REVIEWED

By Mike Buchanan at 2:16 pm, Sep 12, 2023

Gallegos Canyon Unit 170 NCS1621656998 30-045-07658 2022 Monitoring Report

Review of the Gallegos Canyon Unit 170 2022 Monitoring Report: **Content Satisfactory** 1. Continue to groundwater monitor as prescribed by NMOCD 2. Submit the 2023 Annual Report on or before April 1, 2024.

Cottonwood Consulting, LLC MONITOR WELL DEVELOPMENT &/ OR SAMPLING DATA

CLIENT : SIMCOE LLC

GCU # 170	C 25 TOON	D4014/		LABORATOF	ia .	GAL			
UNIT K, SE	C. 35, T29N	, R12VV	6/	3/22				EM /	KS
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV. (ft)	ELEV. (ft)	WATER (ft)	DEPTH (ft)	TIME		(umhos)	(celcius)	PURGED (gal.)
			······						
2A	99.57	-	8.16	14.80	1525	7.27	1530	16.8	3.25
ЗA	97.46	-	7.38	15.88	1535	7.50	1740	16.1	4.17
4A	99.08	-	8.23	15.98	1515	7.39	1040	16.1	3.80
5	96.05	-	6.92	19.30	1545	7.47	1680	16.9	6.07
6	101.53	-	9.35	15.98	1520	7.41	900	15.4	3.25
7	99.97	-	3.79	18.78	1530	7.44	1810	15.9	4.90
8	97.69	-	8.28	18.08	1540	7.50	1950	15.2	4.80
9	100.28	~	10.81	18.43	1510	7.21	1010	17.1	3.73

NOTES: Volume of water purged from well prior to sampling; $V = pi x r^2 x h x 7.48 \text{ gal./ft}^3 x 3$ (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gal./ft. of water.

Comments or note well diameter if not standard 2".

	im	jation	occuring	in adi	jacent.	fields
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2A= brown fint, no odor, no sheen .	3A= grey fint, no odor nosheen
4A= brown tint, no odor in a sheen	5- dear, no odor, no sheen
6= brown tinting odor, no sheen	7 = hownish orange no eder no cheen
8= brown tint no odof dark brown no more Monitor well tops surveyed on 04/20/2017, benchmark used	ieen g = grey tint, no odor, no sheen
Monitor well tops surveyed on 04/20/2017, benchmark used	for elevations near GCU 002 P&A marker.
MW #2A, #3A, #4A, #5, & #6 casing tops completed with locking	
MW #7, #8, & #9 casing tops completed with slip caps & above-g	grade well protectors with padlocked lids.

8.23

on-site	11:00 AM	temp	76 F	
off-site	2:00 PM	temp	87 F	
sky cond.		Sunny		
wind speed	0.5	direct.	E-W	

5-10

NW 355

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75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

21 June 2022

Kyle Siesser Cottonwood Consulting PO Box 1653 Durango, CO 81302 RE: Anions, ICP Metals,Wet Chem

Enclosed are the results of analyses for samples received by the laboratory on 06/08/22 17:00. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

Brenes Kampf

Brenna Kampf Project Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-14

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2A	2206099-01	Water	06/08/22 15:25	06/08/22 17:00	
MW #3A	2206099-02	Water	06/08/22 15:35	06/08/22 17:00	
MW #4A	2206099-03	Water	06/08/22 15:15	06/08/22 17:00	
MW #5	2206099-04	Water	06/08/22 15:45	06/08/22 17:00	
MW #6	2206099-05	Water	06/08/22 15:20	06/08/22 17:00	
MW #7	2206099-06	Water	06/08/22 15:30	06/08/22 17:00	
MW #8	2206099-07	Water	06/08/22 15:40	06/08/22 17:00	
MW #9	2206099-08	Water	06/08/22 15:10	06/08/22 17:00	

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

MW #2A

2206099-01 (Ground Water)									
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	455	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Total as CaCO3*	455	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Bromide	0.348	0.200	0.0548	mg/L	2	06/14/22 00:03	EPA300.0		AES
Chloride*	30.4	2.00	0.111	mg/L	2	06/14/22 00:03	EPA300.0		AES
Conductivity*	1600	1.00		umho/cm @ 25.0°C	1	06/09/22 14:25	2510 B		VJW
Fluoride*	0.402	0.200	0.0194	mg/L	2	06/14/22 00:03	EPA300.0		AES
Nitrate as N*	0.130	0.020	0.007	mg/L	1	06/09/22 13:58	EPA300.0		AES
Nitrate+Nitrite as N by IC	0.130	0.0400	0.0110	mg/L	1	06/09/22 13:58	EPA300.0		AES
Nitrite as N*	< 0.020	0.020	0.004	mg/L	1	06/09/22 13:58	EPA300.0		AES
Ortho-Phosphate as P	< 0.0500	0.0500	0.0104	mg/L	1	06/09/22 13:58	EPA300.0		AES
pH*	6.99			pH Units	1	06/09/22 14:25	EPA150.1		VJW
pH Temperature, degrees C	22.4			pH Units	1	06/09/22 14:25	EPA150.1		VJW
Total Dissolved Solids*	1170	10.0		mg/L	1	06/09/22 16:30	EPA160.1		VJW
Sulfate*	366	20.0	2.48	mg/L	20	06/14/22 22:17	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7)									
Calcium*	226	0.100	0.038	mg/L	1	06/14/22 14:58	EPA200.7		AES
Magnesium*	27.0	0.100	0.030	mg/L	1	06/14/22 14:58	EPA200.7		AES
Potassium*	2.15	1.00	0.178	mg/L	1	06/14/22 14:58	EPA200.7		AES
Sodium*	103	1.00	0.076	mg/L	1	06/14/22 14:58	EPA200.7		AES

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

MW #3A

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
lkalinity, Bicarbonate as CaCO3*	300	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
lkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
lkalinity, Total as CaCO3*	300	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
romide	< 0.200	0.200	0.0548	mg/L	2	06/14/22 01:01	EPA300.0		AES
'hloride*	14.3	2.00	0.111	mg/L	2	06/14/22 01:01	EPA300.0		AES
conductivity*	1860	1.00		umho/cm @ 25.0°C	1	06/09/22 14:25	2510 B		VJW
luoride*	0.412	0.200	0.0194	mg/L	2	06/14/22 01:01	EPA300.0		AES
litrate as N*	0.403	0.040	0.014	mg/L	2	06/09/22 14:17	EPA300.0		AES
litrate+Nitrite as N by IC	0.403	0.0800	0.0219	mg/L	2	06/09/22 14:17	EPA300.0		AES
litrite as N*	< 0.040	0.040	0.008	mg/L	2	06/09/22 14:17	EPA300.0		AES
Ortho-Phosphate as P	< 0.100	0.100	0.0209	mg/L	2	06/09/22 14:17	EPA300.0		AES
H*	7.09			pH Units	1	06/09/22 14:25	EPA150.1		VJW
H Temperature, degrees C	22.2			pH Units	1	06/09/22 14:25	EPA150.1		VJW
otal Dissolved Solids*	1530	10.0		mg/L	1	06/09/22 16:30	EPA160.1		VJW
ulfate*	779	20.0	2.48	mg/L	20	06/14/22 22:36	EPA300.0		AES
otal Recoverable Metals by ICP (E200.7))								
alcium*	324	0.100	0.038	mg/L	1	06/14/22 15:02	EPA200.7		AES
1agnesium*	27.2	0.100	0.030	mg/L	1	06/14/22 15:02	EPA200.7		AES
otassium*	3.15	1.00	0.178	mg/L	1	06/14/22 15:02	EPA200.7		AES
odium*	67.8	1.00	0.076	mg/L	1	06/14/22 15:02	EPA200.7		AES

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

MW #4A

2206099-03 (Ground Water)									
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	440	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Total as CaCO3*	440	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Bromide	0.120	0.100	0.0274	mg/L	1	06/14/22 01:20	EPA300.0		AES
Chloride*	13.1	1.00	0.0555	mg/L	1	06/14/22 01:20	EPA300.0		AES
Conductivity*	1080	1.00		umho/cm @ 25.0°C	1	06/09/22 14:25	2510 B		VJW
Fluoride*	0.444	0.100	0.00971	mg/L	1	06/14/22 01:20	EPA300.0		AES
Nitrate as N*	0.268	0.020	0.007	mg/L	1	06/09/22 14:36	EPA300.0		AES
Nitrate+Nitrite as N by IC	0.268	0.0400	0.0110	mg/L	1	06/09/22 14:36	EPA300.0		AES
Nitrite as N*	< 0.020	0.020	0.004	mg/L	1	06/09/22 14:36	EPA300.0		AES
Ortho-Phosphate as P	< 0.0500	0.0500	0.0104	mg/L	1	06/09/22 14:36	EPA300.0		AES
pH*	7.17			pH Units	1	06/09/22 14:25	EPA150.1		VJW
pH Temperature, degrees C	22.3			pH Units	1	06/09/22 14:25	EPA150.1		VJW
Total Dissolved Solids*	735	10.0		mg/L	1	06/09/22 16:30	EPA160.1		VJW
Sulfate*	151	5.00	0.620	mg/L	5	06/14/22 22:55	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7)									
Calcium*	154	0.100	0.038	mg/L	1	06/17/22 12:20	EPA200.7		AES
Magnesium*	16.2	0.100	0.030	mg/L	1	06/17/22 12:20	EPA200.7		AES
Potassium*	1.51	1.00	0.178	mg/L	1	06/17/22 12:20	EPA200.7		AES
Sodium*	63.5	1.00	0.076	mg/L	1	06/17/22 12:20	EPA200.7		AES

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

MW #5

2206099-04 (Ground Water)											
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst		
General Chemistry											
Alkalinity, Bicarbonate as CaCO3*	355	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Alkalinity, Carbonate as CaCO3*	40.0	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Alkalinity, Total as CaCO3*	395	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Bromide	< 0.200	0.200	0.0548	mg/L	2	06/14/22 01:40	EPA300.0		AES		
Chloride*	22.5	2.00	0.111	mg/L	2	06/14/22 01:40	EPA300.0		AES		
Conductivity*	1940	1.00		umho/cm @ 25.0°C	1	06/09/22 14:25	2510 B		VJW		
Fluoride*	< 0.200	0.200	0.0194	mg/L	2	06/14/22 01:40	EPA300.0		AES		
Nitrate as N*	0.300	0.040	0.014	mg/L	2	06/09/22 14:54	EPA300.0		AES		
Nitrate+Nitrite as N by IC	0.300	0.0800	0.0219	mg/L	2	06/09/22 14:54	EPA300.0		AES		
Nitrite as N*	< 0.040	0.040	0.008	mg/L	2	06/09/22 14:54	EPA300.0		AES		
Ortho-Phosphate as P	< 0.100	0.100	0.0209	mg/L	2	06/09/22 14:54	EPA300.0		AES		
pH*	7.18			pH Units	1	06/09/22 14:25	EPA150.1		VJW		
pH Temperature, degrees C	22.0			pH Units	1	06/09/22 14:25	EPA150.1		VJW		
Total Dissolved Solids*	1540	10.0		mg/L	1	06/09/22 16:30	EPA160.1		VJW		
Sulfate*	718	20.0	2.48	mg/L	20	06/14/22 23:15	EPA300.0		AES		
Total Recoverable Metals by ICP (E200.7)											
Calcium*	286	0.200	0.077	mg/L	2	06/17/22 12:24	EPA200.7		AES		
Magnesium*	35.8	0.200	0.059	mg/L	2	06/17/22 12:24	EPA200.7		AES		
Potassium*	17.6	2.00	0.355	mg/L	2	06/17/22 12:24	EPA200.7		AES		
Sodium*	112	2.00	0.152	mg/L	2	06/17/22 12:24	EPA200.7		AES		

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

MW #6

		220609	9-05 (Grou	und Water)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	445	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Total as CaCO3*	445	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Bromide	< 0.100	0.100	0.0274	mg/L	1	06/16/22 18:27	EPA300.0		AES
Chloride*	5.79	1.00	0.0555	mg/L	1	06/16/22 18:27	EPA300.0		AES
Conductivity*	918	1.00		umho/cm @ 25.0°C	1	06/10/22 08:30	2510 B		PMS
Fluoride*	0.432	0.100	0.00971	mg/L	1	06/16/22 18:27	EPA300.0		AES
Nitrate as N*	0.338	0.020	0.007	mg/L	1	06/09/22 15:51	EPA300.0		AES
Nitrate+Nitrite as N by IC	0.338	0.0400	0.0110	mg/L	1	06/09/22 15:51	EPA300.0		AES
Nitrite as N*	< 0.020	0.020	0.004	mg/L	1	06/09/22 15:51	EPA300.0		AES
Ortho-Phosphate as P	< 0.0500	0.0500	0.0104	mg/L	1	06/09/22 15:51	EPA300.0		AES
pH*	7.07			pH Units	1	06/10/22 08:30	EPA150.1		PMS
pH Temperature, degrees C	19.5			pH Units	1	06/10/22 08:30	EPA150.1		PMS
Total Dissolved Solids*	600	10.0		mg/L	1	06/10/22 16:05	EPA160.1		VJW
Sulfate*	79.9	5.00	0.620	mg/L	5	06/20/22 15:11	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7))								
Calcium*	145	0.100	0.038	mg/L	1	06/17/22 12:28	EPA200.7		AES
Magnesium*	15.8	0.100	0.030	mg/L	1	06/17/22 12:28	EPA200.7		AES
Potassium*	1.29	1.00	0.178	mg/L	1	06/17/22 12:28	EPA200.7		AES
Sodium*	33.2	1.00	0.076	mg/L	1	06/17/22 12:28	EPA200.7		AES

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

MW #7

2206099-06 (Ground Water)											
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst		
General Chemistry											
Alkalinity, Bicarbonate as CaCO3*	305	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Alkalinity, Total as CaCO3*	305	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Bromide	0.258	0.200	0.0548	mg/L	2	06/16/22 18:46	EPA300.0		AES		
Chloride*	22.6	2.00	0.111	mg/L	2	06/16/22 18:46	EPA300.0		AES		
Conductivity*	1850	1.00		umho/cm @ 25.0°C	1	06/10/22 08:30	2510 B		PMS		
Fluoride*	0.422	0.200	0.0194	mg/L	2	06/16/22 18:46	EPA300.0		AES		
Nitrate as N*	0.480	0.040	0.014	mg/L	2	06/09/22 16:10	EPA300.0		AES		
Nitrate+Nitrite as N by IC	0.480	0.0800	0.0219	mg/L	2	06/09/22 16:10	EPA300.0		AES		
Nitrite as N*	< 0.040	0.040	0.008	mg/L	2	06/09/22 16:10	EPA300.0		AES		
Ortho-Phosphate as P	< 0.100	0.100	0.0209	mg/L	2	06/09/22 16:10	EPA300.0		AES		
pH*	7.02			pH Units	1	06/10/22 08:30	EPA150.1		PMS		
pH Temperature, degrees C	15.7			pH Units	1	06/10/22 08:30	EPA150.1		PMS		
Total Dissolved Solids*	1570	10.0		mg/L	1	06/10/22 16:05	EPA160.1		VJW		
Sulfate*	794	25.0	3.10	mg/L	25	06/20/22 15:30	EPA300.0		AES		
Total Recoverable Metals by ICP (E200.7)											
Calcium*	318	0.200	0.077	mg/L	2	06/17/22 12:30	EPA200.7		AES		
Magnesium*	30.6	0.200	0.059	mg/L	2	06/17/22 12:30	EPA200.7		AES		
Potassium*	2.50	2.00	0.355	mg/L	2	06/17/22 12:30	EPA200.7		AES		
Sodium*	86.2	2.00	0.152	mg/L	2	06/17/22 12:30	EPA200.7		AES		

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

MW #8

2206099-07 (Ground Water)											
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst		
General Chemistry											
Alkalinity, Bicarbonate as CaCO3*	400	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Alkalinity, Total as CaCO3*	400	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Bromide	< 0.100	0.100	0.0274	mg/L	1	06/16/22 19:06	EPA300.0		AES		
Chloride*	24.7	1.00	0.0555	mg/L	1	06/16/22 19:06	EPA300.0		AES		
Conductivity*	1020	1.00		umho/cm @ 25.0°C	1	06/10/22 08:30	2510 B		PMS		
Fluoride*	0.402	0.100	0.00971	mg/L	1	06/16/22 19:06	EPA300.0		AES		
Nitrate as N*	0.664	0.020	0.007	mg/L	1	06/09/22 16:29	EPA300.0		AES		
Nitrate+Nitrite as N by IC	0.664	0.0400	0.0110	mg/L	1	06/09/22 16:29	EPA300.0		AES		
Nitrite as N*	< 0.020	0.020	0.004	mg/L	1	06/09/22 16:29	EPA300.0		AES		
Ortho-Phosphate as P	< 0.0500	0.0500	0.0104	mg/L	1	06/09/22 16:29	EPA300.0		AES		
pH*	7.17			pH Units	1	06/10/22 08:30	EPA150.1		PMS		
pH Temperature, degrees C	17.5			pH Units	1	06/10/22 08:30	EPA150.1		PMS		
Total Dissolved Solids*	705	10.0		mg/L	1	06/10/22 16:05	EPA160.1		VJW		
Sulfate*	152	5.00	0.620	mg/L	5	06/20/22 15:50	EPA300.0		AES		
Total Recoverable Metals by ICP (E200.7)											
Calcium*	144	0.100	0.038	mg/L	1	06/17/22 12:35	EPA200.7		AES		
Magnesium*	16.1	0.100	0.030	mg/L	1	06/17/22 12:35	EPA200.7		AES		
Potassium*	1.98	1.00	0.178	mg/L	1	06/17/22 12:35	EPA200.7		AES		
Sodium*	62.9	1.00	0.076	mg/L	1	06/17/22 12:35	EPA200.7		AES		

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

MW #9

2206099-08 (Ground Water)											
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst		
General Chemistry											
Alkalinity, Bicarbonate as CaCO3*	295	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Alkalinity, Total as CaCO3*	295	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW		
Bromide	< 0.200	0.200	0.0548	mg/L	2	06/16/22 19:25	EPA300.0		AES		
Chloride*	8.81	2.00	0.111	mg/L	2	06/16/22 19:25	EPA300.0		AES		
Conductivity*	2110	1.00		umho/cm @ 25.0°C	1	06/10/22 08:30	2510 B		PMS		
Fluoride*	0.440	0.200	0.0194	mg/L	2	06/16/22 19:25	EPA300.0		AES		
Nitrate as N*	1.20	0.040	0.014	mg/L	2	06/09/22 16:48	EPA300.0		AES		
Nitrate+Nitrite as N by IC	1.20	0.0800	0.0219	mg/L	2	06/09/22 16:48	EPA300.0		AES		
Nitrite as N*	< 0.040	0.040	0.008	mg/L	2	06/09/22 16:48	EPA300.0		AES		
Ortho-Phosphate as P	< 0.100	0.100	0.0209	mg/L	2	06/09/22 16:48	EPA300.0		AES		
pH*	7.15			pH Units	1	06/10/22 08:30	EPA150.1		PMS		
pH Temperature, degrees C	17.0			pH Units	1	06/10/22 08:30	EPA150.1		PMS		
Total Dissolved Solids*	1840	10.0		mg/L	1	06/10/22 16:05	EPA160.1		VJW		
Sulfate*	982	50.0	6.20	mg/L	50	06/20/22 16:09	EPA300.0		AES		
Total Recoverable Metals by ICP (E200.7)											
Calcium*	379	0.200	0.077	mg/L	2	06/17/22 12:39	EPA200.7		AES		
Magnesium*	32.2	0.200	0.059	mg/L	2	06/17/22 12:39	EPA200.7		AES		
Potassium*	3.76	2.00	0.355	mg/L	2	06/17/22 12:39	EPA200.7		AES		
Sodium*	101	2.00	0.152	mg/L	2	06/17/22 12:39	EPA200.7		AES		

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

General Chemistry - Quality Control

Result			T. 1	D - 1/	0/050	T 1 14	DDD	T 1. 14	NT /		
	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
		Prep	ared & Anal	lyzed: 06/09	9/22						
ND	10.0	mg/L									
		Prep	ared & Anal	lyzed: 06/09	9/22						
ND	0.020	mg/L									
ND	0.020	mg/L									
ND	0.0500	mg/L									
	Prepared & Analyzed: 06/09/22										
1.03	0.020	mg/L	1.00		103	90-110					
1.03	0.020	mg/L	1.00		103	90-110					
1.02	0.0500	mg/L	1.00		102	90-110					
	Prepared & Analyzed: 06/09/22										
1.02	0.020	mg/L	1.00		102	90-110	1.12	20			
1.03	0.020	mg/L	1.00		103	90-110	0.311	20			
1.02	0.0500	mg/L	1.00		102	90-110	0.353	20			
Prepared & Analyzed: 06/10/22											
ND	10.0	mg/L									
Sou	rce: 2206099-0)5 Prep	ared & Anal	lyzed: 06/10)/22						
605	10.0	mg/L		600			0.839	20			
		Prep	ared & Anal	lyzed: 06/10)/22						
420	10.0	mg/L	380	•	111	85-115					
		Prep	ared & Anal	lyzed: 06/13	3/22						
ND	0.100	mg/L									
ND	1.00	mg/L									
ND	0.100	mg/L									
ND	1.00	mg/L									
		Prep	ared & Anal	lyzed: 06/13	3/22						
2.56	0.100	mg/L	2.50		102	90-110					
		The re	sults in this re-	port apply to t	he samples an	alvzed in acco	ordance with	the chain of			
					-						
							-	-			
							0.		or		
	ND ND ND 1.03 1.03 1.02 1.02 1.03 1.02 1.03 1.02 ND 605 420 ND ND ND ND ND ND ND	ND 0.020 ND 0.020 ND 0.0500 1.03 0.020 1.03 0.020 1.02 0.0500 1.02 0.0500 1.03 0.020 1.02 0.0500 1.03 0.020 1.04 0.0500 1.05 0.0500 1.02 0.0500 1.03 0.020 1.04 0.0500 1.05 0.0500 1.06 10.0 420 10.0 ND 0.100 ND 1.00 ND 1.00	ND 10.0 mg/L ND 10.0 mg/L ND 0.020 mg/L 1.03 0.020 mg/L 1.03 0.020 mg/L 1.02 0.0500 mg/L 1.02 0.020 mg/L 1.03 0.020 mg/L 1.02 0.0500 mg/L 1.03 0.020 mg/L 1.02 0.0500 mg/L 1.03 0.020 mg/L 1.03 0.020 mg/L 1.02 0.0500 mg/L MD 10.0 mg/L MD 10.0 mg/L MD 1.00 mg/L MD 1.00 mg/L ND 1.00 mg/L ND 1.00 mg/L	ND 10.0 mg/L Prepared & Anal ND 0.020 mg/L ND 0.020 mg/L ND 0.020 mg/L ND 0.020 mg/L ND 0.0500 mg/L 1.03 0.020 mg/L 1.00 1.03 0.020 mg/L 1.00 1.02 0.0500 mg/L 1.00 1.02 0.020 mg/L 1.00 1.02 0.020 mg/L 1.00 1.03 0.020 mg/L 1.00 1.02 0.0500 mg/L 1.00 1.02 0.0500 mg/L 1.00 Prepared & Anal 605 10.0 mg/L Prepared & Anal 605 10.0 mg/L Prepared & Anal 420 10.0 mg/L ND 1.00 mg/L ND 1.00 mg/L	ND 10.0 ng/L Prepared & Analyzed: 06/09 ND 0.020 mg/L ND 0.020 mg/L ND 0.0500 mg/L ND 0.020 mg/L ND 0.0500 mg/L 1.03 0.020 mg/L 1.00 1.03 0.020 mg/L 1.00 1.02 0.0500 mg/L 1.00 1.02 0.0500 mg/L 1.00 1.02 0.020 mg/L 1.00 1.02 0.020 mg/L 1.00 1.02 0.0500 mg/L 1.00 1.02 0.0500 mg/L 1.00 Prepared & Analyzed: 06/10 ND 10.0 mg/L 600 Prepared & Analyzed: 06/10 605 10.0 mg/L 380 Prepared & Analyzed: 06/11 MD 1.00 mg/L 06/11 ND 1.00	Prepared & Analyzed: 06/09/22 ND 0.020 mg/L ND 0.020 mg/L ND 0.0500 mg/L 1.03 0.020 mg/L 1.03 0.020 mg/L 1.03 0.020 mg/L 1.00 1.02 0.0500 mg/L 1.00 103 1.02 0.0500 mg/L 1.00 102 Prepared & Analyzed: 06/09/22 1.02 0.020 mg/L 1.00 102 1.00 102 1.02 0.020 mg/L 1.00 102 1.03 0.020 mg/L 1.00 102 1.02 0.020 mg/L 1.00 103 1.02 0.020 mg/L 1.00 102 Prepared & Analyzed: 06/10/22 ND 1.00 mg/L 600 Prepared & Analyzed: 06/10/22 420 10.0 mg/L 380 111	ND 10.0 mg/L Prepared & Analyzed: 06/09/22 ND 0.020 mg/L 1.03 0.020 mg/L 1.00 103 90-110 1.02 0.0500 mg/L 1.00 102 90-110 Prepared & Analyzed: 06/09/22 1.02 0.020 mg/L 1.00 102 90-110 Imprepared & Analyzed: 06/09/22 1.02 0.020 mg/L 1.00 102 90-110 Imprepared & Analyzed: 06/10/22 ND 10.0 mg/L 600 Prepared & Analyzed: 06/10/22 420 10.0 mg/L 380 111 85-115 Prepared & Analyzed: 06/13/22 ND 0.100 mg/L ND	ND 10.0 mg/L Prepared & Analyzed: 06/09/22 ND 0.020 mg/L 1.03 0.020 mg/L 1.02 0.0500 mg/L 1.02 0.0500 mg/L 1.02 0.020 mg/L 1.00 102 90-110 1.02 0.020 mg/L 1.00 1.02 0.020 mg/L 1.00 1.02 0.020 mg/L 1.00 102 90-110 0.311 1.02 0.0500 mg/L 1.00 1.02 0.0500 mg/L 1.00 102 90-110 0.353 Prepared & Analyzed: 06/10/22 MD 1.00 mg/L 600 0.839 Prepared & Analyzed: 06/13/22 </td <td>ND 10.0 mg/L Prepared & Analyzed: 06/09/22 ND 0.020 mg/L ND 0.0500 mg/L ND 0.0500 mg/L Prepared & Analyzed: 06/09/22 1.03 0.020 mg/L 1.03 0.020 mg/L 1.00 1.02 0.0500 mg/L 1.00 102 90-110 1.02 0.020 mg/L 1.00 102 90-110 1.12 20 1.02 0.020 mg/L 1.00 103 90-110 0.311 20 Prepared & Analyzed: 06/10/22 1.02 0.020 mg/L 1.00 102 90-110 0.353 20 Prepared & Analyzed: 06/10/22 MD 10.0 mg/L 600 0.839 20 Prepared & Analyzed: 06/10/22 605 10.0 mg/L 380 111 85-115 Prepared & Analyzed: 06/13/22 <tr< td=""></tr<></td>	ND 10.0 mg/L Prepared & Analyzed: 06/09/22 ND 0.020 mg/L ND 0.0500 mg/L ND 0.0500 mg/L Prepared & Analyzed: 06/09/22 1.03 0.020 mg/L 1.03 0.020 mg/L 1.00 1.02 0.0500 mg/L 1.00 102 90-110 1.02 0.020 mg/L 1.00 102 90-110 1.12 20 1.02 0.020 mg/L 1.00 103 90-110 0.311 20 Prepared & Analyzed: 06/10/22 1.02 0.020 mg/L 1.00 102 90-110 0.353 20 Prepared & Analyzed: 06/10/22 MD 10.0 mg/L 600 0.839 20 Prepared & Analyzed: 06/10/22 605 10.0 mg/L 380 111 85-115 Prepared & Analyzed: 06/13/22 <tr< td=""></tr<>		

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thirty days after completion of the applicable service.



Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B221538 - IC- Ion Chromatogr	aph (Continued)									

LCS (B221538-BS1) (Continued)			Prep	ared & Analyzed	: 06/13/22			
Chloride	24.8	1.00	mg/L	25.0	99.3	90-110		
Fluoride	2.39	0.100	mg/L	2.50	95.8	90-110		
Sulfate	23.6	1.00	mg/L	25.0	94.2	90-110		
LCS Dup (B221538-BSD1)			Prep	ared & Analyzed	: 06/13/22			
Bromide	2.65	0.100	mg/L	2.50	106	90-110	3.34	20
Chloride	24.4	1.00	mg/L	25.0	97.7	90-110	1.65	20
Fluoride	2.38	0.100	mg/L	2.50	95.1	90-110	0.713	20
Sulfate	23.7	1.00	mg/L	25.0	94.8	90-110	0.614	20

Batch B221552 - General Prep - Wet Chem

Duplicate (B221552-DUP1) Source: 2206099-08 Prepared & Analyzed: 06/10/22										
pH	7.19	pH Units	7.15	0.558	20					
pH Temperature, degrees C	17.8	pH Units	17.0	4.60	200					
Reference (B221552-SRM1)		Prepared &								
рН	7.00	pH Units 7.0	0 10	00 38.57-101.42						

Batch B221555 - General Prep - Wet Chem

Duplicate (B221555-DUP1)	Source	: 2206099-08 Prepar	ed & Analyz	zed: 06/10/22				
Conductivity	2100	1.00 umho/cm @ 25.0°C		2110		0.332	20	
Reference (B221555-SRM1)		Prepar						
Conductivity	1020	1.00 umho/cm @ 25.0°C	1000	102	90-110			

Batch B221575 - IC- Ion Chromatograph

Blank (B221575-BLK1)			Prep	ared: 06/15/22 A	nalyzed: 06/16/22	2
Bromide	ND	0.100	mg/L			
Chloride	ND	1.00	mg/L			
Fluoride	ND	0.100	mg/L			
Sulfate	ND	1.00	mg/L			
LCS (B221575-BS1)			Prep	ared: 06/15/22 A	nalyzed: 06/16/22	2
Bromide	2.56	0.100	mg/L	2.50	102	90-110
Chloride	24.3	1.00	mg/L	25.0	97.0	90-110
Fluoride	2.35	0.100	mg/L	2.50	94.1	90-110
	23.0	1.00	mg/L	25.0	92.1	90-110

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B221575 - IC- Ion Chromatograp										

LCS Dup (B221575-BSD1)			Prep	ared: 06/15/22	Analyzed: 06/16/22	2		
Bromide	2.58	0.100	mg/L	2.50	103	90-110	0.895	20
Chloride	24.8	1.00	mg/L	25.0	99.3	90-110	2.34	20
Fluoride	2.40	0.100	mg/L	2.50	95.8	90-110	1.77	20
Sulfate	23.4	1.00	mg/L	25.0	93.7	90-110	1.72	20

Batch B221625 - General Prep - Wet Chem

Blank (B221625-BLK1)			Prep	ared & Analyzed	06/20/22				
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L						
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L						
Alkalinity, Total as CaCO3	ND	10.0	mg/L						
LCS (B221625-BS1)			Prep	ared & Analyzed	06/20/22				
Alkalinity, Bicarbonate as CaCO3	99.0	10.0	mg/L	100	99.0	85-115			
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L			85-115			
Alkalinity, Total as CaCO3	99.0	10.0	mg/L	100	99.0	85-115			
LCS Dup (B221625-BSD1)			Prep	ared & Analyzed	06/20/22				
Alkalinity, Bicarbonate as CaCO3	102	10.0	mg/L	100	102	85-115	2.99	20	
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L			85-115		20	
Alkalinity, Total as CaCO3	102	10.0	mg/L	100	102	85-115	2.99	20	

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

Total Recoverable Metals by ICP (E200.7) - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B221539 - Total Recoverable by ICP										
Blank (B221539-BLK1)			Prep	ared: 06/13/	22 Analyze	ed: 06/14/22	2			
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B221539-BS1)			Prep	ared: 06/13/	22 Analyze	ed: 06/14/22	2			
Calcium	2.00	0.100	mg/L	2.00		100	85-115			
Magnesium	10.0	0.100	mg/L	10.0		100	85-115			
Potassium	4.01	1.00	mg/L	4.00		100	85-115			
Sodium	1.69	1.00	mg/L	1.62		105	85-115			
LCS Dup (B221539-BSD1)			Prep	ared: 06/13/	22 Analyze	ed: 06/14/22	2			
Calcium	1.99	0.100	mg/L	2.00		99.5	85-115	0.611	20	
Magnesium	10.0	0.100	mg/L	10.0		100	85-115	0.0854	20	
Potassium	4.06	1.00	mg/L	4.00		102	85-115	1.28	20	
Sodium	1.66	1.00	mg/L	1.62		102	85-115	2.04	20	
Batch B221560 - Total Recoverable by ICP										
Blank (B221560-BLK1)			Prep	ared: 06/14/	22 Analyze	ed: 06/17/22	2			
Calcium	ND	0.100	mg/L		•					
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B221560-BS1)			Prep	ared: 06/14/	22 Analyze	ed: 06/17/22	2			
Calcium	2.02	0.100	mg/L	2.00		101	85-115			
Magnesium	10.4	0.100	mg/L	10.0		104	85-115			
Potassium	4.08	1.00	mg/L	4.00		102	85-115			
Sodium	1.69	1.00	mg/L	1.62		105	85-115			
LCS Dup (B221560-BSD1)			Prep	ared: 06/14/	22 Analyze	ed: 06/17/22	2			
Calcium	1.99	0.100	mg/L	2.00		99.5	85-115	1.52	20	
Magnesium	10.3	0.100	mg/L	10.0		103	85-115	0.954	20	
Potassium	4.05	1.00	mg/L	4.00		101	85-115	0.816	20	
Sodium	1.70	1.00	mg/L	1.62		105	85-115	0.0475	20	

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/21/22 14:24

Notes and Definitions

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 *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	n le obreit z			()	ts subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder DITIONAL REMARKS: Report to State? (Circle)																
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d	to Imag	ing: 9	/12/2	023 2:2	1:39 F	PM															

