Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 21, 2022

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

RE: Schneider 909J
Work Order #2207138

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: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SE_Coordes_101978	2207138-01	Water	07/11/22 09:57	07/12/22 16:00
SE_Coordes_101978	2207138-02	Water	08/31/22 08:30	07/12/22 16:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

S_2

2207138

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

Client: **CGRS, Inc.**
Address: **1301 Academy Court**
City/State/Zip: **Fort Collins, CO 80523**
Phone: **970-493-7780**
Sampler Name:

Project Manager: **Elizabeth Wilson**
E-Mail: **ewilson@cgrs.com; dkinnaird@cgrs.com**
lgazier@cgrs.com
Project Name: Schneider 909J
Project Number: 24648

					Preservative				Matrix				Analysis Requested									Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	COGCC 909J									
1	SE_Coordes_101978	7/11/22	9:57	11					X				X									
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: Mitchell Bond Date/Time: 7/11/22 - 1926
Received by: Date/Time: 71222 1600

Relinquished by: Date/Time:
Received by: Date/Time:

Relinquished by: Date/Time:
Received by: Date/Time:

Turn Around Time (Check)
Same Day ___ 72 hours ___
24 hours ___ Standard X 48
hours ___

Sample Integrity:
Temperature Upon Receipt: 3.6
Samples Intact: (Yes) No

Notes:

S2

Sample Receipt Checklist

S2 Work Order# 2207138

Client: CGRS Client Project ID: Schneider 909J

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

	-			

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

Temp (°C) [3.6] Thermometer # [1]

	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_2SO_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.

[signature] 7122C

Custodian Printed Name **Date/Time**

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

SE_Coordes_101978

2207138-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/11/22 09:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**5900**	100	ug/l	100	BFG0220	07/13/22	07/14/22	EPA 8260B	
Toluene	**7600**	100	"	"	"	"	"	"	
Ethylbenzene	**650**	100	"	"	"	"	"	"	
m,p-Xylene	**2700**	200	"	"	"	"	"	"	
o-Xylene	**1300**	100	"	"	"	"	"	"	
Xylenes (total)	**3900**	200	"	"	"	"	"	"	
Naphthalene	**200**		"	1	"	"	07/14/22	"	
Gasoline Range Hydrocarbons	**20000**	500	"	"	"	"	"	"	

Date Sampled: **07/11/22 09:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*21-167*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*64.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*84.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.8 %*	*21-167*		"	"	"	"	

Total Metals by EPA Method 200.8

Date Sampled: **07/11/22 09:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Phosphorus	ND	10.0	ug/l	1	BFG0244	07/14/22	07/14/22	EPA 200.8	
Strontium	**8280**	1.00	"	"	"	"	"	"	
Barium	**1150**	1.00	"	"	"	"	"	"	
Boron	**4110**	10.0	"	"	"	"	"	"	
Calcium	**40100**	50.0	"	"	"	"	"	"	
Iron	**1042**	10.00	"	"	"	"	"	"	
Manganese	**111**	1.00	"	"	"	"	"	"	
Magnesium	**10900**	50.0	"	"	"	"	"	"	
Selenium	ND	1.00	"	"	"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

SE_Coordes_101978

2207138-01 (Water)

Summit Scientific

Total Metals by EPA Method 200.8

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Potassium	**24800**	50.0	ug/l	1	BFG0244	07/14/22	07/14/22	EPA 200.8
Sodium	**5250000**	50.0	"	"	"	"	"	"

Anions by EPA Method 300.0

Date Sampled: **07/11/22 09:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromide	**0.216**	0.200	mg/L	1	BFG0218	07/12/22	07/13/22	EPA 300.0	
Chloride	**5610**	30.0	"	500	"	"	"	"	
Fluoride	**0.141**	0.0400	"	1	"	"	"	"	
Nitrate as N	ND	0.0500	"	"	"	"	"	"	
Nitrite as N	ND	0.0600	"	"	"	"	"	"	
Sulfate	ND	0.300	"	"	"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

SE_Coordes_101978

2207138-02 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/31/22 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**21.5**	0.100	mg/L	1	BFI0150	09/07/22	09/09/22	EPA 8015M	
C28-C36 (ORO)	**3.13**	0.100	"	"	"	"	"	"	

Date Sampled: **08/31/22 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*688 %*	*44.8-129*		"	"	"	"	*S-02*

Alkalinity by SM2320

Date Sampled: **08/31/22 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	**11.4**	10.0	mg/L as CaCO3	1	BFI0137	09/07/22	09/07/22	SM2320-B	
Carbonate	ND	10.0	"	"	"	"	"	"	
Bicarbonate	**11.4**	10.0	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	10.0	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/31/22 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Suspended Solids	**9.00**	5.00	mg/L	1	BFI0077	09/05/22	09/13/22	SM2540D	

Specific Conductance by SM2510B

Date Sampled: **08/31/22 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**21400**	1.00	umhos/cm	1	BFI0310	09/08/22	09/13/22	SM2510B	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

