66.7	ND	86.5	20-166	1.47	36	
o-Xylene	26.9	1.0	"	33.3	ND	80.8	33-159	1.16	26	
Surrogate: 1,2-Dichloroethane-d4	16.0		"	13.3		120	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			
Surrogate: 1,2-Dichloroethane-d4	16.0		"	13.3		120	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

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Project: Western Operating 909J
Project Number: 24640
Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFI0150 - EPA 5030 Water GC

Blank (BFI0150-BLK1)

Prepared: 09/07/22 Analyzed: 09/09/22

C10-C28 (DRO)	ND	0.100	mg/L								
C28-C36 (ORO)	ND	0.100	"								
Surrogate: <i>o</i> -Terphenyl	0.0236		"	0.0250	94.4	44.8-129					

LCS (BFI0150-BS1)

Prepared: 09/07/22 Analyzed: 09/09/22

C10-C28 (DRO)	0.816	0.100	mg/L	1.00	81.6	70-130					
Surrogate: <i>o</i> -Terphenyl	0.0238		"	0.0250	95.2	44.8-129					

LCS Dup (BFI0150-BSD1)

Prepared: 09/07/22 Analyzed: 09/09/22

C10-C28 (DRO)	0.764	0.100	mg/L	1.00	76.4	70-130	6.63	200			
Surrogate: <i>o</i> -Terphenyl	0.0194		"	0.0250	77.8	44.8-129					

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Total Metals by EPA Method 200.8 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFG0244 - EPA 200.8

Blank (BFG0244-BLK1)

Prepared & Analyzed: 07/14/22

Phosphorus	ND	10.0	ug/l
Strontium	ND	1.00	"
Barium	ND	1.00	"
Boron	ND	10.0	"
Calcium	ND	50.0	"
Iron	ND	10.00	"
Manganese	ND	1.00	"
Magnesium	ND	50.0	"
Selenium	ND	1.00	"
Potassium	ND	50.0	"
Sodium	ND	50.0	"

LCS (BFG0244-BS1)

Prepared & Analyzed: 07/14/22

Phosphorus	5190	10.0	ug/l	5000	104	85-115
Strontium	510	1.00	"	500	102	85-115
Barium	518	1.00	"	500	104	85-115
Boron	2580	10.0	"	2500	103	85-115
Calcium	5550	50.0	"	5000	111	85-115
Iron	4908	10.00	"	5000	98.2	85-115
Magnesium	5440	50.0	"	5000	109	85-115
Manganese	500	1.00	"	500	100	85-115
Potassium	5220	50.0	"	5000	104	85-115
Selenium	45.3	1.00	"	50.0	90.5	85-115
Sodium	5350	50.0	"	5000	107	85-115

Duplicate (BFG0244-DUP1)

Source: 2207115-01

Prepared & Analyzed: 07/14/22

Phosphorus	ND	10.0	ug/l	5.31	200	20	QR-01
Strontium	3700	1.00	"	3810	2.89	20	
Barium	68.9	1.00	"	71.3	3.39	20	
Boron	397	10.0	"	413	3.93	20	
Calcium	169000	50.0	"	172000	1.57	20	
Iron	1646	10.00	"	1632	0.810	20	
Manganese	37.2	1.00	"	39.1	4.91	20	
Magnesium	74200	50.0	"	75200	1.40	20	
Selenium	35.8	1.00	"	37.2	3.91	20	
Potassium	6410	50.0	"	6480	1.07	20	
Sodium	297000	50.0	"	303000	1.95	20	

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09/15/22 13:21

Total Metals by EPA Method 200.8 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BFG0244 - EPA 200.8

Matrix Spike (BFG0244-MS1)

Source: 2207115-01

Prepared & Analyzed: 07/14/22

Phosphorus	4860	10.0	ug/l	5000	5.31	97.1	70-130				
Strontium	4240	1.00	"	500	3810	86.8	70-130				
Barium	590	1.00	"	500	71.3	104	70-130				
Boron	2580	10.0	"	2500	413	86.5	70-130				
Calcium	169000	50.0	"	5000	172000	NR	70-130				QM-02
Iron	6586	10.00	"	5000	1632	99.1	70-130				
Manganese	552	1.00	"	500	39.1	103	70-130				
Magnesium	75900	50.0	"	5000	75200	13.3	70-130				QM-02
Selenium	88.0	1.00	"	50.0	37.2	102	70-130				
Potassium	11300	50.0	"	5000	6480	96.0	70-130				
Sodium	293000	50.0	"	5000	303000	NR	70-130				QM-02

Matrix Spike Dup (BFG0244-MSD1)

Source: 2207115-01

Prepared & Analyzed: 07/14/22

Phosphorus	4910	10.0	ug/l	5000	5.31	98.1	70-130	0.948	25		
Strontium	4250	1.00	"	500	3810	89.1	70-130	0.271	25		
Barium	590	1.00	"	500	71.3	104	70-130	0.0681	25		
Boron	2590	10.0	"	2500	413	87.0	70-130	0.476	25		
Calcium	171000	50.0	"	5000	172000	NR	70-130	0.884	25		QM-02
Iron	6691	10.00	"	5000	1632	101	70-130	1.58	25		
Manganese	552	1.00	"	500	39.1	103	70-130	0.0265	25		
Magnesium	76900	50.0	"	5000	75200	32.5	70-130	1.26	25		QM-02
Selenium	84.5	1.00	"	50.0	37.2	94.5	70-130	4.13	25		
Potassium	11200	50.0	"	5000	6480	94.5	70-130	0.687	25		
Sodium	299000	50.0	"	5000	303000	NR	70-130	1.99	25		QM-02