Date: Peceived By: ADD Time: Date: Received By: ADD Date: Date: Received By: Circle One) Circle One) Date: Received By: Time: Time: Temperature at reciept: CHECKED BY FedEx - Kangaroo - Other: Temperature at reciept: CHECKED BY	J. # 9 J. STIO X I STIO X I silve remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including these ent shall CAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client for the above stated researce or cherewise. Date: Received By: Image: Date: Received By: Time: Date: Date: Received By: Time: Date: Received By: Time: Date: Received By:				A REAL PROPERTY AND A REAL		
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Date: Prime: Received By: Time: Date: Received By: Date: Received By: Time: Date:	- o8 M W # 9 I SIO X I SIO X I SIO X PLEASE NOTE: GAL's liability and client's exclusive remedy for any cliam arising whether based in contract or fort, shall be limited to the analysts. All claims including those for negligence and any other cause why or GAL, regardless of whether such cliam is based upon any of the above stated reasons or otherwise. X I SIO X I SIO X I SIO X PCAL, regardless of whether such cliam is based upon any of the above stated reasons or otherwise. Date: Date: Date: Neclived By: ADDITIONAL REMARKS: Relinquished By: Date: Date: Received By: ADDITIONAL REMARKS: ADDITIONAL REMARKS: Relinquished By: Date: Date: Received By: ADDITIONAL REMARKS:	>	CHECKED BY	Temperature at reciept:			elivered By: (Circle One)
Date: Date: Received By: Time: Date: Received By: Date: Date: Received By:	- og M W # 9 I SIO X I I I X X PLEASE NOTE: GAL's leability and client's exclusive remedy for any claim anticing whether based in contract or tort, shall be limited to the annulut paid by the client for the analyses. All claims including those for negligence and any other cause why or GAL within 30 days after competition. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor without limitation. VecAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Date: Received By: ADDITIONAL REMARKS: Time: Date: Date: Date: Received By: ADDITIONAL REMARKS: Relinquished By: Date: Date: Received By: ADDITIONAL REMARKS:					Time:	
V: - Date: Time: Date: Date: Time: Time: Pin	- of M W # 9 I SID X I SID X I SID X PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim axising whether based in contract or lott, shall be imitted to the anount paid by the client for the analyses. All claims including those for negligence and any other cause where ye GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Date: Date: Date: Received By: Date: Date: ADDITIONAL REMARKS: Relinquished By: Date: Date: Date: Date: ADDITIONAL REMARKS: ADDITIONAL REMARKS: Relinquished By: Date: Date: Date: ADDITIONAL REMARKS:		v		Received By:	Date:	linquished By:
V: Date: Received By: Time: Date: Received By:	- og M W # 9 I SIO X I I I X X PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the annulut paid by the client for the analyses. All claims including those for negligence and any other cause whore or GAL, ingardiess of whether such claim is based upon any of the above stated reasons or otherwise. I SIO X I I X X<		Secularity			Time:	ν. V
Date: 10/8/22 Received By: Time: Time:	- og M W # 9 I SID X I III X PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including these for negligence and any other cause why by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successory GAL, regardless of whether such claim is based upon any of the above stated reases or otherwise. Relinquished By: Date: Imp: Not Celling Without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successor Relinquished By: Interview Time: Not Set in the subsidiaries and the subsidiaries an		1		Received By:	Date:	Inquished By:
Date: Received By:	TOS MW#9 ISIO III X PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including these for medigence and any other cause where year GAL regardless of whether such claim is based upon any of the above stated reasons or otherwise. ISIO X IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		We es	ma Jun		Time:	
	TOS MW#9 ISIO IIIO X PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or lot, shall be limited to the amount paid by the client for the analyses. All claims including those for megligence and any other cause where y GAL within 30 days after complexity. In the event shall GAL be liable for incidental or consequential damages, including without limited to the analyses. All claims including those for megligence and any other cause where y GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ADDITIONAL REMARKS:		1	Received By:	Date:	elinguished By:
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Company Name: Col	Company Name: Cottonwood Consulting LLC		2040002	Bill to (if different):	nt):		ANALYSIS REQUEST	ST
Project Manager: Kyle Siesser	(yle Siesser			P.O. #:				
Address: PO Box 1653	.653			Company:				
City: Durango	State: CO	Zip: 81302	-	Attn:	2 - 2			
Phone #: 970-764-7356	7356 Email: ksiesser@cottonwoodconsulting.com	nwoodconsulting		Address:				
Additional Report To:				City:				
Project Name: GCU #170	±170		0	State: Zip:				0.4000 (00.4000 Alterna post com
Project Number:			I	#				****
Sampler Name (Priv	Sampler Name (Print): Emma Millar/Kyle Siesser		F	Fax or Email:				
FOR LAB USE ONLY		Collected		ck one)	# of containers	ist		
Lab I.D.	Sample Name or Location			EDWATER		ttached		
2206 - 099		Date T	Time	SURFAC WASTEV PRODUCI SOIL DTHER :	H₂SO₄ Other: Other:	see a		
-01	MW #2A	6/8/22 1	525)	- 1	(×		
20.	MW #3A	1 15	535 >	-	-	\times		
- 03	MM #4A	SI	515 >	×		×		
- 04	NV #S	1	X42 X	-		×		
1 05	MN #0	15	x ors	-		×		
- 06	MW HJ	SI		×		× 1		
- 07	N W # 0	51		×		×		
- 08	M W # 9	F 12	-	×		X		
PLEASE NOTE: GAL's flability and by GAL within 30 days after comple by GAL, regardless of whether such	PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and receiver by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	tort, shall be limited to the amo s, including without limitation, b	unt paid by the usiness interrup	otent for the analyses. All claims including the booms, loss of use, or loss of profils incurred by c	se for negligence and any lient, its subsidiaries, affilia	other cause whatsoev tes or successors arisir	rer shall be deemed walved unless made in ing out of or related to the performance of	in writing and receiver services hereunder
	Date: しつしてレ	Received By:	-	S	ADDITIONAL REMARKS	MARKS:	Report to State? (Circle)	ircle)
		-	50	Munio an			Yes No	

Page 18 of 37

Analytical

(970) 247-4220 Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com 75 Suttle St Durango, CO 81303

EPA METHOD 300.0: ANIONS

- Fluoride
- Chloride
- Nitrogen, Nitrite (As N)
- Bromide
- Nitrogen, Nitrate (As N)
- Phosphorus, Orthophosphate (As P)
- Sulfate

EPA METHOD 200.7: METALS

- [°]Calcium
- Magnesium
- Potassium
- Sodium

SM2510B: SPECIFIC CONDUCTANCE

- Conductivity
- SM4500-H+B / 9040C: PH
- pH

SM2320B: ALKALINITY

- Bicarbonate (As CaCO3)
- Carbonate (As CaCO3)
- Total Alkalinity (as CaCO3)

SM2540C MOD: TOTAL DISSOLVED SOLIDS

0.

Total Dissolved Solids

Cottonwood Consulting, LLC MONITOR WELL DEVELOPMENT &/ OR SAMPLING DATA

CLIENT : SIMCOE LLC

Date : $12 14 12$ DEVELOPER / SAMPLER : $5M / JA$ WELL WELL WATER DEPTH TO TOTAL SAMPLING pH CONDUCT TEMP. VOLUME # ELEV. ELEV. (ft) (ft) DEPTH DEPTH TIME pH CONDUCT TEMP. VOLUME 2A 99.57 7.98 14.80 1540 7.81 222.0 8.6 3.4 3A 97.46 7.25 15.88 1515 Q.02 224.0 9.7 4.2 4A 99.08 8.05 15.98 152.5 7.45 10533 9.1 3.9 5 96.05 6.97 19.30 16.05 7.745 12533 9.1 3.4 7 99.97 8.63 18.78 15.50 8.07 23.0 7.0 5.0 8 97.69 8.21 18.08 1555 8.07 23.50 5.8 4.8 3.8 9 100.28 70.63 18.43 1505 8.07 23.50 5.8 3.8 <	GCU #170 UNIT K, SE	C. 35, T29N	, R12W			LABORATOF	RY (S) USED	: .	GAI	
#ELEV. (ft)ELEV. (ft)WATER (ft)DEPTH 	Date :	12/14/	12			C	DEVELOPER	/ SAMPLER :	EM/J	۹
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
3A 97.46 7.25 15.88 1515 $Q.02$ 2245 9.7 4.2 $4A$ 99.08 8.05 15.98 $I525$ 7.25 1053 9.1 3.9 5 96.05 6.87 19.30 $I605$ 7.25 1053 9.1 3.9 6 101.53 9.12 15.98 $I535$ 7.781 2220 9.2 3.4 7 99.97 8.63 18.78 $I550$ 8.0 2030 7.0 5.0 8 97.69 8.21 18.08 $I555$ 8.07 2250 5.8 4.8		(ft)	(ft)	(ft)	(ft)					(gal.)
3A 97.46 7.25 15.88 1515 $Q.02$ 2245 9.7 4.2 $4A$ 99.08 8.05 15.98 $I525$ 7.25 1053 9.1 3.9 5 96.05 6.87 19.30 $I605$ 7.25 1053 9.1 3.9 6 101.53 9.12 15.98 $I535$ 7.781 2220 9.2 3.4 7 99.97 8.63 18.78 $I550$ 8.0 2030 7.0 5.0 8 97.69 8.21 18.08 $I555$ 8.07 2250 5.8 4.8	L									
4A 99.08 8.05 15.98 1525 7.45 1053 9.1 3.9 5 96.05 6.97 19.30 1605 7.491 852.260 9.264 6.0 6 101.53 9.12 15.98 1535 7.781 2220 852 9.2 3.4 7 99.97 8.63 18.78 1550 8.0 2030 7.0 5.0 8 97.69 8.21 18.08 1555 8.07 2250 5.8 4.8	2A	99.57	1	7.98	14.80	1540	7.81	2220	8.6	and the second second second second second second
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3A	97.46		7.28	15.88	1515	8.02	2240	9,1	4.2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4A	99.08		8.05	15.98	1525	7.95	1053	9.1	3.9
7 99.97 8.63 18.78 1550 8.0 2030 7.0 5.0 8 97.69 8.21 18.08 1555 8.07 2250 5.8 4.8	5	96.05		6.87	19.30	1605	7.891.91	8522630	9.2 6,4	6.0
7 99.97 8.63 18.78 1550 8.0 2030 7.0 5.0 8 97.69 8.21 18.08 1555 8.07 2250 5.8 4.8	6	101.53		9.12	15.98	1535	7.7.89	2220 852	9.2	3.4
8 97.69 8.21 18.08 1555 8.07 2250 5.8 4.3	7	99.97		8.63	18.78	1550	8.0		-	5.0
	8	97.69			18.08	1555	8.07	2250	5.8	4.8
	9	100.28		10.63	18.43	1505		1230	3.8	3.8

NOTES : Volume of water purged from well prior to sampling; $V = pi x r^2 x h x 7.48 \text{ gal./ft}^3 x 3$ (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gal./ft. of water.

Comments or note well diameter if not standard 2".

MW #9- water dear no sheen, no odor MW #5- Water Brown/Black VIERV

MW #2A, #3A, #4A, #5, & #6 casing tops completed with locking caps & flush mount well covers. MW #7, #8, & #9 casing tops completed with slip caps & above-grade well protectors with padlocked lids.



75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

03 January 2023

Kyle Siesser Cottonwood Consulting PO Box 1653 Durango, CO 81302 RE: Cottonwood

Enclosed are the results of analyses for samples received by the laboratory on 12/14/22 17:20. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

Jerry D. all

Jeremy D Allen Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-15

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

Laboratories		www.GreenAnalytical.com
Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2A	2212191-01	Water	12/14/22 15:40	12/14/22 17:20	
MW #3A	2212191-02	Water	12/14/22 15:15	12/14/22 17:20	
MW #4A	2212191-03	Water	12/14/22 15:25	12/14/22 17:20	
MW #5	2212191-04	Water	12/14/22 16:05	12/14/22 17:20	
MW #6	2212191-05	Water	12/14/22 15:35	12/14/22 17:20	
MW #7	2212191-06	Water	12/14/22 15:50	12/14/22 17:20	
MW #8	2212191-07	Water	12/14/22 15:55	12/14/22 17:20	
MW #9	2212191-08	Water	12/14/22 15:05	12/14/22 17:20	

Green Analytical Laboratories

Jerry S. all

Jeremy D Allen, Laboratory Director Released to Imaging: 9/12/2023 2:21:39 PM



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Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

MW #2A

		2212191	l-01 (Grou	nd Water)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	412	10.0	2.27	mg/L	2	12/21/22 14:00	2320 B		AWG
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	2	12/21/22 14:00	2320 B		AWG
Alkalinity, Total as CaCO3*	412	10.0	2.27	mg/L	2	12/21/22 14:00	2320 B		AWG
Bromide	0.688	0.200	0.0548	mg/L	2	12/22/22 05:17	EPA300.0		AES
Chloride*	59.4	2.00	0.111	mg/L	2	12/22/22 05:17	EPA300.0		AES
Conductivity*	2010	1.00		umho/cm@25 C	1	12/15/22 16:38	2510 B		AWG
Fluoride*	0.578	0.200	0.0194	mg/L	2	12/22/22 05:17	EPA300.0		AES
Nitrate as N*	0.169	0.040	0.014	mg/L	2	12/15/22 16:17	EPA300.0		AES
Nitrite as N*	< 0.040	0.040	0.008	mg/L	2	12/15/22 16:17	EPA300.0		AES
Ortho-Phosphate as P	< 0.100	0.100	0.0209	mg/L	2	12/15/22 16:17	EPA300.0		AES
pH*	7.09			pH Units	1	12/15/22 16:38	EPA150.1		AWG
pH Temperature, degrees C	16.2			pH Units	1	12/15/22 16:38	EPA150.1		AWG
Total Dissolved Solids*	1470	10.0		mg/L	1	12/19/22 15:24	EPA160.1		AWG
Sulfate*	675	20.0	2.48	mg/L	20	12/22/22 05:38	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7	7)								
Calcium*	272	0.200	0.077	mg/L	2	12/20/22 20:38	EPA200.7		AES
Magnesium*	35.9	0.200	0.059	mg/L	2	12/20/22 20:39	EPA200.7		AES
Potassium*	3.01	2.00	0.355	mg/L	2	12/20/22 20:38	EPA200.7		AES
Sodium*	145	2.00	0.152	mg/L	2	12/20/22 20:38	EPA200.7		AES

Green Analytical Laboratories

Jerry S. all

Jeremy D Allen, Laboratory Director *Released to Imaging: 9/12/2023 2:21:39 PM*



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Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

MW #3A

2212191-02 (Ground Water)									
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	254	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Total as CaCO3*	254	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Bromide	0.448	0.200	0.0548	mg/L	2	12/22/22 05:58	EPA300.0		AES
Chloride*	37.4	2.00	0.111	mg/L	2	12/22/22 05:58	EPA300.0		AES
Conductivity*	1980	1.00		umho/cm@25 C	1	12/15/22 16:38	2510 B		AWG
Fluoride*	0.626	0.200	0.0194	mg/L	2	12/22/22 05:58	EPA300.0		AES
Nitrate as N*	0.412	0.040	0.014	mg/L	2	12/15/22 16:36	EPA300.0		AES
Nitrite as N*	< 0.040	0.040	0.008	mg/L	2	12/15/22 16:36	EPA300.0		AES
Ortho-Phosphate as P	< 0.100	0.100	0.0209	mg/L	2	12/15/22 16:36	EPA300.0		AES
pH*	7.19			pH Units	1	12/15/22 16:38	EPA150.1		AWG
pH Temperature, degrees C	15.6			pH Units	1	12/15/22 16:38	EPA150.1		AWG
Total Dissolved Solids*	1580	10.0		mg/L	1	12/19/22 15:26	EPA160.1		AWG
Sulfate*	857	20.0	2.48	mg/L	20	12/22/22 06:19	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7)									
Calcium*	313	0.200	0.077	mg/L	2	12/20/22 20:43	EPA200.7		AES
Magnesium*	29.5	0.200	0.059	mg/L	2	12/20/22 20:43	EPA200.7		AES
Potassium*	3.62	2.00	0.355	mg/L	2	12/20/22 20:43	EPA200.7		AES
Sodium*	86.1	2.00	0.152	mg/L	2	12/20/22 20:43	EPA200.7		AES

Green Analytical Laboratories

Jerry S. all

Jeremy D Allen, Laboratory Director *Released to Imaging: 9/12/2023 2:21:39 PM*



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Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

MW #4A

2212191-03 (Ground Water)									
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	375	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Total as CaCO3*	375	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Bromide	0.120	0.100	0.0274	mg/L	1	12/22/22 13:02	EPA300.0		AES
Chloride*	11.4	1.00	0.0555	mg/L	1	12/22/22 13:02	EPA300.0		AES
Conductivity*	959	1.00		umho/cm@25 C	1	12/15/22 16:38	2510 B		AWG
Fluoride*	0.551	0.100	0.00971	mg/L	1	12/22/22 13:02	EPA300.0		AES
Nitrate as N*	0.687	0.020	0.007	mg/L	1	12/15/22 16:55	EPA300.0		AES
Nitrite as N*	0.042	0.020	0.004	mg/L	1	12/15/22 16:55	EPA300.0		AES
Ortho-Phosphate as P	< 0.0500	0.0500	0.0104	mg/L	1	12/15/22 16:55	EPA300.0		AES
pH*	7.17			pH Units	1	12/15/22 16:38	EPA150.1		AWG
pH Temperature, degrees C	15.6			pH Units	1	12/15/22 16:38	EPA150.1		AWG
Total Dissolved Solids*	615	10.0		mg/L	1	12/19/22 15:28	EPA160.1		AWG
Sulfate*	153	1.00	0.124	mg/L	1	12/22/22 13:02	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7	7)								
Calcium*	140	0.100	0.038	mg/L	1	12/20/22 20:47	EPA200.7		AES
Magnesium*	15.0	0.100	0.030	mg/L	1	12/20/22 20:48	EPA200.7		AES
Potassium*	1.54	1.00	0.178	mg/L	1	12/20/22 20:47	EPA200.7		AES
Sodium*	57.4	1.00	0.076	mg/L	1	12/20/22 20:47	EPA200.7		AES

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Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

MW #5

2212191-04 (Ground Water)									
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	320	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Total as CaCO3*	320	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Bromide	< 0.200	0.200	0.0548	mg/L	2	12/22/22 13:22	EPA300.0		AES
Chloride*	24.9	2.00	0.111	mg/L	2	12/22/22 13:22	EPA300.0		AES
Conductivity*	2370	1.00		umho/cm@25 C	1	12/15/22 16:38	2510 B		AWG
Fluoride*	0.376	0.200	0.0194	mg/L	2	12/22/22 13:22	EPA300.0		AES
Nitrate as N*	0.284	0.040	0.014	mg/L	2	12/15/22 17:14	EPA300.0		AES
Nitrite as N*	< 0.040	0.040	0.008	mg/L	2	12/15/22 17:14	EPA300.0		AES
Ortho-Phosphate as P	< 0.100	0.100	0.0209	mg/L	2	12/15/22 17:14	EPA300.0		AES
pH*	7.24			pH Units	1	12/15/22 16:38	EPA150.1		AWG
pH Temperature, degrees C	17.4			pH Units	1	12/15/22 16:38	EPA150.1		AWG
Total Dissolved Solids*	2040	10.0		mg/L	1	12/19/22 15:30	EPA160.1		AWG
Sulfate*	1120	20.0	2.48	mg/L	20	12/22/22 13:43	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7)									
Calcium*	401	0.200	0.077	mg/L	2	12/20/22 20:52	EPA200.7		AES
Magnesium*	47.8	0.200	0.059	mg/L	2	12/20/22 20:52	EPA200.7		AES
Potassium*	15.5	2.00	0.355	mg/L	2	12/20/22 20:52	EPA200.7		AES
Sodium*	106	2.00	0.152	mg/L	2	12/20/22 20:52	EPA200.7		AES

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Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

MW #6

2212191-05 (Ground Water)									
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	369	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Total as CaCO3*	369	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Bromide	< 0.100	0.100	0.0274	mg/L	1	12/22/22 14:04	EPA300.0		AES
Chloride*	4.85	1.00	0.0555	mg/L	1	12/22/22 14:04	EPA300.0		AES
Conductivity*	849	1.00		umho/cm@25 C	1	12/15/22 16:38	2510 B		AWG
Fluoride*	0.554	0.100	0.00971	mg/L	1	12/22/22 14:04	EPA300.0		AES
Nitrate as N*	0.432	0.020	0.007	mg/L	1	12/15/22 17:33	EPA300.0		AES
Nitrite as N*	< 0.020	0.020	0.004	mg/L	1	12/15/22 17:33	EPA300.0		AES
Ortho-Phosphate as P	< 0.0500	0.0500	0.0104	mg/L	1	12/15/22 17:33	EPA300.0		AES
pH*	7.17			pH Units	1	12/15/22 16:38	EPA150.1		AWG
pH Temperature, degrees C	17.2			pH Units	1	12/15/22 16:38	EPA150.1		AWG
Total Dissolved Solids*	495	10.0		mg/L	1	12/19/22 15:32	EPA160.1		AWG
Sulfate*	84.1	1.00	0.124	mg/L	1	12/22/22 14:04	EPA300.0		AES
Total Recoverable Metals by ICP (E200.	7)								
Calcium*	132	0.100	0.038	mg/L	1	12/20/22 20:56	EPA200.7		AES
Magnesium*	14.4	0.100	0.030	mg/L	1	12/20/22 20:56	EPA200.7		AES
Potassium*	1.40	1.00	0.178	mg/L	1	12/20/22 20:56	EPA200.7		AES
Sodium*	31.8	1.00	0.076	mg/L	1	12/20/22 20:56	EPA200.7		AES

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Cottonwood	Consulting	Project: Cottonwood	
PO Box 165	3	Project Name / Number: GCU #170	Reported:
Durango CO	, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

MW #7

		2212191	l-06 (Grou	nd Water)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	217	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Total as CaCO3*	217	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Bromide	0.208	0.200	0.0548	mg/L	2	12/22/22 14:25	EPA300.0		AES
Chloride*	15.6	2.00	0.111	mg/L	2	12/22/22 14:25	EPA300.0		AES
Conductivity*	1860	1.00		umho/cm@25 C	1	12/15/22 16:38	2510 B		AWG
Fluoride*	0.588	0.200	0.0194	mg/L	2	12/22/22 14:25	EPA300.0		AES
Nitrate as N*	0.410	0.040	0.014	mg/L	2	12/15/22 17:52	EPA300.0		AES
Nitrite as N*	< 0.040	0.040	0.008	mg/L	2	12/15/22 17:52	EPA300.0		AES
Ortho-Phosphate as P	< 0.100	0.100	0.0209	mg/L	2	12/15/22 17:52	EPA300.0		AES
pH*	7.15			pH Units	1	12/15/22 16:38	EPA150.1		AWG
pH Temperature, degrees C	16.7			pH Units	1	12/15/22 16:38	EPA150.1		AWG
Total Dissolved Solids*	1440	10.0		mg/L	1	12/19/22 15:34	EPA160.1		AWG
Sulfate*	857	20.0	2.48	mg/L	20	12/22/22 14:46	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7)									
Calcium*	308	0.200	0.077	mg/L	2	12/20/22 21:04	EPA200.7		AES
Magnesium*	29.5	0.200	0.059	mg/L	2	12/20/22 21:04	EPA200.7		AES
Potassium*	2.74	2.00	0.355	mg/L	2	12/20/22 21:04	EPA200.7		AES
Sodium*	87.6	2.00	0.152	mg/L	2	12/20/22 21:04	EPA200.7		AES

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Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

MW #8

		2212191	l-07 (Grou	nd Water)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	192	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Total as CaCO3*	192	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Bromide	< 0.200	0.200	0.0548	mg/L	2	12/22/22 15:07	EPA300.0		AES
Chloride*	8.26	2.00	0.111	mg/L	2	12/22/22 15:07	EPA300.0		AES
Conductivity*	2090	1.00		umho/cm@25 C	1	12/15/22 16:38	2510 B		AWG
Fluoride*	0.582	0.200	0.0194	mg/L	2	12/22/22 15:07	EPA300.0		AES
Nitrate as N*	0.878	0.040	0.014	mg/L	2	12/15/22 18:48	EPA300.0		AES
Nitrite as N*	< 0.040	0.040	0.008	mg/L	2	12/15/22 18:48	EPA300.0		AES
Ortho-Phosphate as P	< 0.100	0.100	0.0209	mg/L	2	12/15/22 18:48	EPA300.0		AES
pH*	7.32			pH Units	1	12/15/22 16:38	EPA150.1		AWG
pH Temperature, degrees C	16.7			pH Units	1	12/15/22 16:38	EPA150.1		AWG
Total Dissolved Solids*	1720	10.0		mg/L	1	12/19/22 15:36	EPA160.1		AWG
Sulfate*	1080	20.0	2.48	mg/L	20	12/22/22 16:09	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7)									
Calcium*	375	0.200	0.077	mg/L	2	12/20/22 21:08	EPA200.7		AES
Magnesium*	31.5	0.200	0.059	mg/L	2	12/20/22 21:08	EPA200.7		AES
Potassium*	3.35	2.00	0.355	mg/L	2	12/20/22 21:08	EPA200.7		AES
Sodium*	74.0	2.00	0.152	mg/L	2	12/20/22 21:08	EPA200.7		AES

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Cottonwood	Consulting	Project: Cottonwood	
PO Box 165	3	Project Name / Number: GCU #170	Reported:
Durango CO	, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

MW #9

		221219	1-08 (Grou	ind Water)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	324	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Alkalinity, Total as CaCO3*	324	10.0	2.27	mg/L	1	12/21/22 14:00	2320 B		AWG
Bromide	< 0.100	0.100	0.0274	mg/L	1	12/22/22 16:30	EPA300.0		AES
Chloride*	18.0	1.00	0.0555	mg/L	1	12/22/22 16:30	EPA300.0		AES
Conductivity*	1170	1.00		umho/cm@25 C	1	12/15/22 16:38	2510 B		AWG
Fluoride*	0.499	0.100	0.00971	mg/L	1	12/22/22 16:30	EPA300.0		AES
Nitrate as N*	1.12	0.020	0.007	mg/L	1	12/15/22 19:07	EPA300.0		AES
Nitrite as N*	< 0.020	0.020	0.004	mg/L	1	12/15/22 19:07	EPA300.0		AES
Ortho-Phosphate as P	< 0.0500	0.0500	0.0104	mg/L	1	12/15/22 19:07	EPA300.0		AES
pH*	7.32			pH Units	1	12/15/22 16:38	EPA150.1		AWG
pH Temperature, degrees C	17.0			pH Units	1	12/15/22 16:38	EPA150.1		AWG
Total Dissolved Solids*	775	10.0		mg/L	1	12/19/22 15:38	EPA160.1		AWG
Sulfate*	281	10.0	1.24	mg/L	10	12/23/22 01:34	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7)									
Calcium*	158	0.200	0.077	mg/L	2	12/20/22 21:13	EPA200.7		AES
Magnesium*	17.9	0.200	0.059	mg/L	2	12/20/22 21:13	EPA200.7		AES
Potassium*	2.31	2.00	0.355	mg/L	2	12/20/22 21:13	EPA200.7		AES
Sodium*	70.1	2.00	0.152	mg/L	2	12/20/22 21:13	EPA200.7		AES

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	•
Project: Cottonwood	
Project Name / Number: GCU #170	Reported:
Project Manager: Kyle Siesser	01/03/23 17:10
	Project Name / Number: GCU #170

General Chemistry - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B223544 - IC- Ion Chromatograph										
Blank (B223544-BLK1)			Prep	ared & Anal	lyzed: 12/15	5/22				
Nitrate as N	ND	0.020	mg/L							
Nitrite as N	ND	0.020	mg/L							
Ortho-Phosphate as P	ND	0.0500	mg/L							
LCS (B223544-BS1)			Prep	ared & Anal	lyzed: 12/15	5/22				
Nitrate as N	1.04	0.020	mg/L	1.00		104	90-110			
Nitrite as N	0.996	0.020	mg/L	1.00		99.6	90-110			
Ortho-Phosphate as P	1.04	0.0500	mg/L	1.00		104	90-110			
LCS Dup (B223544-BSD1)			Prep	ared & Anal	lyzed: 12/15	5/22				
Nitrate as N	1.05	0.020	mg/L	1.00		105	90-110	0.498	20	
Nitrite as N	1.00	0.020	mg/L	1.00		100	90-110	0.920	20	
Ortho-Phosphate as P	1.03	0.0500	mg/L	1.00		103	90-110	1.25	20	
Batch B223563 - General Prep - Wet Chem										
Blank (B223563-BLK1)			Prep	ared & Anal	lyzed: 12/19	9/22				
Total Dissolved Solids	ND	10.0	mg/L							
Blank (B223563-BLK2)			Prep	ared & Anal	lyzed: 12/19	9/22				
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B223563-SRM1)			Prep	ared & Anal	lyzed: 12/19	9/22				
Total Dissolved Solids	405	10.0	mg/L	450	•	90.0	85-115			
Reference (B223563-SRM2)			Prep	ared & Anal	lyzed: 12/19	9/22				
Total Dissolved Solids	430	10.0	mg/L	450	<i>,</i>	95.6	85-115			
Batch B223598 - General Prep - Wet Chem										
Blank (B223598-BLK1)			Pren	ared & Anal	lvzed: 12/21	1/22				
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L		-,					
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Total as CaCO3	ND	10.0	mg/L							
LCS (B223598-BS1)			Pren	ared & Anal	lvzed: 12/21	1/22				
Alkalinity, Total as CaCO3	95.0	10.0	mg/L	100	-,	95.0	85-115			
LCS Dup (B223598-BSD1)			-	ared & Anal	lyzed · 12/21	1/22				
Alkalinity, Total as CaCO3	100	10.0	mg/L	100	1yzcu. 12/2	1/22	85-115	5.13	20	
Green Analytical Laboratories	100	10.0		sults in this re	port apply to t					

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Laboratories							v	www.Gre	enAnalytica	ll.com
Cottonwood Consulting		F	Project: Cotto	onwood						
PO Box 1653	Project Name / Number: GCU #170								Report	ed:
Durango CO, 81302		Project Ma	anager: Kyle	Siesser					01/03/23	17:10
	G	eneral Che	mistry - Q (Continue	-	ontrol					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Note
Batch B223602 - General Prep - Wet Chem										
eference (B223602-SRM1)			Prepa	red & Ana	lyzed: 12/1	5/22				
pH	7.09		pH Units	7.00		101	98.57-101.42			
atch B223604 - General Prep - Wet Chem										
eference (B223604-SRM1)			Prepa	red & Ana	lyzed: 12/1;	5/22				
Conductivity	1020	1.00	umho/cm@2 5C	1000		102	90-110			
Batch B223613 - IC- Ion Chromatograph										
lank (B223613-BLK1)			1	red & Ana	lyzed: 12/2	1/22				
Bromide	ND	0.100	mg/L							
Chloride	ND	1.00	mg/L mg/I							
Fluoride Sulfate	ND ND	0.100	mg/L mg/I							
	ND	1.00	mg/L		L	1/22				
CS (B223613-BS1)	2.20	0.100			lyzed: 12/2		00.110			
Bromide	2.38	0.100	mg/L	2.50		95.2	90-110			
Chloride Fluoride	24.7 2.42	1.00	mg/L	25.0		98.7	90-110			
Sulfate	2.42	0.100 1.00	mg/L mg/L	2.50 25.0		96.8 97.3	90-110 90-110			
CS Dup (B223613-BSD1)			Prepa	red & Ana	lyzed: 12/2	1/22				
Bromide	2.40	0.100	mg/L	2.50		95.8	90-110	0.586	20	
Chloride	24.8	1.00	mg/L	25.0		99.4	90-110	0.642	20	
Fluoride	2.44	0.100	mg/L	2.50		97.6	90-110	0.864	20	
Sulfate	24.5	1.00	mg/L	25.0		97.9	90-110	0.656	20	
atch B223618 - IC- Ion Chromatograph										
lank (B223618-BLK1)				red & Ana	lyzed: 12/22	2/22				
Bromide	ND	0.100	mg/L							
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
CS (B223618-BS1)					lyzed: 12/22					
Bromide	2.42	0.100	mg/L	2.50		96.7	90-110			
Chloride	24.8	1.00	mg/L	25.0		99.3	90-110			
Fluoride	2.50	0.100	mg/L	2.50		99.9	90-110			
Sulfate	24.4	1.00	mg/L	25.0		97.4	90-110			
.CS Dup (B223618-BSD1)			Prepa	red & Ana	lyzed: 12/22	2/22				
Green Analytical Laboratories						-	analyzed in accor			
Jerry D. all			shall G	een Analytic	al Laboratorie	s be liable f	t be reproduced ir for incidental or c	onsequentia	al damages.	
yeren D. all				-		-	or any claim arisi	-		

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		-
Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

General Chemistry - Quality Control (Continued)

	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
]	Batch B223618 - IC- Ion Chromatograph	(Continued)									

LCS Dup (B223618-BSD1) (Continued)			Prep	ared & Analyze	ed: 12/22/22				
Bromide	2.42	0.100	mg/L	2.50	96.7	90-110	0.0414	20	
Chloride	24.8	1.00	mg/L	25.0	99.2	90-110	0.0363	20	
Fluoride	2.50	0.100	mg/L	2.50	100	90-110	0.0801	20	
Sulfate	24.4	1.00	mg/L	25.0	97.6	90-110	0.172	20	

Total Recoverable Metals by ICP (E200.7) - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B223585 - Total Recoverable by ICP										
Blank (B223585-BLK1)			Prep	ared: 12/19/	'22 Analyze	ed: 12/20/2	2			
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B223585-BS1)			Prep	ared: 12/19/	22 Analyze	ed: 12/20/2	2			
Calcium	1.99	0.100	mg/L	2.00		99.5	85-115			
Magnesium	10.3	0.100	mg/L	10.0		103	85-115			
Potassium	4.06	1.00	mg/L	4.00		102	85-115			
Sodium	1.75	1.00	mg/L	1.62		108	85-115			
LCS Dup (B223585-BSD1)			Prep	ared: 12/19/	22 Analyze	ed: 12/20/2	2			
Calcium	1.97	0.100	mg/L	2.00		98.6	85-115	0.928	20	
Magnesium	10.2	0.100	mg/L	10.0		102	85-115	0.258	20	
Potassium	4.17	1.00	mg/L	4.00		104	85-115	2.62	20	
Sodium	1.76	1.00	mg/L	1.62		109	85-115	0.637	20	

Green Analytical Laboratories

Jerry S. all

Jeremy D Allen, Laboratory Director Released to Imaging: 9/12/2023 2:21:39 PM



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Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	01/03/23 17:10

Notes and Definitions

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 *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Jerry S. all

Jeremy D Allen, Laboratory Director Released to Imaging: 9/12/2023 2:21:39 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cottonwood Consulting LLC			Bill to (if different):):	ANALYSIS REQUEST
Project Manager: Kyle Siesser		19 19	P.O. #:		
Address: PO Box 1653			Company:		
City: Durango	State: CO	Zip: 81302	Attn:		
764-7356	otton	voodconsultir			
Additional Report To:					
Project Name: GCU #170			State: Zip:		
Project Number:			#		
Sampler Name (Print): Emma Millar			Fax or Email:		
FOR LAB USE ONLY		Collected	Matrix (check one)	# of containers S	
			TER TER TER TER		
Lab I.D. Sample Name or Location	ocation	Date	ROUNDWA URFACEWA VASTEWATE RODUCEDW/ OIL DTHER : o preservation (g INO3	₂SO₄ other: other: see attac	
-01 MW #2A	<i>àı</i>	£	× · · · · · · · · · · · · · · · · · · ·	(
-02 MW #3A	1		×	×	
-03 MW #4A			1525 X 3	×	
5# MM 72		6	×	×	
05 MW #0		16	×	×	
-06 ME #7		31	1220 X 321	×	
07 M& #8		15	1222 X 3	×	
6# MM 80-		4		×	
PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for n by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, ts	hether based in contract or for il or consequental damages, ir	, shall be limited to the a cluding without limitation	mount paid by the client for the analyses. All claims including those for n business interruptions, loss of use, or loss of profits incurred by client, ts	egligence and any other subsidiaries, affiliates or	cause whatsoever shall be deemed walved unless made in writing and receiver successors arising out of or related to the performance of services hereunder
Relinguished By:	Date:	Received By:	de Surper	DITIONAL	Report to State? (Circle) Yes No
Relinquished By:		Received By:			
	Time:				
Delivered By: (Circle One) Sampler) UPS - FedEx - Kangaroo - Other:	mla	Pauler	Temperature at reciept: CHECKED BY:		

Received by OCD: 2/16/2023 1:06:17 PM Relinquished By: Delivered By: Sampler UPS - Fed



EPA METHOD 300.0: ANIONS

- Fluoride
- Chloride
- Nitrogen, Nitrite (As N)
- Bromide
- Nitrogen, Nitrate (As N)
- Phosphorus, Orthophosphate (As P)
- Sulfate

EPA METHOD 200.7: METALS

- * Calcium
- Magnesium
- Potassium
- Sodium

SM2510B: SPECIFIC CONDUCTANCE

Conductivity

SM4500-H+B / 9040C: PH

• pH

SM2320B: ALKALINITY

- Bicarbonate (As CaCO3)
- Carbonate (As CaCO3)
- Total Alkalinity (as CaCO3)

SM2540C MOD: TOTAL DISSOLVED SOLIDS

Total Dissolved Solids

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 187249

CONDITIONS

Operator:	OGRID:
SIMCOE LLC	329736
1199 Main Ave., Suite 101	Action Number:
Durango, CO 81301	187249
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By		Condition Date
michael.buchanan	Review of the Gallegos Canyon Unit 170 2022 Monitoring Report: Content Satisfactory 1. Continue to groundwater monitor as prescribed by NMOCD 2. Submit the 2023 Annual Report on or before April 1, 2024.	9/12/2023