SE_Coordes_101978

2207138-02 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **08/31/22 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**16600**	10.0	mg/L	1	BFI0056	09/02/22	09/06/22	SM2540C	

pH by SM4500

Date Sampled: **08/31/22 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.27**	1.00	pH Units	1	BFI0051	08/31/22	09/07/22	SM4500-H+ B	

S2

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFG0220 - EPA 5030 Water MS										
Blank (BFG0220-BLK1)				Prepared & Analyzed: 07/13/22						
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	"							
Surrogate: 1,2-Dichloroethane-d4	*13.2*		*"*	*13.3*		*98.7*	*23-173*			
Surrogate: Toluene-d8	*13.2*		*"*	*13.3*		*99.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.0*		*"*	*13.3*		*97.4*	*21-167*			
Surrogate: 1,2-Dichloroethane-d4	*13.2*		*"*	*13.3*		*98.7*	*23-173*			
Surrogate: Toluene-d8	*13.2*		*"*	*13.3*		*99.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.0*		*"*	*13.3*		*97.4*	*21-167*			
LCS (BFG0220-BS1)				Prepared & Analyzed: 07/13/22						
Benzene	24.6	1.0	ug/l	33.3		74.0	51-132			
Toluene	31.4	1.0	"	33.3		94.3	51-138			
Ethylbenzene	38.9	1.0	"	33.3		117	58-146			
m,p-Xylene	77.0	2.0	"	66.7		116	57-144			
o-Xylene	40.1	1.0	"	33.3		120	53-146			
Surrogate: 1,2-Dichloroethane-d4	*13.5*		*"*	*13.3*		*101*	*23-173*			
Surrogate: Toluene-d8	*13.2*		*"*	*13.3*		*98.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.4*		*"*	*13.3*		*93.2*	*21-167*			
Surrogate: 1,2-Dichloroethane-d4	*13.5*		*"*	*13.3*		*101*	*23-173*			
Surrogate: Toluene-d8	*13.2*		*"*	*13.3*		*98.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.4*		*"*	*13.3*		*93.2*	*21-167*			

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFG0220 - EPA 5030 Water MS										
Matrix Spike (BFG0220-MS1)	**Source: 2207124-01**			Prepared & Analyzed: 07/13/22						
Benzene	24.4	1.0	ug/l	33.3	ND	73.1	34-141			
Toluene	31.4	1.0	"	33.3	ND	94.2	27-151			
Ethylbenzene	40.7	1.0	"	33.3	ND	122	29-160			
m,p-Xylene	81.5	2.0	"	66.7	ND	122	20-166			
o-Xylene	40.9	1.0	"	33.3	ND	123	33-159			
Surrogate: 1,2-Dichloroethane-d4	*14.0*		"	*13.3*		*105*	*23-173*			
Surrogate: Toluene-d8	*13.2*		"	*13.3*		*98.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.2*		"	*13.3*		*99.2*	*21-167*			
Surrogate: 1,2-Dichloroethane-d4	*14.0*		"	*13.3*		*105*	*23-173*			
Surrogate: Toluene-d8	*13.2*		"	*13.3*		*98.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.2*		"	*13.3*		*99.2*	*21-167*			
Matrix Spike Dup (BFG0220-MSD1)	**Source: 2207124-01**			Prepared & Analyzed: 07/13/22						
Benzene	21.6	1.0	ug/l	33.3	ND	64.8	34-141	12.0	32	
Toluene	31.6	1.0	"	33.3	ND	94.7	27-151	0.572	25	
Ethylbenzene	37.4	1.0	"	33.3	ND	112	29-160	8.42	50	
m,p-Xylene	76.3	2.0	"	66.7	ND	115	20-166	6.55	36	
o-Xylene	38.9	1.0	"	33.3	ND	117	33-159	4.99	26	
Surrogate: 1,2-Dichloroethane-d4	*8.18*		"	*13.3*		*61.4*	*23-173*			
Surrogate: Toluene-d8	*13.6*		"	*13.3*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.8*		"	*13.3*		*95.8*	*21-167*			
Surrogate: 1,2-Dichloroethane-d4	*8.18*		"	*13.3*		*61.4*	*23-173*			
Surrogate: Toluene-d8	*13.6*		"	*13.3*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.8*		"	*13.3*		*95.8*	*21-167*			

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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: o-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: o-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: o-Terphenyl	*0.0194*		*"*	*0.0250*		*77.8*	*44.8-129*			

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

Total Metals by EPA Method 200.8 - Quality Control

Summit Scientific

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

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

Total Metals by EPA Method 200.8 - Quality Control

Summit Scientific

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

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

Alkalinity by SM2320 - Quality Control

Summit Scientific

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

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

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

Summit Scientific

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

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

Specific Conductance by SM2510B - Quality Control

Summit Scientific

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

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

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

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

pH by SM4500 - Quality Control

Summit Scientific

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

August 29, 2022

Report to:
Paul Shrewsbury
Summit Scientific
4653 Table Mountain Drive
Suite B
Golden, CO 80401

Bill to:
Ben Shrewsbury
Summit Scientific
4653 Table Mountain Drive
Suite B
Golden, CO 80401

cc: Michelle Clements, Ben Shrewsbury

Project ID:
ACZ Project ID: L74997

Paul Shrewsbury:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 14, 2022. This project has been assigned to ACZ's project number, L74997. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L74997. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 28, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Summit Scientific
Project ID:
Sample ID: SE_COORDES_101978
Locator:

ACZ Sample ID: ***L74997-01***
Date Sampled: *07/11/22 9:57*
Date Received: *07/14/22*
Sample Matrix: *Waste Water*

Radium 226 + Alpha Emitting Radium Isotopes, total — Prep Method:
M903.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226 + Alpha	08/24/22 0:02		24	1.4	0.65	pCi/L	*	ajp

Radium 228, total — Prep Method:
M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	08/25/22 15:09		21	1.5	1.8	pCi/L	*	msm

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	*PBS*	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

(1)	Solid matrices are reported on a dry weight basis.
(2)	Preparation method: "Method" indicates preparation defined in analytical method.
(3)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Radiochemistry QC Summary

SUMSCI

ACZ Project ID: ***L74997***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Radium 226 + Alpha Emitting Radium M903.0 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG548943																
WG548943PBW	PBW	08/24/22						.08	0.13	0.71			1.42			
WG548943LCSW	LCSW	08/24/22	PCN65743	20				17	1.3	0.74	85	66	132			
L75000-01DUP	DUP-RPD	08/24/22			0.65	0.27	0.76	.86	0.35	0.94				28	20	RG
L75000-01DUP	DUP-RER	08/24/22			0.65	0.27	0.76	.86	0.35	0.94				0.47	2	
L75002-02MS	MS	08/24/22	PCN65743	20	0.18	0.17	0.74	18	1.3	0.71	89	66	132			
L75005-01DUP	DUP-RPD	08/24/22			0.56	0.31	1	.19	0.23	1.1				99	20	RG
L75005-01DUP	DUP-RER	08/24/22			0.56	0.31	1	.19	0.23	1.1				0.96	2	

Radium 228, total M904.0 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG548496																
WG548496LCSW	LCSW	08/25/22	PCN64684	9.01				9.9	1.2	0.87	110	47	123			
WG548496PBW	PBW	08/25/22						-.2	0.37	0.4			0.8			
L74562-01DUP	DUP-RPD	08/25/22			1.1	0.88	2.1	-.21	0.83	2				294	20	RG
L74562-01DUP	DUP-RER	08/25/22			1.1	0.88	2.1	-.21	0.83	2				1.08	2	
L74562-06MS	MS	08/25/22	PCN64684	9.01	0.19	0.81	2.1	11	1.3	2.1	120	47	123			
L74569-05DUP	DUP-RPD	08/25/22			2.2	0.95	2.1	2.8	0.89	1.9				24	20	RG
L74569-05DUP	DUP-RER	08/25/22			2.2	0.95	2.1	2.8	0.89	1.9				0.46	2	

Summit Scientific

ACZ Project ID: ***L74997***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L74997-01	WG548943	Radium 226 + Alpha Emitting Radium Isotopes, total	M903.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG548496	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Certification Qualifiers

Summit Scientific

ACZ Project ID: ***L74997***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Summit Scientific

ACZ Project ID: L74997
Date Received: 07/14/2022 16:58
Received By:
Date Printed: 8/5/2022

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA37981	4.1	NA	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Summit Scientific

ACZ Project ID:	L74997
Date Received:	07/14/2022 16:58
Received By:	
Date Printed:	8/5/2022

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L74997

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name: Paul Shrewsbury	Address: 4653 Table Mountain Drive
Company: Summit Scientific	Golden, CO 80403
E-mail: pshrewsbury@s2scientific.com	Telephone: 303-277-9310

Copy of Report to:

Name: Ben Shrewsbury	E-mail: bshrewsbury@s2scientific.com
Company: Summit Scientific	Telephone: 303-277-9310

Invoice to:

Name: Ben Shrewsbury	Address: 4653 Table Mountain Drive
Company: Summit Scientific	Golden, CO 80403
E-mail: bshrewsbury@s2scientific.com	Telephone: 303-277-9310

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ☐ NO ☐

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes ☐ No ☒

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: ____________ **Sampler's Site Information** **State**__________ **Zip code**________ **Time Zone**________

***Sampler's Signature:** ________________

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION — ANALYSES REQUESTED (attach list or use quote number)

Quote #: Project Name: 2207138

PO#:

Reporting state for compliance testing:

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Radium 226	Radium 228						
SE_Coordes_101978	7/11/22 9:57	WW	6	☒	☒	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Service Center

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	7/13 22	[signature]	7/13/22 12:45
		[signature]	7/14/22 16:58

FRMAD050.06.14.14 White - Return with sample. Yellow - Retain for your records.

L74997 Chain of Custod

CGRS Inc. 1301 Academy Ct. Fort Collins CO, 80524	Project: Schneider 909J Project Number: 24648 Project Manager: Elizabeth Wilson	**Reported:** 09/21/22 11:10

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