Summit Scientific

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CGRS Inc.
1301 Academy Ct.
Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BFG0218 - General Preparation

Blank (BFG0218-BLK1)

Prepared: 07/12/22 Analyzed: 07/13/22

Bromide	ND	0.200	mg/L							
Chloride	ND	0.0600	"							
Fluoride	ND	0.0400	"							
Nitrate as N	ND	0.0500	"							
Nitrite as N	ND	0.0600	"							
Sulfate	ND	0.300	"							

LCS (BFG0218-BS1)

Prepared: 07/12/22 Analyzed: 07/13/22

Bromide	10.2	0.200	mg/L	10.0	102	90-110				
Chloride	3.00	0.0600	"	3.00	99.9	90-110				
Fluoride	2.06	0.0400	"	2.00	103	90-110				
Nitrate as N	2.83	0.0500	"	3.00	94.3	90-110				
Nitrite as N	2.83	0.0600	"	3.00	94.4	90-110				
Sulfate	14.8	0.300	"	15.0	98.6	90-110				

Duplicate (BFG0218-DUP1)

Source: 2207149-01

Prepared: 07/12/22 Analyzed: 07/13/22

Bromide	ND	40.0	mg/L	ND				20		
Chloride	43.4	12.0	"	43.4			0.00	20		
Fluoride	12.2	8.00	"	11.0			10.3	20		
Nitrate as N	ND	10.0	"	ND				20		
Nitrite as N	5.00	12.0	"	4.40			12.8	20		
Sulfate	450	60.0	"	364			21.2	20		QM-02

Matrix Spike (BFG0218-MS1)

Source: 2207149-01

Prepared: 07/12/22 Analyzed: 07/13/22

Bromide	2050	40.0	mg/L	2000	ND	103	80-120			
Chloride	635	12.0	"	600	43.4	98.6	80-120			
Fluoride	382	8.00	"	400	11.0	92.8	80-120			
Nitrate as N	534	10.0	"	600	ND	89.1	80-120			
Nitrite as N	497	12.0	"	600	4.40	82.1	80-120			
Sulfate	3590	60.0	"	3000	364	107	80-120			

Summit Scientific

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CGRS Inc.
1301 Academy Ct.
Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

Alkalinity by SM2320 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFI0137 - General Preparation

Blank (BFI0137-BLK1)

Prepared & Analyzed: 09/07/22

Total Alkalinity	ND	10.0	mg/L as CaCO3							
Carbonate	ND	10.0	"							
Bicarbonate	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							

LCS (BFI0137-BS1)

Prepared & Analyzed: 09/07/22

Total Alkalinity	100	10.0	mg/L as CaCO3	100		100	80-120			
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Duplicate (BFI0137-DUP1)

Source: 2207078-02

Prepared & Analyzed: 09/07/22

Total Alkalinity	1370	10.0	mg/L as CaCO3		1360			0.733	20	
Carbonate	ND	10.0	"		ND				20	
Bicarbonate	1370	10.0	"		1360			0.733	20	
Hydroxide Alkalinity	ND	10.0	"		ND				20	

Matrix Spike (BFI0137-MS1)

Source: 2207078-02

Prepared & Analyzed: 09/07/22

Total Alkalinity	1490	10.0	mg/L as CaCO3	100	1360	130	80-120			QM-05
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Matrix Spike Dup (BFI0137-MSD1)

Source: 2207078-02

Prepared & Analyzed: 09/07/22

Total Alkalinity	1510	10.0	mg/L as CaCO3	100	1360	150	80-120	1.33	20	QM-05
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Summit Scientific

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CGRS Inc.
 1301 Academy Ct.
 Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
 Project Manager: Elizabeth Wilson

Reported:
 09/15/22 13:21

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BFI0077 - General Preparation

Blank (BFI0077-BLK1)

Prepared & Analyzed: 09/05/22

Total Suspended Solids ND 5.00 mg/L

Duplicate (BFI0077-DUP1)

Source: 2208472-01

Prepared & Analyzed: 09/05/22

Total Suspended Solids 200 5.00 mg/L 239 17.8 20

Summit Scientific

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CGRS Inc.
1301 Academy Ct.
Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

Specific Conductance by SM2510B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BFI0310 - General Preparation

Duplicate (BFI0310-DUP1)	Source: 2207078-02			Prepared: 09/08/22 Analyzed: 09/13/22	
Specific Conductance (EC)	5120	1.00	umhos/cm	5100	0.489 20

Summit Scientific

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CGRS Inc.
1301 Academy Ct.
Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFI0056 - General Preparation

Blank (BFI0056-BLK1)

Prepared: 09/02/22 Analyzed: 09/06/22

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BFI0056-DUP1)

Source: 2208446-01

Prepared: 09/02/22 Analyzed: 09/06/22

Total Dissolved Solids 2340 10.0 mg/L 2340 0.00 20

Summit Scientific

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CGRS Inc.
 1301 Academy Ct.
 Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
 Project Manager: Elizabeth Wilson

Reported:
 09/15/22 13:21

pH by SM4500 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFI0051 - General Preparation

LCS (BFI0051-BS1)

Prepared: 09/01/22 Analyzed: 09/02/22

pH	8.92	1.00	pH Units	9.18	97.2	90-110
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Duplicate (BFI0051-DUP1)

Source: 2209025-01

Prepared: 09/01/22 Analyzed: 09/02/22

pH	7.06	1.00	pH Units	7.06	0.00	20
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Summit Scientific

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CGRS Inc.
1301 Academy Ct.
Fort Collins CO, 80524

Project: Western Operating 909J

Project Number: 24640
Project Manager: Elizabeth Wilson

Reported:
09/15/22 13:21

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- QM-02 The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference