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25 June 2024

Kyle Siesser Cottonwood Consulting PO Box 1653 Durango, CO 81302 RE: GCU #170

Enclosed are the results of analyses for samples received by the laboratory on 06/13/24 09:20. 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,

Nermica & nulls

Veronica Wells 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 <a href="http://greenanalytical.com/certifications/">http://greenanalytical.com/certifications/</a>

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: TX-C24-00019

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: TX-C24-00112

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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	06/25/24 16:51

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2A	2406169-01	Water	06/12/24 11:55	06/13/24 09:20	
MW #3A	2406169-02	Water	06/12/24 12:05	06/13/24 09:20	
MW #4A	2406169-03	Water	06/12/24 12:55	06/13/24 09:20	
MW #5	2406169-04	Water	06/12/24 11:00	06/13/24 09:20	
MW #6	2406169-05	Water	06/12/24 12:15	06/13/24 09:20	
MW #7	2406169-06	Water	06/12/24 11:25	06/13/24 09:20	
MW #8	2406169-07	Water	06/12/24 11:10	06/13/24 09:20	
MW #9	2406169-08	Water	06/12/24 11:35	06/13/24 09:20	

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Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM



Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/25/24 16:51

### MW #2A

## 2406169-01 (Ground Water) Sampled Date: 06/12/24 11:55

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	560	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	560	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Bromide	1.92	0.100	0.0274	mg/L	1	06/17/24 21:45	EPA300.0		AWG
Chloride*	150	1.00	0.0555	mg/L	1	06/17/24 21:45	EPA300.0		AWG
Conductivity*	3730	1.00		umho/cm@25 C	1	06/14/24 10:40	2510 B		AES
Fluoride*	0.951	0.100	0.00971	mg/L	1	06/17/24 21:45	EPA300.0		AWG
Nitrate as N*	0.031	0.020	0.008	mg/L	1	06/13/24 17:12	EPA300.0		AWG
Nitrate+Nitrite as N by IC	< 0.0400	0.0400	0.0104	mg/L	1	06/13/24 17:12	EPA300.0		AWG
Nitrite as N*	< 0.020	0.020	0.003	mg/L	1	06/13/24 17:12	EPA300.0	M5	AWG
Ortho-Phosphate as P*	< 0.0500	0.0500	0.0291	mg/L	1	06/13/24 17:12	EPA300.0		AWG
pH*	6.97			pH Units	1	06/14/24 10:40	EPA150.1		AES
pH Temperature, degrees C	19.9			pH Units	1	06/14/24 10:40	EPA150.1		AES
Sulfate*	1580	20.0	2.48	mg/L	20	06/20/24 05:22	EPA300.0		AWG
Total Dissolved Solids*	3090	10.0		mg/L	1	06/18/24 16:11	EPA160.1		HIC
Total Recoverable Metals by ICP (E200.7	()								
Calcium*	320	0.200	0.115	mg/L	1	06/20/24 14:52	EPA200.7		AWG
Magnesium*	99.3	0.100	0.038	mg/L	1	06/20/24 14:52	EPA200.7		AWG
Potassium*	3.09	1.00	0.106	mg/L	1	06/20/24 14:52	EPA200.7		AWG
Sodium*	567	5.00	1.27	mg/L	5	06/21/24 12:18	EPA200.7		AWG

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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	06/25/24 16:51

### **MW #3A**

## 2406169-02 (Ground Water) Sampled Date: 06/12/24 12:05

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	335	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	335	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Bromide	0.492	0.200	0.0548	mg/L	2	06/19/24 13:06	EPA300.0		AWG
Chloride*	34.5	2.00	0.111	mg/L	2	06/19/24 13:06	EPA300.0		AWG
Conductivity*	1890	1.00		umho/cm@25 C	1	06/14/24 10:40	2510 B		AES
Fluoride*	0.772	0.200	0.0194	mg/L	2	06/19/24 13:06	EPA300.0		AWG
Nitrate as N*	6.18	0.200	0.077	mg/L	10	06/14/24 11:12	EPA300.0		AWG
Nitrate+Nitrite as N by IC	6.18	0.220	0.0797	mg/L	10	06/14/24 11:12	EPA300.0		AWG
Nitrite as N*	< 0.020	0.020	0.003	mg/L	1	06/13/24 18:09	EPA300.0		AWG
Ortho-Phosphate as P*	< 0.0500	0.0500	0.0291	mg/L	1	06/13/24 18:09	EPA300.0		AWG
pH*	7.16			pH Units	1	06/14/24 10:40	EPA150.1		AES
pH Temperature, degrees C	19.9			pH Units	1	06/14/24 10:40	EPA150.1		AES
Sulfate*	791	10.0	1.24	mg/L	10	06/20/24 10:38	EPA300.0		AWG
Total Dissolved Solids*	1610	10.0		mg/L	1	06/18/24 16:13	EPA160.1		HIC
Total Recoverable Metals by ICP (E200.	7)								
Calcium*	293	0.200	0.115	mg/L	1	06/20/24 14:56	EPA200.7		AWG
Magnesium*	37.3	0.100	0.038	mg/L	1	06/20/24 14:56	EPA200.7		AWG
Potassium*	5.05	1.00	0.106	mg/L	1	06/20/24 14:56	EPA200.7		AWG
Sodium*	107	1.00	0.254	mg/L	1	06/20/24 14:56	EPA200.7		AWG

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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	06/25/24 16:51

### **MW #4A**

### 2406169-03 (Ground Water) Sampled Date: 06/12/24 12:55

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	455	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	455	10.0	8.00	mg/L	5	06/25/24 12:30	2320 B		HIC
Bromide	0.506	0.200	0.0548	mg/L	2	06/19/24 13:46	EPA300.0		AWG
Chloride*	36.0	2.00	0.111	mg/L	2	06/19/24 13:46	EPA300.0		AWG
Conductivity*	1640	1.00		umho/cm@25 C	1	06/14/24 10:40	2510 B		AES
Fluoride*	0.906	0.200	0.0194	mg/L	2	06/19/24 13:46	EPA300.0		AWG
Nitrate as N*	0.109	0.020	0.008	mg/L	1	06/13/24 19:05	EPA300.0		AWG
Nitrate+Nitrite as N by IC	0.109	0.0400	0.0104	mg/L	1	06/13/24 19:05	EPA300.0		AWG
Nitrite as N*	< 0.020	0.020	0.003	mg/L	1	06/13/24 19:05	EPA300.0		AWG
Ortho-Phosphate as P*	< 0.0500	0.0500	0.0291	mg/L	1	06/13/24 19:05	EPA300.0		AWG
pH*	7.12			pH Units	1	06/14/24 10:40	EPA150.1		AES
pH Temperature, degrees C	19.7			pH Units	1	06/14/24 10:40	EPA150.1		AES
Sulfate*	1180	10.0	1.24	mg/L	10	06/20/24 05:42	EPA300.0		staff
Total Dissolved Solids*	2200	10.0		mg/L	1	06/18/24 16:15	EPA160.1		HIC
Total Recoverable Metals by ICP (E200	.7)								
Calcium*	337	0.200	0.115	mg/L	1	06/20/24 14:59	EPA200.7		AWG
Magnesium*	61.0	0.100	0.038	mg/L	1	06/20/24 15:00	EPA200.7		AWG
Potassium*	11.1	1.00	0.106	mg/L	1	06/20/24 15:00	EPA200.7		AWG
Sodium*	171	1.00	0.254	mg/L	1	06/20/24 14:59	EPA200.7		AWG

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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	06/25/24 16:51

## 2406169-04 (Ground Water) Sampled Date: 06/12/24 11:00

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	335	10.0	8.00	mg/L	1	06/24/24 15:45	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	1	06/24/24 15:45	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	1	06/24/24 15:45	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	335	10.0	8.00	mg/L	1	06/24/24 15:45	2320 B		HIC
Bromide	< 0.200	0.200	0.0548	mg/L	2	06/19/24 14:26	EPA300.0		AWG
Chloride*	17.3	2.00	0.111	mg/L	2	06/19/24 14:26	EPA300.0		AWG
Conductivity*	1760	1.00		umho/cm@25 C	1	06/14/24 10:40	2510 B		AES
Fluoride*	0.440	0.200	0.0194	mg/L	2	06/19/24 14:26	EPA300.0		AWG
Nitrate as N*	5.24	0.200	0.077	mg/L	10	06/14/24 09:38	EPA300.0		AWG
Nitrate+Nitrite as N by IC	5.24	0.220	0.0797	mg/L	10	06/14/24 09:38	EPA300.0		AWG
Nitrite as N*	< 0.020	0.020	0.003	mg/L	1	06/13/24 19:24	EPA300.0		AWG
Ortho-Phosphate as P*	< 0.0500	0.0500	0.0291	mg/L	1	06/13/24 19:24	EPA300.0		AWG
pH*	7.21			pH Units	1	06/14/24 10:40	EPA150.1		AES
pH Temperature, degrees C	19.7			pH Units	1	06/14/24 10:40	EPA150.1		AES
Sulfate*	822	5.00	0.620	mg/L	5	06/19/24 15:26	EPA300.0		AWG
Total Dissolved Solids*	1540	10.0		mg/L	1	06/18/24 16:17	EPA160.1		HIC
Total Recoverable Metals by ICP (E200.	7)								
Calcium*	316	0.200	0.115	mg/L	1	06/20/24 15:03	EPA200.7		AWG
Magnesium*	38.4	0.100	0.038	mg/L	1	06/20/24 15:03	EPA200.7		AWG
Potassium*	17.9	1.00	0.106	mg/L	1	06/20/24 15:03	EPA200.7		AWG
Sodium*	86.8	1.00	0.254	mg/L	1	06/20/24 15:03	EPA200.7		AWG

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Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM



Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/25/24 16:51

# 2406169-05 (Ground Water) Sampled Date: 06/12/24 12:15

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	465	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	465	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Bromide	< 0.100	0.100	0.0274	mg/L	1	06/19/24 15:45	EPA300.0		AWG
Chloride*	8.38	1.00	0.0555	mg/L	1	06/19/24 15:45	EPA300.0		AWG
Conductivity*	934	1.00		umho/cm@25 C	1	06/14/24 10:40	2510 B		AES
Fluoride*	0.562	0.100	0.00971	mg/L	1	06/19/24 15:45	EPA300.0		AWG
Nitrate as N*	0.205	0.020	0.008	mg/L	1	06/13/24 19:43	EPA300.0		AWG
Nitrate+Nitrite as N by IC	0.205	0.0400	0.0104	mg/L	1	06/13/24 19:43	EPA300.0		AWG
Nitrite as N*	< 0.020	0.020	0.003	mg/L	1	06/13/24 19:43	EPA300.0		AWG
Ortho-Phosphate as P*	< 0.0500	0.0500	0.0291	mg/L	1	06/13/24 19:43	EPA300.0		AWG
pH*	7.11			pH Units	1	06/14/24 10:40	EPA150.1		AES
pH Temperature, degrees C	19.9			pH Units	1	06/14/24 10:40	EPA150.1		AES
Sulfate*	121	1.00	0.124	mg/L	1	06/19/24 15:45	EPA300.0		AWG
Total Dissolved Solids*	635	10.0		mg/L	1	06/18/24 16:19	EPA160.1		HIC
Total Recoverable Metals by ICP (E200.7)	)								
Calcium*	157	0.200	0.115	mg/L	1	06/20/24 15:07	EPA200.7		AWG
Magnesium*	17.0	0.100	0.038	mg/L	1	06/20/24 15:07	EPA200.7		AWG
Potassium*	2.39	1.00	0.106	mg/L	1	06/20/24 15:07	EPA200.7		AWG
Sodium*	39.0	1.00	0.254	mg/L	1	06/20/24 15:07	EPA200.7		AWG

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Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM



Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/25/24 16:51

### 2406169-06 (Ground Water) Sampled Date: 06/12/24 11:25

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	380	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	380	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Bromide	0.324	0.200	0.0548	mg/L	2	06/19/24 16:05	EPA300.0		AWG
Chloride*	18.0	2.00	0.111	mg/L	2	06/19/24 16:05	EPA300.0		AWG
Conductivity*	1300	1.00		umho/cm@25 C	1	06/14/24 10:40	2510 B		AES
Fluoride*	0.660	0.200	0.0194	mg/L	2	06/19/24 16:05	EPA300.0		AWG
Nitrate as N*	0.362	0.020	0.008	mg/L	1	06/13/24 20:02	EPA300.0		AWG
Nitrate+Nitrite as N by IC	0.362	0.0400	0.0104	mg/L	1	06/13/24 20:02	EPA300.0		AWG
Nitrite as N*	< 0.020	0.020	0.003	mg/L	1	06/13/24 20:02	EPA300.0		AWG
Ortho-Phosphate as P*	< 0.0500	0.0500	0.0291	mg/L	1	06/13/24 20:02	EPA300.0		AWG
pH*	7.14			pH Units	1	06/14/24 10:40	EPA150.1		AES
pH Temperature, degrees C	19.8			pH Units	1	06/14/24 10:40	EPA150.1		AES
Sulfate*	421	10.0	1.24	mg/L	10	06/20/24 10:57	EPA300.0		AWG
Total Dissolved Solids*	1010	10.0		mg/L	1	06/18/24 16:21	EPA160.1		HIC
Total Recoverable Metals by ICP (E200.	7)								
Calcium*	223	0.200	0.115	mg/L	1	06/20/24 15:09	EPA200.7		AWG
Magnesium*	26.4	0.100	0.038	mg/L	1	06/20/24 15:09	EPA200.7		AWG
Potassium*	3.02	1.00	0.106	mg/L	1	06/20/24 15:09	EPA200.7		AWG
Sodium*	86.6	1.00	0.254	mg/L	1	06/20/24 15:09	EPA200.7		AWG

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Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM



Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/25/24 16:51

# 2406169-07 (Ground Water) Sampled Date: 06/12/24 11:10

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	230	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	230	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Bromide	< 0.200	0.200	0.0548	mg/L	2	06/19/24 16:25	EPA300.0		AWG
Chloride*	8.38	2.00	0.111	mg/L	2	06/19/24 16:25	EPA300.0		AWG
Conductivity*	1980	1.00	1	umho/cm@25 C	1	06/14/24 10:40	2510 B		AES
Fluoride*	0.658	0.200	0.0194	mg/L	2	06/19/24 16:25	EPA300.0		AWG
Nitrate as N*	2.28	0.200	0.077	mg/L	10	06/14/24 09:57	EPA300.0		AWG
Nitrate+Nitrite as N by IC	2.28	0.220	0.0797	mg/L	10	06/14/24 09:57	EPA300.0		AWG
Nitrite as N*	< 0.020	0.020	0.003	mg/L	1	06/13/24 20:21	EPA300.0		AWG
Ortho-Phosphate as P*	< 0.0500	0.0500	0.0291	mg/L	1	06/13/24 20:21	EPA300.0		AWG
pH*	7.16			pH Units	1	06/14/24 10:40	EPA150.1		AES
pH Temperature, degrees C	20.5			pH Units	1	06/14/24 10:40	EPA150.1		AES
Sulfate*	1030	10.0	1.24	mg/L	10	06/20/24 11:17	EPA300.0		AWG
Total Dissolved Solids*	1740	10.0		mg/L	1	06/18/24 16:23	EPA160.1		HIC
Total Recoverable Metals by ICP (E200	.7)								
Calcium*	371	0.200	0.115	mg/L	1	06/20/24 15:13	EPA200.7		AWG
Magnesium*	34.7	0.100	0.038	mg/L	1	06/20/24 15:13	EPA200.7		AWG
Potassium*	6.36	1.00	0.106	mg/L	1	06/20/24 15:13	EPA200.7		AWG
Sodium*	102	1.00	0.254	mg/L	1	06/20/24 15:13	EPA200.7		AWG

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Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM



Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/25/24 16:51

### 2406169-08 (Ground Water) Sampled Date: 06/12/24 11:35

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	410	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	410	10.0	8.00	mg/L	5	06/24/24 15:45	2320 B		HIC
Bromide	< 0.200	0.200	0.0548	mg/L	2	06/19/24 17:05	EPA300.0		AWG
Chloride*	16.3	2.00	0.111	mg/L	2	06/19/24 17:05	EPA300.0		AWG
Conductivity*	1110	1.00		umho/cm@25 C	1	06/14/24 10:40	2510 B		AES
Fluoride*	0.512	0.200	0.0194	mg/L	2	06/19/24 17:05	EPA300.0		AWG
Nitrate as N*	0.263	0.020	0.008	mg/L	1	06/13/24 20:40	EPA300.0		AWG
Nitrate+Nitrite as N by IC	0.262	0.0400	0.0104	mg/L	1	06/13/24 20:40	EPA300.0		AWG
Nitrite as N*	< 0.020	0.020	0.003	mg/L	1	06/13/24 20:40	EPA300.0		AWG
Ortho-Phosphate as P*	< 0.0500	0.0500	0.0291	mg/L	1	06/13/24 20:40	EPA300.0		AWG
pH*	7.31			pH Units	1	06/14/24 10:40	EPA150.1		AES
pH Temperature, degrees C	20.9			pH Units	1	06/14/24 10:40	EPA150.1		AES
Sulfate*	248	2.00	0.248	mg/L	2	06/19/24 17:05	EPA300.0		AWG
Total Dissolved Solids*	785	10.0		mg/L	1	06/18/24 16:25	EPA160.1		HIC
Total Recoverable Metals by ICP (E200.	.7)								
Calcium*	171	0.200	0.115	mg/L	1	06/20/24 15:17	EPA200.7		AWG
Magnesium*	21.6	0.100	0.038	mg/L	1	06/20/24 15:17	EPA200.7		AWG
Potassium*	5.32	1.00	0.106	mg/L	1	06/20/24 15:17	EPA200.7		AWG
Sodium*	74.9	1.00	0.254	mg/L	1	06/20/24 15:17	EPA200.7		AWG

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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	06/25/24 16:51

### **General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B241638 - IC- Ion Chromatograph	Result	Linit	Units	Level	Kesuit	70KEC	Linits	KF D	Liiiit	Notes	
Blank (B241638-BLK1)				ared & Anal	yzed: 06/13	3/24					
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 (B241638-BS1)			Prep	ared & Anal	yzed: 06/13	3/24					
Nitrate as N	1.01	0.020	mg/L	1.00		101	90-110				
Nitrite as N	0.952	0.020	mg/L	1.00		95.2	90-110				
Ortho-Phosphate as P	0.988	0.0500	mg/L	1.00		98.8	90-110				
LCS Dup (B241638-BSD1)			Prep	ared & Anal	yzed: 06/13	3/24					
Nitrate as N	1.01	0.020	mg/L	1.00		101	90-110	0.743	20		
Nitrite as N	0.947	0.020	mg/L	1.00		94.7	90-110	0.474	20		
Ortho-Phosphate as P	0.989	0.0500	mg/L	1.00		98.9	90-110	0.111	20		
Batch B241658 - IC- Ion Chromatograph											
Blank (B241658-BLK1)	Prepared & Analyzed: 06/17/24										
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 (B241658-BS1)			Prep	ared & Anal	yzed: 06/17	7/24					
Bromide	2.47	0.100	mg/L	2.50		99.0	90-110				
Chloride	25.2	1.00	mg/L	25.0		101	90-110				
Fluoride	2.61	0.100	mg/L	2.50		104	90-110				
Sulfate	25.1	1.00	mg/L	25.0		100	90-110				
LCS Dup (B241658-BSD1)			Prep	ared & Anal	yzed: 06/17	7/24					
Bromide	2.46	0.100	mg/L	2.50		98.3	90-110	0.649	20		
Chloride	25.0	1.00	mg/L	25.0		100	90-110	0.638	20		
Fluoride	2.59	0.100	mg/L	2.50		103	90-110	0.809	20		
Sulfate	24.8	1.00	mg/L	25.0		99.2	90-110	1.03	20		
Suitate											
Batch B241670 - General Prep - Wet Chem											

Reference (B241670-SRM1)		Prepar	ed & Analyz	zed: 06/14/24	
pH	7.00	pH Units	7.00	100	
Batch B241673 - General Prep - Wet Chem					

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Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM 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. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 12 of 19 2406169 GAL FINAL 06 25 24 1651 06/25/24 16:51:47



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Pro	ject Name / Nu	mber: GC	U #170	etals,Wet Cl	nem			•		
No Box 1653 Durango CO, 81302         Project Manager: Kyle Siesser         Reported: 06/25/24 16:51           Ceneral Chemistry - Quality Control (Continued)         Spike         Source         % REC         R.PD         RPD         Innit         Notes           Innity         Result         Eeporting Lovi         Spike         Source         % REC         Lowid         RPD         Lowid         RPD         Linnit         Notes           ference (B241673-SRM1)         Prepared & Analyzed: 06/17/24 onductivity         Prepared & Analyzed: 06/17/24         General Chemistry - Quality         Project Manager         RPD         Linnit         Notes           ank (B241689-SRM1)         Prepared & Analyzed: 06/17/24         Analyzed: 06/18/24         Control         Control         Control         Source         Source											
		(	Continu	ed)							
Analyte	Result		Units	-		%REC		RPD		Notes	
Reference (B241673-SRM1)			Prep	ared & Anal	lyzed: 06/17	7/24					
Conductivity	943	1.00 u	0	1000		94.3	90-110				
Batch B241689 - General Prep - Wet Chem											
Blank (B241689-BLK1)			Prep	ared: 06/17/	24 Analyz	ed: 06/18/2	4				
Total Dissolved Solids	ND	10.0	mg/L								
Reference (B241689-SRM1)			Pren	ared: 06/17/	24 Analyza	ed: 06/18/2	24				
Total Dissolved Solids	370	10.0	<u> </u>								
Batch B241706 - IC- Ion Chromatograph		- *	č			-	-				
Blank (B241706-BLK1)			Prep	ared: 06/18/	24 Analyz	ed: 06/19/2	4				
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 (B241706-BS1)			Prep	ared: 06/18/	24 Analyzo	ed: 06/19/2	.4				
Bromide	2.39	0.100	mg/L	2.50		95.5	90-110				
Chloride	24.8	1.00	mg/L	25.0		99.2	90-110				
Fluoride	2.56	0.100	mg/L	2.50		102	90-110				
Sulfate	24.6	1.00	mg/L	25.0		98.5	90-110				
LCS Dup (B241706-BSD1)			Prep	ared: 06/18/	24 Analyz	ed: 06/19/2	4				
Bromide	2.40	0.100	mg/L	2.50		95.9	90-110	0.376	20		
Chloride	24.8	1.00	mg/L	25.0		99.1	90-110	0.161	20		
Fluoride	2.56	0.100	mg/L	2.50		102	90-110	0.0391	20		
Sulfate	24.6	1.00	mg/L	25.0		98.4	90-110	0.134	20		
Batch B241775 - General Prep - Wet Chem											
Blank (B241775-BLK1)			Prep	ared & Anal	lyzed: 06/24	4/24					
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L								
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L								
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L								
Alkalinity, Total as CaCO3	ND	10.0	mg/L								
LCS (B241775-BS1)			Prep	ared & Anal	lyzed: 06/24	4/24					
Alkalinity, Total as CaCO3	106	10.0	mg/L	100		106	85-115				
LCS Dup (B241775-BSD1)			Prep	ared & Anal	lyzed: 06/24	4/24					
Alkalinity, Total as CaCO3	106	10.0	mg/L	100	-	106	85-115	0.00	20		
Green Analytical Laboratories			custod	sults in this reply document. T	his analytical	report must	be reproduced	in its entirety	. In no event		
Nermica & NUlles			GALs amour	Green Analytic: liability, and c nt paid by clien whatsoever, sh	clients exclusi at for analyses	ve remedy fo . All claims,	r any claim ari including those	sing, shall be e for negliger	limited to the nee and any oth	er	
Veronica Wells, Project Manager			thirty	days after com	pletion of the	applicable se	ervice.				

Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM



Cottonwood Consulting			5	ons, ICP Me	etals,Wet Cl	nem					
PO Box 1653	Project	Name / Nu	mber: GC	U #170					Report	ed:	
Durango CO, 81302		Project Ma	nager: Kyl	e Siesser					06/25/24 16:51		
	Gene		nistry - ( Continu	Quality Co	ontrol						
			Continu	· ·			WREG				
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B241775 - General Prep - Wet Ch	em (Continued)										
Reference (B241775-SRM1)			Prep	ared & Anal	yzed: 06/24	1/24					
Alkalinity, Total as CaCO3	103	10.0	mg/L	100		103	85-115				
Batch B241776 - General Prep - Wet Ch	em										
Blank (B241776-BLK1)			Prep	ared: 06/24/	24 Analyz	ed: 06/25/2	4				
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L								
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L								
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L								
Alkalinity, Total as CaCO3	ND	10.0	mg/L								
LCS (B241776-BS1)			Prep	ared: 06/24/	24 Analyz	ed: 06/25/2	4				
Alkalinity, Total as CaCO3	103	10.0	mg/L	100		103	85-115				
LCS Dup (B241776-BSD1)			Prep	ared: 06/24/	24 Analyz	ed: 06/25/2	4				
Alkalinity, Total as CaCO3	106	10.0	mg/L	100		106	85-115	2.87	20		
r manney, roar as cacos				1.000	24 4	4. 06/25/2	4				
Reference (B241776-SRM1)			Prep	ared: 06/24/	24 Analyzo	30:00/23/2	4				

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Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM



Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	06/25/24 16:51

### 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 B241663 - Total Recoverable by ICP										
Blank (B241663-BLK1)			Prep	ared: 06/17/	'24 Analyze	ed: 06/20/24	1			
Calcium	ND	0.200	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B241663-BS1)			Prep	ared: 06/17/	24 Analyze	ed: 06/20/24	1			
Calcium	1.94	0.200	mg/L	2.00		97.1	85-115			
Magnesium	10.0	0.100	mg/L	10.0		100	85-115			
Potassium	4.09	1.00	mg/L	4.00		102	85-115			
Sodium	1.51	1.00	mg/L	1.62		93.1	85-115			
LCS Dup (B241663-BSD1)			Prep	ared: 06/17/	24 Analyze	ed: 06/20/24	1			
Calcium	1.98	0.200	mg/L	2.00		98.8	85-115	1.68	20	
Magnesium	10.2	0.100	mg/L	10.0		102	85-115	1.42	20	
Potassium	4.11	1.00	mg/L	4.00		103	85-115	0.594	20	
Sodium	1.53	1.00	mg/L	1.62		94.2	85-115	1.20	20	

### **Notes and Definitions**

M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in 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
	*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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Analysis

Nitrite [IC]

Cottonwood	Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 165	53	Project Name / Number: GCU #170	Reported:
Durango CO	0, 81302	Project Manager: Kyle Siesser	06/25/24 16:51

### **Qualifier Summary**

LabNumber	
2406169-01	

Nitrite as N

Analyte

<u>Qualifier</u> M5 <u>TextBody</u> Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.

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Page of		ble charges.	n I applica	alytical.com ices and all a	greenan e of serv	eptanc	changes to receind By:" as an accord	s. Please email in "Relinquishe	GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.	t GAL * * Chain	
Man () N Lover C	°c	ų		Time:					Time:		
Checked by: On Ice? Therm. used:		Temperature at receipt:		Date:				Received By:	Date:		Relinquished By:
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				Time:		1		1	Time: 1700		my 0
	MARKS:	ADDITIONAL REMARKS	×	Date:			1	Received By:	Date: 6/12/24		Relinquished By:
such claim is based upon any of the above stated reasons or otherwise.	of the above state	ased upon any	claim is b		ardless of	GAL, reg	vices hereunder by (	performance of ser	sors arising out of or related to the	waived unless made in writing and received by CAL, writin our days arise company or use approace an incorrect in the contrast or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether	waived uniess made in writing a
All claims including those for negligence and any other cause whatsoever shall be deemed including without limitation, business interruptions, loss of use, or loss of profits incurred by	hose for negliger tation. business i	tims including t tina without limi	ses. All cla		the client	t paid by	limited to the amoun	act or tort, shall be l	aim arising whether based in contra	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	PLEASE NOTE: GAL's liability
										10)	
										(6	
	Ł		2 -			X	1135	6/12/24		6# MM (8	80
			21			×	1110	6/12/24		7) MW #8	
			21			X	1125	6/12/24		6) MW #7	a.
			21			×	1215	6/12/24		5) MW #6	05
			21		-	X	001	6/12/24		4) MW #5	04
			2-			X	1255	6/12/24		3) MW #4A	
			2			X	1205	6/12/24		2) MW #3A	
	<		21			X	1155	6/12/24		1) MW #2A	
		Sulfuric	Nitric A	DRINKIN SOIL OTHER:	WASTEV PRODUC	GROUN	Time	Date			2400 - 169 Lab Use Only
	S		servation cid nloric Acid	IG WATER	VATER CED WATER	OWATER			or Location	Sample Name or Location	Lab I.D.
	ee	ainers	# of containers		Matrix (check one)	Mat	Collected	Coll			
	Atta			Neede		<u> </u>				Kelsey O'Brien	Sampler Name (Print): Kelsey O'Brien
	ache		5	TAT	Rush?					GCU #1/0	
	ed				P.O. #:	P.(		=			Project Name(optional):
	List								om	Email Report to: ksiesser@cottonwoodconsulting.com	Email Report to: ksiess
										iesser	Contact Person: Kyle Siesser
	1										<sup>o</sup> hone #: 970-764-7356
									State: CO Zip: 81302	S	City: Durango
										3	Address: PO Box 1653
ANALYSIS REQUEST			(if different):	Bill to (if c						Cottonwood Consulting LLC	Company or Client: C
1			stody	hain of Cu	on the C	used o	ucts cannot be	or similar produ	Note: Wite-Out <sup>TM</sup> or similar products cannot be used on the Chain of Custody	010) 141 4220	Laboratories
FURM-UU6, R 8.0	z									75 Suttle Street Durango, CO 81303	
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	OF-CUSTO	CHAIN-									

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# Received by OCD: 12/30/2024 10:55:34 AM

Released to Imaging: 6/27/2025 9:21:55 AM

# **Project Information**

# **Cottonwood Consulting**

PO Box 1653 Durango, CO 81302 Laboratory PM: Veronica Wells

 Project Name:
 Anions, ICP Metals,Wet Chem

 Project Number:
 Kyle Siesser

 Client PM:
 Kyle Siesser

 Comments:
 Kyle Siesser

### Analysis

Comment

200.2 Metals Digest Alkalinity, Total Bromide [IC] Calcium 200.2 by ICP Chloride [IC] Conductivity Fluoride [IC] Magnesium 200.2 by ICP Nitrate/Nitrite by IC Package Orthophosphate [IC] pH Potassium 200.2 by ICP Sodium 200.2 by ICP Sulfate [IC] Total Dissolved Solids [TDS]

# Nitrate/Nitrite by IC Package subanalyses:

Nitrate [IC] Nitrite [IC] od Consulting Phone: (970) 946-3761 Fax: -

Released to Imaging: 6/27/2025 9:21:55 AM



# SAMPLE CONDITION RECEIPT FORM

Client Name: <u>Cottonwoo</u>	d Consulti	ng Wor	k Order # <u>2466-169</u>
Courier: □Fed Ex □UPS □USPS	Client 🗆 Kan	garoo □ Third Party □(	Other
Custody Seals on Box/Cooler Present:	Yes No	Seals Intact: □ Yes □ No	
Thermometer Used: #2 Samples of	on ice, cooling process	has begun: 🛛 Yes 🗆 No	Date/Initials of person 2.13.24 examining contents:
Type of Ice: 🗹 Wet 🛛 Blue 🖾 None	,		Labeled by initials:
Cooler Temp: Observed Temp: $\frac{9}{29}$ °C * Temp should be above freezing to 6°C		_°C Final Temp: <u> </u>	(if different than above)
Chain of Custody Present:	EYes DNo	1.	
Chain of Custody Filled Out:	PYes DNo	2.	
Chain of Custody Relinquished:	⊡Yes □No	3.	
Sampler Name and Signature on COC:	⊠Yes □No	4.	
Samples arrived within hold time:	⊠Yes □No	5.	
Short Hold Time Analysis (<72hr):	DYes DNo	6. PH, NOX, OPOY	
Rush Turn Around Time Requested:		7.	
Sufficient Volume:	ØYes □No	8.	
Correct Containers Used:	⊠Yes □No	9.	
Containers Intact:	⊠Yes □No	10.	
Dissolved Testing Needed:		11.	
Field Filtered:  Yes  No		12.	
Sample Labels match COC: -Includes Date/Time/ID	⊠Yes □No	12.	
Matrix:	SL QT		
Trip Blank Present: Trip Blank Custody Seals Present:	□Yes □No ☑N/A □Yes □No ☑N/A	13.	
Client Notification/Resolution:			
Person Contacted:		Date/Time:	
Comments/Resolution:			

Page 1 of 1



75 Suttle Street Durango, CO 81303 970.247.4220 Phone jeremy.allen@greenanalytical.com

27 December 2024

Kyle Siesser Cottonwood Consulting PO Box 1653 Durango, CO 81302 RE: GCU #170

Enclosed are the results of analyses for samples received by the laboratory on 12/10/24 16:55. 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,

Nermica & nulls

Veronica Wells 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 <a href="http://greenanalytical.com/certifications/">http://greenanalytical.com/certifications/</a>

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: TX-C24-00019

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: TX-C24-00112

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2412100-01: MW #2A	4
2412100-02: MW #3A	5
2412100-03: MW #4A	6
2412100-04: MW #5	7
2412100-05: MW #6	8
2412100-06: MW #7	9
2412100-07: MW #8	10
2412100-08: MW #9	11
Quality Assurance Results	12
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Cottonwood Consu	lting Project: Anions, ICP Metals, Wet Che	em
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 8130	2 Project Manager: Kyle Siesser	12/27/24 09:12

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2A	2412100-01	Water	12/10/24 12:00	12/10/24 16:55	
MW #3A	2412100-02	Water	12/10/24 12:15	12/10/24 16:55	
MW #4A	2412100-03	Water	12/10/24 11:50	12/10/24 16:55	
MW #5	2412100-04	Water	12/10/24 12:20	12/10/24 16:55	
MW #6	2412100-05	Water	12/10/24 11:45	12/10/24 16:55	
MW #7	2412100-06	Water	12/10/24 12:05	12/10/24 16:55	
MW #8	2412100-07	Water	12/10/24 12:25	12/10/24 16:55	
MW #9	2412100-08	Water	12/10/24 12:10	12/10/24 16:55	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Pro	ject Name / N			tals,Wet (	Chem		<b>Report</b> 12/27/24	
			MW #2	A					
		241210 Sampleo Sampleo	d Date: 1	ınd Water) 2/10/24 12: Dylan Songe		lsey O'Brien			
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	575	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
lkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
lkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
lkalinity, Bicarbonate as CaCO3*	575	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
romide	1.00	0.200	0.0548	mg/L	2	12/17/24 18:00	EPA 300.0		AWG
hloride*	76.5	2.00	0.994	mg/L	2	12/17/24 18:00	EPA 300.0		AWG
onductivity*	2920	1.00		umho/cm@25 C	1	12/11/24 09:25	2510 B		HIC
luoride*	0.764	0.200	0.0673	mg/L	2	12/17/24 18:00	EPA 300.0		AWG
itrate as N*	1.85	0.100	0.039	mg/L	5	12/11/24 12:35	EPA 300.0		AWG
itrate+Nitrite as N by IC	1.85	0.200	0.0519	mg/L	5	12/11/24 12:35	EPA 300.0		AWG
itrite as N*	< 0.100	0.100	0.013	mg/L	5	12/11/24 12:35	EPA 300.0		AWG
rtho-Phosphate as P*	< 0.250	0.250	0.146	mg/L	5	12/11/24 12:35	EPA 300.0		AWG
H*	6.93			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
H Temperature, degrees C	18.1			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
ulfate*	1150	10.0	5.63	mg/L	10	12/18/24 14:24	EPA 300.0		AWG
otal Dissolved Solids*	2300	10.0		mg/L	1	12/16/24 14:55	EPA 160.1/SM 2540C		HIC
<b>Cotal Recoverable Metals by ICP (E200.</b>	7)								
Calcium*	361	1.00	0.575	mg/L	5	12/18/24 16:02	EPA 200.7		AWG
/lagnesium*	71.8	0.500	0.192	mg/L	5	12/18/24 16:02	EPA 200.7		AWG

< 5.00

344

5.00

5.00

0.530

1.27

mg/L

mg/L

5

5

12/18/24 16:02

12/18/24 16:02

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Potassium\*

Sodium\*

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EPA 200.7

EPA 200.7

AWG

AWG



Cottonwood Consulting				nions, ICP Me	tals,Wet	Chem			
PO Box 1653	Pro	oject Name / N						Report	
Durango CO, 81302		Project M	lanager: Ky	/le Siesser				12/27/24	09:12
			MW #3	A					
				und Water) 12/10/24 12:	15				
		Sampleo	d By:	Dylan Songe	er & Ke	lsey O'Brien			
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	350	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	350	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
Bromide	0.734	0.200	0.0548	mg/L	2	12/17/24 19:22	EPA 300.0		AWG
Chloride*	51.2	2.00	0.994	mg/L	2	12/17/24 19:22	EPA 300.0		AWG
Conductivity*	2320	1.00		umho/cm@25 C	1	12/11/24 09:25	2510 B		HIC
`luoride*	0.858	0.200	0.0673	mg/L	2	12/17/24 19:22	EPA 300.0		AWG
litrate as N*	7.48	0.100	0.039	mg/L	5	12/11/24 12:54	EPA 300.0		AWG
Nitrate+Nitrite as N by IC	7.48	0.200	0.0519	mg/L	5	12/11/24 12:54	EPA 300.0		AWG
litrite as N*	< 0.100	0.100	0.013	mg/L	5	12/11/24 12:54	EPA 300.0		AWG
Ortho-Phosphate as P*	< 0.250	0.250	0.146	mg/L	5	12/11/24 12:54	EPA 300.0		AWG
H*	7.05			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
H Temperature, degrees C	17.4			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
ulfate*	984	10.0	5.63	mg/L	10	12/18/24 14:45	EPA 300.0		AWG
'otal Dissolved Solids*	1870	10.0		mg/L	1	12/16/24 14:57	EPA 160.1/SM 2540C		HIC
Total Recoverable Metals by ICP (E200.7)									
Calcium*	364	1.00	0.575	mg/L	5	12/18/24 16:11	EPA 200.7		AWG

49.9

< 5.00

183

0.500

5.00

5.00

0.192

0.530

1.27

mg/L

mg/L

mg/L

5

5

5

Green Analytical Laboratories

Magnesium\*

Potassium\*

Sodium\*

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12/18/24 16:11

12/18/24 16:11

12/18/24 16:11

EPA 200.7

EPA 200.7

EPA 200.7

AWG

AWG

AWG



Cottonwood Consulting			Project: An	ions, ICP Met	als,Wet	Chem						
PO Box 1653	Proj	ect Name / N	Number: GC	CU #170				Repor	ted:			
Durango CO, 81302		Project M	lanager: Ky	le Siesser								
			MW #4									
				1nd Water) 2/10/24 11:5	0							
		-		2/10/24 11.5	U							
		Sample	a By:									
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst			
General Chemistry												
Alkalinity, Total as CaCO3*	655	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC			
lkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC			
lkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC			
Alkalinity, Bicarbonate as CaCO3*	655	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC			
Bromide	2.70	0.500	0.137	mg/L	5	12/17/24 20:03	EPA 300.0		AWG			
Chloride*	213	5.00	2.49	mg/L	5	12/17/24 20:03	EPA 300.0		AWG			
conductivity*	4550	1.00		umho/cm@25	1	12/11/24 09:25	2510 B		HIC			

Chloride*	213	5.00	2.49	mg/L	5	12/17/24 20:03	EPA 300.0	AWG
Conductivity*	4550	1.00	1	umho/cm@25 C	1	12/11/24 09:25	2510 B	HIC
Fluoride*	1.50	0.500	0.168	mg/L	5	12/17/24 20:03	EPA 300.0	AWG
Nitrate as N*	0.795	0.100	0.039	mg/L	5	12/11/24 13:13	EPA 300.0	AWG
Nitrate+Nitrite as N by IC	0.795	0.200	0.0519	mg/L	5	12/11/24 13:13	EPA 300.0	AWG
Nitrite as N*	< 0.100	0.100	0.013	mg/L	5	12/11/24 13:13	EPA 300.0	AWG
Ortho-Phosphate as P*	< 0.250	0.250	0.146	mg/L	5	12/11/24 13:13	EPA 300.0	AWG
pH*	7.13			pH Units	1	12/11/24 09:25	EPA 150.1	HIC
pH Temperature, degrees C	17.4			pH Units	1	12/11/24 09:25	EPA 150.1	HIC
Sulfate*	1620	20.0	11.3	mg/L	20	12/17/24 20:23	EPA 300.0	AWG
Total Dissolved Solids*	3270	10.0		mg/L	1	12/16/24 14:59	EPA 160.1/SM 2540C	HIC
Total Recoverable Metals by ICP (E200.7)								
Calcium*	613	1.00	0.575	mg/L	5	12/18/24 16:24	EPA 200.7	AWG
Magnesium*	184	1.00	0.383	mg/L	10	12/20/24 11:34	EPA 200.7	AWG
Potassium*	19.3	5.00	0.530	mg/L	5	12/18/24 16:24	EPA 200.7	AWG
Sodium*	693	5.00	1.27	mg/L	5	12/18/24 16:24	EPA 200.7	AWG

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Pro	Project: Anions, ICP Metals,Wet Chem oject Name / Number: GCU #170 Project Manager: Kyle Siesser							<b>Reported:</b> 12/27/24 09:12	
			MW #5	5						
		241210 Sampleo		und Water) 2/10/24 12:	20					
		Sample	d By: I	)ylan Songe	er & Ke	lsey O'Brien				
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst	
General Chemistry										
Alkalinity, Total as CaCO3*	460	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC	
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC	
lkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC	
lkalinity, Bicarbonate as CaCO3*	460	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC	
Bromide	0.282	0.200	0.0548	mg/L	2	12/17/24 20:44	EPA 300.0		AWG	
Chloride*	19.1	2.00	0.994	mg/L	2	12/17/24 20:44	EPA 300.0		AWG	
Conductivity*	2230	1.00		umho/cm@25 C	1	12/11/24 09:25	2510 B		HIC	
'luoride*	0.482	0.200	0.0673	mg/L	2	12/17/24 20:44	EPA 300.0		AWG	
litrate as N*	2.90	0.100	0.039	mg/L	5	12/11/24 13:32	EPA 300.0		AWG	
litrate+Nitrite as N by IC	2.90	0.200	0.0519	mg/L	5	12/11/24 13:32	EPA 300.0		AWG	
litrite as N*	< 0.100	0.100	0.013	mg/L	5	12/11/24 13:32	EPA 300.0		AWG	
Ortho-Phosphate as P*	< 0.250	0.250	0.146	mg/L	5	12/11/24 13:32	EPA 300.0		AWG	
H*	6.94			pH Units	1	12/11/24 09:25	EPA 150.1		HIC	
H Temperature, degrees C	17.9			pH Units	1	12/11/24 09:25	EPA 150.1		HIC	
ulfate*	1070	10.0	5.63	mg/L	10	12/18/24 15:05	EPA 300.0		AWG	
otal Dissolved Solids*	2070	10.0		mg/L	1	12/16/24 15:01	EPA 160.1/SM 2540C		HIC	
fotal Recoverable Metals by ICP (E200	.7)									
Calcium*	387	1.00	0.575	mg/L	5	12/18/24 16:28	EPA 200.7		AWG	
/agnesium*	96.9	1.00	0.383	mg/L	10	12/20/24 11:38	EPA 200.7		AWG	
Potassium*	18.6	5.00	0.530	mg/L	5	12/18/24 16:28	EPA 200.7		AWG	
odium*	233	5.00	1.27	mg/L	5	12/18/24 16:28	EPA 200.7		AWG	

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Cottonwood Consulting Project: Anions, ICP Metals, Wet Chem									
PO Box 1653	Pro	ject Name / N	Number: GC	CU #170				Report	ed:
Durango CO, 81302		Project M	lanager: Ky	le Siesser				12/27/24	09:12
			MW #6	6					
		241210 Sampleo		und Water) 2/10/24 11:	45				
		Sample	d By: I	Oylan Songe	er & Ke	lsey O'Brien			
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	690	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
lkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
lkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
lkalinity, Bicarbonate as CaCO3*	690	10.0	8.00	mg/L	5	12/13/24 12:00	2320 B		HIC
romide	< 0.200	0.200	0.0548	mg/L	2	12/17/24 21:24	EPA 300.0		AWG
Chloride*	6.12	2.00	0.994	mg/L	2	12/17/24 21:24	EPA 300.0		AWG
Conductivity*	1310	1.00		umho/cm@25 C	1	12/11/24 09:25	2510 B		HIC
'luoride*	0.538	0.200	0.0673	mg/L	2	12/17/24 21:24	EPA 300.0		AWG
litrate as N*	< 0.020	0.020	0.008	mg/L	1	12/11/24 13:51	EPA 300.0		AWG
itrate+Nitrite as N by IC	< 0.0400	0.0400	0.0104	mg/L	1	12/11/24 13:51	EPA 300.0		AWG
litrite as N*	< 0.020	0.020	0.003	mg/L	1	12/11/24 13:51	EPA 300.0		AWG
Ortho-Phosphate as P*	< 0.0500	0.0500	0.0291	mg/L	1	12/11/24 13:51	EPA 300.0		AWG
H*	6.97			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
H Temperature, degrees C	17.3			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
ulfate*	142	2.00	1.13	mg/L	2	12/17/24 21:24	EPA 300.0		AWG
otal Dissolved Solids*	875	10.0		mg/L	1	12/16/24 15:03	EPA 160.1/SM 2540C		HIC
otal Recoverable Metals by ICP (E20	0.7)								
Calcium*	280	0.200	0.115	mg/L	1	12/18/24 16:32	EPA 200.7		AWG
/agnesium*	66.6	0.500	0.192	mg/L	5	12/20/24 11:46	EPA 200.7		AWG
otassium*	7.38	1.00	0.106	mg/L	1	12/18/24 16:32	EPA 200.7		AWG
odium*	46.3	1.00	0.254	mg/L	1	12/18/24 16:32	EPA 200.7		AWG

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Pro	Project: Anions, ICP Metals,Wet Chem oject Name / Number: GCU #170 Project Manager: Kyle Siesser							<b>Reported:</b> 12/27/24 09:12	
		241210 Sampleo Sampleo	d Date: 1	und Water) 12/10/24 12:		lsey O'Brien				
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst	
General Chemistry										
Alkalinity, Total as CaCO3*	355	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC	
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC	
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC	
lkalinity, Bicarbonate as CaCO3*	355	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC	
Bromide	1.04	0.500	0.137	mg/L	5	12/17/24 22:05	EPA 300.0		AWG	
'hloride*	63.8	5.00	2.49	mg/L	5	12/17/24 22:05	EPA 300.0		AWG	
Conductivity*	2250	1.00		umho/cm@25 C	1	12/11/24 09:25	2510 B		HIC	
Fluoride*	0.810	0.500	0.168	mg/L	5	12/17/24 22:05	EPA 300.0		AWG	
Nitrate as N*	5.16	0.100	0.039	mg/L	5	12/11/24 15:25	EPA 300.0		AWG	
Nitrate+Nitrite as N by IC	5.16	0.200	0.0519	mg/L	5	12/11/24 15:25	EPA 300.0		AWG	
litrite as N*	< 0.100	0.100	0.013	mg/L	5	12/11/24 15:25	EPA 300.0		AWG	
Ortho-Phosphate as P*	< 0.250	0.250	0.146	mg/L	5	12/11/24 15:25	EPA 300.0		AWG	
H*	7.01			pH Units	1	12/11/24 09:25	EPA 150.1		HIC	
H Temperature, degrees C	17.6			pH Units	1	12/11/24 09:25	EPA 150.1		HIC	
Sulfate*	993	5.00	2.81	mg/L	5	12/17/24 22:05	EPA 300.0		AWG	
`otal Dissolved Solids*	1850	10.0		mg/L	1	12/16/24 15:05	EPA 160.1/SM 2540C		HIC	
fotal Recoverable Metals by ICP (E200.	7)									
Calcium*	381	1.00	0.575	mg/L	5	12/18/24 16:34	EPA 200.7		AWG	
/lagnesium*	51.5	1.00	0.383	mg/L	10	12/20/24 11:48	EPA 200.7		AWG	
Potassium*	< 5.00	5.00	0.530	mg/L	5	12/18/24 16:34	EPA 200.7		AWG	
				-	-					

165

5.00

1.27

mg/L

5

Green Analytical Laboratories

Sodium\*

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12/18/24 16:34

EPA 200.7

AWG



Cottonwood Consulting PO Box 1653	Pro	ject Name / N	5	ions, ICP Me UI #170	tals,Wet	Chem		Report	·od•
Durango CO, 81302	110	0	lanager: Ky					•	
		241210 Sample Sample	d Date: 1	und Water) 2/10/24 12:		lsey O'Brien		HIC HIC HIC HIC HIC HIC HIC HIC HIC HIC	
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	265	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC
lkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC
lkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC
lkalinity, Bicarbonate as CaCO3*	265	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC
romide	< 0.200	0.200	0.0548	mg/L	2	12/17/24 23:07	EPA 300.0		AWG
'hloride*	9.82	2.00	0.994	mg/L	2	12/17/24 23:07	EPA 300.0		AWG
conductivity*	1890	1.00		umho/cm@25 C	1	12/11/24 09:25	2510 B		HIC
'luoride*	0.652	0.200	0.0673	mg/L	2	12/17/24 23:07	EPA 300.0		AWG
litrate as N*	13.4	0.200	0.077	mg/L	10	12/11/24 17:19	EPA 300.0		AWG
litrate+Nitrite as N by IC	13.4	0.300	0.0904	mg/L	10	12/11/24 17:19	EPA 300.0		AWG
litrite as N*	< 0.100	0.100	0.013	mg/L	5	12/11/24 15:44	EPA 300.0		AWG
Ortho-Phosphate as P*	< 0.250	0.250	0.146	mg/L	5	12/11/24 15:44	EPA 300.0		AWG
H*	7.09			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
H Temperature, degrees C	17.9			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
ulfate*	898	5.00	2.81	mg/L	5	12/17/24 23:27	EPA 300.0		AWG
otal Dissolved Solids*	1600	10.0		mg/L	1	12/16/24 15:07	EPA 160.1/SM 2540C		HIC
otal Recoverable Metals by ICP (E200	).7)								
Calcium*	354	1.00	0.575	mg/L	5	12/18/24 16:38	EPA 200.7		AWG
/agnesium*	34.3	1.00	0.383	mg/L	10	12/20/24 11:50	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.530	mg/L	5	12/18/24 16:38	EPA 200.7		AWG
Sodium*	97.4	5.00	1.27	mg/L	5	12/18/24 16:38	EPA 200.7		AWG

Neronica & nuelles

Veronica Wells, Project Manager *Released to Imaging: 6/27/2025 9:21:55 AM* 



Cottonwood Consulting			5	ions, ICP Me	tals,Wet	Chem			
PO Box 1653	Pro	ject Name / N						ed:	
Durango CO, 81302		Project M	lanager: Ky	le Siesser				12/27/24	09:12
		241210	MW #9						
		Sample		ınd Water) 2/10/24 12:	10				
		Sample	d By: I	Oylan Songe	er & Ke	lsey O'Brien			
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	520	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC
lkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC
lkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC
lkalinity, Bicarbonate as CaCO3*	520	10.0	8.00	mg/L	5	12/16/24 14:00	2320 B		HIC
romide	1.61	0.500	0.137	mg/L	5	12/17/24 23:47	EPA 300.0		AWG
Chloride*	881	5.00	2.49	mg/L	5	12/17/24 23:47	EPA 300.0		AWG
conductivity*	4750	1.00		umho/cm@25 C	1	12/11/24 09:25	2510 B		HIC
`luoride*	0.525	0.500	0.168	mg/L	5	12/17/24 23:47	EPA 300.0		AWG
litrate as N*	1.05	0.200	0.077	mg/L	10	12/11/24 16:03	EPA 300.0		AWG
litrate+Nitrite as N by IC	1.04	0.400	0.104	mg/L	10	12/11/24 16:03	EPA 300.0		AWG
litrite as N*	< 0.200	0.200	0.027	mg/L	10	12/11/24 16:03	EPA 300.0		AWG
Prtho-Phosphate as P*	< 0.500	0.500	0.291	mg/L	10	12/11/24 16:03	EPA 300.0		AWG
Н*	6.91			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
H Temperature, degrees C	18.4			pH Units	1	12/11/24 09:25	EPA 150.1		HIC
ulfate*	982	5.00	2.81	mg/L	5	12/17/24 23:47	EPA 300.0		AWG
otal Dissolved Solids*	3370	10.0		mg/L	1	12/16/24 15:09	EPA 160.1/SM 2540C		HIC
<b>Cotal Recoverable Metals by ICP (E200</b>	.7)								
Calcium*	411	1.00	0.575	mg/L	5	12/18/24 16:42	EPA 200.7		AWG
/agnesium*	43.1	1.00	0.383	mg/L	10	12/20/24 11:51	EPA 200.7		AWG
Potassium*	< 5.00	5.00	0.530	mg/L	5	12/18/24 16:42	EPA 200.7		AWG
odium*	706	5.00	1.27	mg/L	5	12/18/24 16:42	EPA 200.7		AWG

Green Analytical Laboratories

Nerovica J relles

Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM



Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	12/27/24 09:12

# **General Chemistry - Quality Control**

		Reporting	<b>TT 1</b> /2	Spike	Source	0/22-	%REC	DDC	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B243636 - IC- Ion Chromatograph										
Blank (B243636-BLK1)			Prepar	red & Ana	lyzed: 12/11	/24				
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 (B243636-BS1)			Prepa	red & Ana	lyzed: 12/11	/24				
Nitrate as N	0.953	0.020	mg/L	1.00		95.3	90-110			
Nitrite as N	0.942	0.020	mg/L	1.00		94.2	90-110			
Ortho-Phosphate as P	0.909	0.0500	mg/L	1.00		90.9	90-110			
LCS Dup (B243636-BSD1)			Prepa	red & Ana	lyzed: 12/11	/24				
Nitrate as N	0.971	0.020	mg/L	1.00		97.1	90-110	1.92	20	
Nitrite as N	0.971	0.020	mg/L	1.00		97.1	90-110	3.06	20	
Ortho-Phosphate as P	0.949	0.0500	mg/L	1.00		94.9	90-110	4.34	20	
Batch B243657 - General Prep - Wet Chem										
Reference (B243657-SRM1)			Prepa	red & Ana	lyzed: 12/11	/24				
pH	6.94		pH Units	7.00	•	99.1	98.57-101.42			
Batch B243658 - General Prep - Wet Chem										
Reference (B243658-SRM1)			Prepa	red & Ana	lyzed: 12/11	/24				
Conductivity	978	1.00 u	umho/cm@2 5C	1000		97.8	90-110			
Batch B243665 - General Prep - Wet Chem			50							
Blank (B243665-BLK1)			Prepa	red & Ana	lyzed: 12/13	3/24				
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							
Alkalinity, Total as CaCO3	ND	10.0	mg/L							
LCS (B243665-BS1)			Prepa	red & Ana	lyzed: 12/13	3/24				
Alkalinity, Total as CaCO3	107	10.0	mg/L	100		107	85-115			
LCS Dup (B243665-BSD1)			Prepar	red & Ana	lyzed: 12/13	3/24				
Alkalinity, Total as CaCO3	107	10.0	mg/L	100	-	107	85-115	0.00	20	
Reference (B243665-SRM1)			Prepa	red & Ana	lyzed: 12/13	3/24				
Green Analytical Laboratories						-	analyzed in accor			
						-	t be reproduced in for incidental or co	-		
Nermica & NULLIS							or any claim arisi		•	
· veronica y maris			amount	paid by clier	nt for analyses.	All claims	, including those f	for negliger	ice and any oth	er
					hall be deemed		less made in writi	ng and rece	ived within	

Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM thirty days after completion of the applicable service.



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Projec	et Name / Nu Project Ma	mber: GC		,				<b>Report</b> 12/27/24	
	Car	neral Cher	nistry (	)uality (	ontrol					
	Gen		Continu	•	01111 01					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243665 - General Prep - Wet Che	m (Continued)									
Reference (B243665-SRM1) (Continued)			Prep	ared & Anal	lyzed: 12/1	3/24				
Alkalinity, Total as CaCO3	104	10.0	mg/L	100	-	104	85-115			
Batch B243666 - General Prep - Wet Che	m									
Blank (B243666-BLK1)			Prep	ared: 12/13/	24 Analyz	ed: 12/16/24	4			
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							
Alkalinity, Total as CaCO3	ND	10.0	mg/L							
LCS (B243666-BS1)			Prep	ared: 12/13/	24 Analyz	ed: 12/16/24	4			
Alkalinity, Total as CaCO3	109	10.0	mg/L	100		109	85-115			
LCS Dup (B243666-BSD1)			Prep	ared: 12/13/	24 Analyz	ed: 12/16/24	4			
Alkalinity, Total as CaCO3	106	10.0	mg/L	100		106	85-115	2.79	20	
Reference (B243666-SRM1)			Prep	ared: 12/13/	24 Analyz	ed: 12/16/24	4			
Alkalinity, Total as CaCO3	107	10.0	mg/L	100	5	107	85-115			
Batch B243667 - General Prep - Wet Che	m									
Blank (B243667-BLK1)			Prep	ared & Anal	lyzed: 12/1	6/24				
Total Dissolved Solids	ND	10.0	mg/L		•					
Reference (B243667-SRM1)			Prep	ared & Anal	lyzed: 12/10	6/24				
Total Dissolved Solids	375	10.0	mg/L	400		93.7	85-115			
Batch B243690 - IC- Ion Chromatograph										
Blank (B243690-BLK1)			Prep	ared: 12/16/	24 Analyz	ed: 12/17/24	4			
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 (B243690-BS1)			Prep	ared: 12/16/	24 Analyz	ed: 12/17/24	4			
Bromide	2.40	0.100	mg/L	2.50		95.8	90-110			
Chloride	24.0	1.00	mg/L	25.0		96.2	90-110			
Fluoride	2.50	0.100	mg/L	2.50		100	90-110			
Sulfate	23.8	1.00	mg/L	25.0		95.1	90-110			
LCS Dup (B243690-BSD1)			Prep	ared: 12/16/	24 Analyz	ed: 12/17/24	4			
Bromide	2.45	0.100	mg/L	2.50		98.1	90-110	2.31	20	
Green Analytical Laboratories				sults in this rej y document. T		-				
Nermica J Wells			shall GALs amour	breen Analytic liability, and c	al Laboratorie clients exclusi at for analyses	es be liable for ve remedy for . All claims, i	incidental or any claim ari ncluding those	consequentia sing, shall be for negliger	al damages. e limited to the nce and any oth	er

Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM

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amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within

thirty days after completion of the applicable service.



Cottonwood Consulting		P	roject: Ani	ons, ICP Me	etals,Wet Cl	nem				
PO Box 1653	Proj	ect Name / Nu	mber: GC	U #170					Report	ed:
Durango CO, 81302		Project Ma	nager: Kyl	e Siesser					12/27/24	09:12
	G	eneral Cher	•	•	ontrol					
			Continu	,						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243690 - IC- Ion Chromatograph	(Continued)									
CS Dup (B243690-BSD1) (Continued)			Prep	ared: 12/16/	/24 Analyz	ed: 12/17/2	4			
Chloride	24.6	1.00	mg/L	25.0		98.5	90-110	2.42	20	
Fluoride	2.56	0.100	mg/L	2.50		102	90-110	2.13	20	
Sulfate	24.3	1.00	mg/L	25.0		97.4	90-110	2.38	20	
	Total Recover	able Metal	s by ICP	(E200.7)	- Quality	v Control				
			-							
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B243701 - Total Recoverable by IC	Р									
Blank (B243701-BLK1)			Prep	ared: 12/17/	/24 Analyz	ed: 12/18/2	4			
			mg/L							
Calcium	ND	0.200	0							
Calcium Magnesium	ND ND	0.200 0.100	mg/L							
			-							
Magnesium	ND	0.100	mg/L							
Magnesium Potassium Sodium	ND ND	0.100 1.00	mg/L mg/L mg/L	pared: 12/17/	/24 Analyz	ed: 12/18/2	4			
Magnesium Potassium	ND ND	0.100 1.00	mg/L mg/L mg/L	pared: 12/17/ 2.00	/24 Analyze	ed: 12/18/2- 108	4 85-115			
Magnesium Potassium Sodium LCS (B243701-BS1)	ND ND ND	0.100 1.00 1.00	mg/L mg/L mg/L Prep		/24 Analyze					
Magnesium Potassium Sodium LCS (B243701-BS1) Calcium	ND ND ND 2.16	0.100 1.00 1.00 0.200	mg/L mg/L mg/L Prep mg/L	2.00	/24 Analyze	108	85-115			
Magnesium Potassium Sodium <i>JCS (B243701-BS1)</i> Calcium Magnesium Potassium	ND ND ND 2.16 11.0	0.100 1.00 1.00 0.200 0.100	mg/L mg/L mg/L Prep mg/L mg/L	2.00 10.0	/24 Analyz	108 110	85-115 85-115			
Magnesium Potassium Sodium LCS (B243701-BS1) Calcium Magnesium Potassium Sodium LCS Dup (B243701-BSD1)	ND ND 2.16 11.0 4.23 1.73	0.100 1.00 1.00 0.200 0.100 1.00 1.00	mg/L mg/L mg/L Prep mg/L mg/L mg/L mg/L Prep	2.00 10.0 4.00 1.62 pared: 12/17/		108 110 106 107 ed: 12/18/2	85-115 85-115 85-115 85-115 85-115			
Magnesium Potassium Sodium LCS (B243701-BS1) Calcium Magnesium Potassium Sodium LCS Dup (B243701-BSD1) Calcium	ND ND 2.16 11.0 4.23 1.73 2.11	0.100 1.00 1.00 0.200 0.100 1.00 1.00 0.200	mg/L mg/L mg/L mg/L mg/L mg/L mg/L Prep mg/L	2.00 10.0 4.00 1.62 pared: 12/17/ 2.00		108 110 106 107 ed: 12/18/2 105	85-115 85-115 85-115 85-115 4 85-115	2.33	20	
Magnesium Potassium Sodium CCS (B243701-BS1) Calcium Magnesium Potassium Sodium CCS Dup (B243701-BSD1) Calcium Magnesium	ND ND 2.16 11.0 4.23 1.73	0.100 1.00 1.00 0.200 0.100 1.00 1.00	mg/L mg/L mg/L Prep mg/L mg/L mg/L mg/L Prep	2.00 10.0 4.00 1.62 pared: 12/17/		108 110 106 107 ed: 12/18/2	85-115 85-115 85-115 85-115 85-115	1.62	20 20 20	
Magnesium Potassium Sodium LCS (B243701-BS1) Calcium Magnesium Potassium Sodium LCS Dup (B243701-BSD1) Calcium	ND ND 2.16 11.0 4.23 1.73 2.11	0.100 1.00 1.00 0.200 0.100 1.00 1.00 0.200	mg/L mg/L mg/L mg/L mg/L mg/L mg/L Prep mg/L	2.00 10.0 4.00 1.62 pared: 12/17/ 2.00		108 110 106 107 ed: 12/18/2 105	85-115 85-115 85-115 85-115 4 85-115			

Nerovica & nulles

Veronica Wells, Project Manager *Released to Imaging: 6/27/2025 9:21:55 AM* 



Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	12/27/24 09:12

# **Notes and Definitions**

DET Analyte D	DETECTED
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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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Veronica Wells, Project Manager Released to Imaging: 6/27/2025 9:21:55 AM

Ille Out <sup>TW</sup> or similar products cannot be used on the Chain of Custody       Bill to (if different):       Collected       PO.#:       PO.Differ:       PO.Differ:       PO.Diff	Relinquished By:		Relinquished By:	Relinquished By:	weived unitess inside in writing and received by GAL within 30 days after compl client, its subsidiaries, affiliates or successors aris	PLEASE NOTE: GAL's liability and client's exclusive remedy for any daim aris	9)	6# WM (8)	B# WM 17	6) MW #7	S INW #5	04 (1) MW #5	03 3) MW #4A	67 <sup>2)</sup> MW #3A	Q 1) MW #2A	Lab Use Uniy	Lab I.D. 2412 - Aproximan Sample Name or Location	(	Sampler Name (Print): Kelsey O'Brien / Dy Van	GCU #1/0	Project Name(optional):	Email Report to: ksiesser@cottonwoodconsulting com	Contact Person: Kyle Siesser	Phone #: 970-764-7356		Address: PO Box 16		Laboratories (9/0) 247 4220
cannot be used on the Chain of Custody       Bill to (if different):       Bill to (if different):       Bill to (if different):       Bill to (if different):       P.O. #:       PRODUCED WATER       PRODUCED WATER       PRODUCED WATER       PRODUCED WATER       PRODUCED WATER       OTHER:       OTHER:       OTHER:       C       OTHER:       OTHER:       OTHER:       OTHER:       OTHER:       OTHER:       OTHER:       OTHER:	Date: Received By: Time:			1/250	letion of the applicable service. In no event shall GAL t sing out of or related to the performance of services he	sing whether based in contract or tort, shall be limited to		V I	11 1		11		11				Location	Collecte	des.						CO Zip:			Note: Wite-Out <sup>TM</sup> or similar products
All claims including those for negligence in its based upon any of the above stated Che Che	Date: Time:	Time:	Date:	25	be liable for incidental or consequental damages reunder by GAL, regardless of whether such cla	o the amount paid by the client for the analyses		0 1	25 1	<	<	< 	< 	<	<	GRO SUR WAS PRO DRIN SOIL	FACE WATER TEWATER DUCED WATER KING WATER R:	Matrix (check one)		1.5	P.O.#						Bill to (if d	cannot be used on the Chain of Cu
ANALYSIS ANALYSIS ANALYSIS Checked by:	at receip		F	ADDITIONAL REMARKS:	s, including without limitation, business inter aim is based upon any of the above stated	All claims including those for negligence		-	-					-		Nitrio Hydr Sulfu Sodiu	c Acid rochloric Acid uric Acid um Hydroxide R:	1			Lis	st				_		stody

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# 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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# **Project Information**

Comment

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# **Cottonwood Consulting**

PO Box 1653 Durango, CO 81302 Laboratory PM: Veronica Wells

 Project Name:
 Anions, ICP Metals,Wet Chem

 Project Number:
 Kyle Siesser

 Client PM:
 Kyle Siesser

 Comments:
 Kyle Siesser

### Analysis

200.2 Metals Digest Alkalinity, Total Bromide [IC] Calcium 200.2 by ICP Chloride [IC] Conductivity Fluoride [IC] Magnesium 200.2 by ICP Nitrate/Nitrite by IC Package Orthophosphate [IC] pH Potassium 200.2 by ICP Sodium 200.2 by ICP Sodium 200.2 by ICP

# Nitrate/Nitrite by IC Package subanalyses:

Nitrate [IC] Nitrite [IC] **od Consulting** Phone: (970) 946-3761 Fax: -

ed by OCD: 12/30/2024 10:55:34 AM			Table of Contents
Analytical Laboratories			Date/Initials of person /2.4 examining contents:
	IPLE CONDITI	ON RECEIPT FORM	Labeled by initials: (if different than above)
Client Name: Consult	Rees		
Courier: □Fed Ex □UPS □USPS	ØClient □ Kar		ork Order # <u>2-412 - 100</u>
Custody Seals on Box/Cooler Present:	-		□Other
Thermometer Used: 2 Samples on		has begun: Pros D No	GAL Cooler #:
Type of Ice: 🗹 Wet 🗆 Blue 🗆 None Co	oler Temp: Obsen		on Factor:°C Final Temp: [0
Compliance: 🗆 Yes 🗹 No			*Temp should be above freezing 6°C
Chain of Custody Filled Out:	ØYes ⊡No	1.	
COC Signed when Relinquished and Received:	ØYes □No	2.	
Sampler Name and Signature on COC: *Required for compliance	Pres DNo	3.	
Samples arrived within hold time:	PYes DNo	4.	
Correct Containers Used & Intact:	ØYes □No	5.	
Short Hold Time Analysis (<72hr):	Yes No	5. pt Nox 10po4	
Rush Turn Around Time Requested: *3 day TAT or less requires supervisor approval	□Yes ⊉No	7. Approved By:	
Sufficient Volume:	Pres DNo	8.	
pH's acceptable upon receipt, where applicable: *Not including metals bottles	□Yes □No 1211/A	9.	
Dissolved Testing Needed: Field Filtered: Yes		10.	
Sample Labels match COC:		11.	
-Includes Date/Time/ID Matrix:	NO SL OT		
Trip Blank Present:	□Yes □No □N/A	12.	
Trip Blank Custody Seals Present:	□Yes □No □N/A		
VOA's meet headspace requirement (<6mm bubbles)	□Yes □No □N/A		
Non-Conformance(s):	□Yes ØNo	13.	
Client Notification/Resolution:	Ť.		
Person Contacted:		Date/Time:	
Comments/Resolution:			
	ander and a sub-statement of the statement		

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

# CLIENT : SIMCOE LLC

GCU # 170 JNIT K, SI	EC. 35, T29	N, R12W	]		LABORATOR	RY (S) USE	GAL			
Date :	12	10/24			D	EVELOPER	/ SAMPLER :	D5/1	10	
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)	
2A	99.57	7.16	7.64	14.80	1200	8.09	3.38	9.6	3.51	
3A	97.46	8,78	7.10	15.88	1215	8.13	2.65	10.9	4.30	
4A	99.08	8,19	7.79	15.98	1150	8.01	4.97	9,6	4.01	
5	96.05	11.61	7,69	19.30	1220	7,89	2.55	10.4	5.69	
6	101.53	7,29	8.69	15.98	1145	8.63	1.65	8,4	3.57	
7	99.97	10.43	8.35	18.78	1205	8.22	2.58	9.6	5.11	
8	97.69	9.98	8.10	18.08	1225	8,00	2118	9.6	4.89	
9	100.28	7.9	10,53	18.43	1210	7.85	5.34	10.1	3,87	

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). NOTES : (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 #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.

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

# CLIENT : SIMCOE LLC

GCU #170 UNIT K, SE	EC. 35, T29N	l, R12W			LABORATOF	RY (S) USED	:	GAL	
Date :	61121	24			E	DEVELOPER	/ SAMPLER :	10 10	15
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
		•						-	
2A	99.57	6.67	8.13	14.80	1155	7,22	4000	16.3	3.26
3A	97.46	8,40	7.48	15.88	1205	733	2110	14.2	4.11
4A	99.08	7.66	8.32	15.98	1225	7,41	1695	19.4	3.75
5	96.05	12.27	7.03	19.30	1100	7.16	1889	21.7	6.01
6	101.53	6.73	9.25	15.98	1215	7,50	978	20,8	3.29
7	99.97	10.02	8.76	18.78	1125	7.24	1518	16.4	4.90
8	97.69	9.74	8.34	18.08	0111	7,38	2070	16.5	4.77
9	100.28	7.49	10,14	18.43	1135	7.34	1226	16.3	3.67
			1						

NOTES: <u>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).</u> (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 #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. Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

C

CONDITIONS

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS								
Dperator:	OGRID:							
SIMCOE LLC	329736							
1199 Main Ave., Suite 101	Action Number:							
Durango, CO 81301	415773							
	Action Type:							
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)							

Created By	Condition	Condition Date
jburdine	Accepted for the record, GCU #170 Biannual Groundwater Monitoring Lab Results, includes analysis for monitoring wells: MW-2A, MW-3A, MW-4A, MW-5 through MW-9	6/27/2025

CONDITIONS

Action 415773