



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

06 July 2023

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 06/22/23 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,

A handwritten signature in blue ink that reads "Veronica J. Wells". The signature is written in a cursive style and is enclosed in a light blue rectangular box.

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 <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: T104704514-23-17

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: T104704398-23-16



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

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	07/06/23 08:54

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2A	2306229-01	Water	06/20/23 11:55	06/22/23 09:20	
MW #3A	2306229-02	Water	06/20/23 12:05	06/22/23 09:20	
MW #4A	2306229-03	Water	06/20/23 12:15	06/22/23 09:20	
MW #5	2306229-04	Water	06/20/23 12:25	06/22/23 09:20	
MW #6	2306229-05	Water	06/20/23 12:40	06/22/23 09:20	
MW #7	2306229-06	Water	06/20/23 12:50	06/22/23 09:20	
MW #8	2306229-07	Water	06/20/23 12:55	06/22/23 09:20	
MW #9	2306229-08	Water	06/20/23 13:00	06/22/23 09:20	

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Veronica Wells, Project Manager

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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
Project Name / Number: GCU #170  
Project Manager: Kyle Siesser

Reported:  
07/06/23 08:54

**MW #2A**

**2306229-01 (Ground Water)**

**Sampled Date: 06/20/23 11:55**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	660	10.0	6.06	mg/L	10	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	10	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	10	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO3*	660	10.0	6.06	mg/L	10	06/23/23 08:42	2320 B		KRW
Bromide	0.444	0.200	0.0548	mg/L	2	06/30/23 00:47	EPA300.0		AWG
Chloride*	33.1	2.00	0.111	mg/L	2	06/30/23 00:47	EPA300.0		AWG
Conductivity*	1720	1.00		umho/cm@25 C	1	06/22/23 10:50	2510 B		KRW
Fluoride*	0.544	0.200	0.0194	mg/L	2	06/30/23 00:47	EPA300.0		AWG
Nitrate as N*	0.910	0.040	0.015	mg/L	2	06/22/23 11:56	EPA300.0	H5	AWG
Nitrate+Nitrite as N by IC	0.910	0.0800	0.0238	mg/L	2	06/22/23 11:56	EPA300.0		AWG
Nitrite as N*	<0.040	0.040	0.008	mg/L	2	06/22/23 11:56	EPA300.0	H5	AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	06/22/23 11:56	EPA300.0	H5	AWG
pH*	7.19			pH Units	1	06/22/23 10:50	EPA150.1		KRW
pH Temperature, degrees C	20.2			pH Units	1	06/22/23 10:50	EPA150.1		KRW
Sulfate*	666	10.0	1.24	mg/L	10	06/30/23 01:08	EPA300.0		AWG
Total Dissolved Solids*	1320	10.0		mg/L	1	06/23/23 16:02	EPA160.1		CAI

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	288	1.00	0.478	mg/L	5	06/27/23 14:42	EPA200.7		AES
Magnesium*	31.7	0.500	0.199	mg/L	5	06/27/23 14:42	EPA200.7		AES
Potassium*	<5.00	5.00	2.59	mg/L	5	06/27/23 14:42	EPA200.7		AES
Sodium*	108	5.00	2.70	mg/L	5	06/27/23 14:42	EPA200.7		AES

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Veronica Wells, Project Manager

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Project: Anions, ICP Metals, Wet Chem  
Project Name / Number: GCU #170  
Project Manager: Kyle Siesser

Reported:  
07/06/23 08:54

**MW #3A**

**2306229-02 (Ground Water)**

**Sampled Date: 06/20/23 12:05**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	246	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO3*	246	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Bromide	0.362	0.200	0.0548	mg/L	2	06/30/23 01:29	EPA300.0		AWG
Chloride*	26.4	2.00	0.111	mg/L	2	06/30/23 01:29	EPA300.0		AWG
Conductivity*	1850	1.00		umho/cm@25 C	1	06/22/23 10:50	2510 B		KRW
Fluoride*	0.576	0.200	0.0194	mg/L	2	06/30/23 01:29	EPA300.0		AWG
Nitrate as N*	1.72	0.040	0.015	mg/L	2	06/22/23 12:14	EPA300.0	H5	AWG
Nitrate+Nitrite as N by IC	2.34	0.0800	0.0238	mg/L	2	06/22/23 12:14	EPA300.0		AWG
Nitrite as N*	0.611	0.040	0.008	mg/L	2	06/22/23 12:14	EPA300.0	H5	AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	06/22/23 12:14	EPA300.0	H5	AWG
pH*	7.23			pH Units	1	06/22/23 10:50	EPA150.1		KRW
pH Temperature, degrees C	21.2			pH Units	1	06/22/23 10:50	EPA150.1		KRW
Sulfate*	843	10.0	1.24	mg/L	10	06/30/23 01:50	EPA300.0		AWG
Total Dissolved Solids*	1490	10.0		mg/L	1	06/23/23 16:04	EPA160.1		CAI

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	315	1.00	0.478	mg/L	5	06/27/23 14:45	EPA200.7		AES
Magnesium*	29.3	0.500	0.199	mg/L	5	06/27/23 14:45	EPA200.7		AES
Potassium*	<5.00	5.00	2.59	mg/L	5	06/27/23 14:45	EPA200.7		AES
Sodium*	84.8	5.00	2.70	mg/L	5	06/27/23 14:45	EPA200.7		AES

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Veronica Wells, Project Manager

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

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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
Project Name / Number: GCU #170  
Project Manager: Kyle Siesser

Reported:  
07/06/23 08:54

**MW #4A**

**2306229-03 (Ground Water)**

**Sampled Date: 06/20/23 12:15**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	468	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO3*	468	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Bromide	0.638	0.200	0.0548	mg/L	2	06/30/23 02:11	EPA300.0		AWG
Chloride*	52.0	2.00	0.111	mg/L	2	06/30/23 02:11	EPA300.0		AWG
Conductivity*	1630	1.00		umho/cm@25 C	1	06/22/23 10:50	2510 B		KRW
Fluoride*	0.552	0.200	0.0194	mg/L	2	06/30/23 02:11	EPA300.0		AWG
Nitrate as N*	0.373	0.040	0.015	mg/L	2	06/22/23 12:33	EPA300.0	H5	AWG
Nitrate+Nitrite as N by IC	0.373	0.0800	0.0238	mg/L	2	06/22/23 12:33	EPA300.0		AWG
Nitrite as N*	<0.040	0.040	0.008	mg/L	2	06/22/23 12:33	EPA300.0	H5	AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	06/22/23 12:33	EPA300.0	H5	AWG
pH*	7.19			pH Units	1	06/22/23 10:50	EPA150.1		KRW
pH Temperature, degrees C	21.4			pH Units	1	06/22/23 10:50	EPA150.1		KRW
Sulfate*	457	10.0	1.24	mg/L	10	06/30/23 02:32	EPA300.0		AWG
Total Dissolved Solids*	1210	10.0		mg/L	1	06/23/23 16:06	EPA160.1		CAI

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	194	1.00	0.478	mg/L	5	06/27/23 14:49	EPA200.7		AES
Magnesium*	25.2	0.500	0.199	mg/L	5	06/27/23 14:49	EPA200.7		AES
Potassium*	<5.00	5.00	2.59	mg/L	5	06/27/23 14:49	EPA200.7		AES
Sodium*	136	5.00	2.70	mg/L	5	06/27/23 14:49	EPA200.7		AES

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Veronica Wells, Project Manager

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

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: Anions, ICP Metals, Wet Chem Project Name / Number: GCU #170 Project Manager: Kyle Siesser	Reported: 07/06/23 08:54
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**MW #5**

**2306229-04 (Ground Water)**

**Sampled Date: 06/20/23 12:25**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	250	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO3*	250	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Bromide	<0.500	0.500	0.137	mg/L	5	06/30/23 02:52	EPA300.0		AWG
Chloride*	16.0	5.00	0.278	mg/L	5	06/30/23 02:52	EPA300.0		AWG
Conductivity*	2180	1.00		umho/cm@25 C	1	06/22/23 10:50	2510 B		KRW
Fluoride*	0.595	0.500	0.0486	mg/L	5	06/30/23 02:52	EPA300.0		AWG
Nitrate as N*	1.72	0.040	0.015	mg/L	2	06/22/23 12:52	EPA300.0	H5	AWG
Nitrate+Nitrite as N by IC	2.36	0.0800	0.0238	mg/L	2	06/22/23 12:52	EPA300.0		AWG
Nitrite as N*	0.641	0.040	0.008	mg/L	2	06/22/23 12:52	EPA300.0	H5	AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	06/22/23 12:52	EPA300.0	H5	AWG
pH*	7.28			pH Units	1	06/22/23 10:50	EPA150.1		KRW
pH Temperature, degrees C	20.5			pH Units	1	06/22/23 10:50	EPA150.1		KRW
Sulfate*	1170	15.0	1.86	mg/L	15	06/30/23 03:55	EPA300.0		AWG
Total Dissolved Solids*	1880	10.0		mg/L	1	06/23/23 16:08	EPA160.1		CAI

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	359	1.00	0.478	mg/L	5	06/27/23 14:51	EPA200.7		AES
Magnesium*	41.4	0.500	0.199	mg/L	5	06/27/23 14:51	EPA200.7		AES
Potassium*	6.78	5.00	2.59	mg/L	5	06/27/23 14:51	EPA200.7		AES
Sodium*	128	5.00	2.70	mg/L	5	06/27/23 14:51	EPA200.7		AES

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Veronica Wells, Project Manager

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**MW #6**

**2306229-05 (Ground Water)**

**Sampled Date: 06/20/23 12:40**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	400	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO3*	400	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Bromide	<0.100	0.100	0.0274	mg/L	1	06/30/23 04:16	EPA300.0		AWG
Chloride*	4.02	1.00	0.0555	mg/L	1	06/30/23 04:16	EPA300.0		AWG
Conductivity*	796	1.00		umho/cm@25 C	1	06/22/23 10:50	2510 B		KRW
Fluoride*	0.567	0.100	0.00971	mg/L	1	06/30/23 04:16	EPA300.0		AWG
Nitrate as N*	<0.020	0.020	0.008	mg/L	1	06/22/23 13:11	EPA300.0	H5	AWG
Nitrate+Nitrite as N by IC	<0.0400	0.0400	0.0119	mg/L	1	06/22/23 13:11	EPA300.0		AWG
Nitrite as N*	<0.020	0.020	0.004	mg/L	1	06/22/23 13:11	EPA300.0	H5	AWG
Ortho-Phosphate as P*	<0.0500	0.0500	0.0291	mg/L	1	06/22/23 13:11	EPA300.0	H5	AWG
pH*	7.35			pH Units	1	06/22/23 10:50	EPA150.1		KRW
pH Temperature, degrees C	20.8			pH Units	1	06/22/23 10:50	EPA150.1		KRW
Sulfate*	83.1	1.00	0.124	mg/L	1	06/30/23 04:16	EPA300.0		AWG
Total Dissolved Solids*	540	10.0		mg/L	1	06/23/23 16:10	EPA160.1		CAI

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	128	0.200	0.096	mg/L	1	06/27/23 14:56	EPA200.7		AES
Magnesium*	14.5	0.100	0.040	mg/L	1	06/27/23 14:56	EPA200.7		AES
Potassium*	2.20	1.00	0.517	mg/L	1	06/27/23 14:56	EPA200.7		AES
Sodium*	31.5	1.00	0.540	mg/L	1	06/27/23 14:56	EPA200.7		AES

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MW #7

2306229-06 (Ground Water)

Sampled Date: 06/20/23 12:50

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO3*	224	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO3*	224	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Bromide	0.222	0.200	0.0548	mg/L	2	07/03/23 12:36	EPA300.0	M5	AWG
Chloride*	14.0	2.00	0.111	mg/L	2	07/03/23 12:36	EPA300.0		AWG
Conductivity*	1790	1.00		umho/cm@25 C	1	06/22/23 10:50	2510 B		KRW
Fluoride*	0.560	0.200	0.0194	mg/L	2	07/03/23 12:36	EPA300.0		AWG
Nitrate as N*	1.32	0.040	0.015	mg/L	2	06/22/23 13:30	EPA300.0	H5	AWG
Nitrate+Nitrite as N by IC	1.90	0.0800	0.0238	mg/L	2	06/22/23 13:30	EPA300.0		AWG
Nitrite as N*	0.582	0.040	0.008	mg/L	2	06/22/23 13:30	EPA300.0	H5	AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	06/22/23 13:30	EPA300.0	H5	AWG
pH*	7.24			pH Units	1	06/22/23 10:50	EPA150.1		KRW
pH Temperature, degrees C	20.0			pH Units	1	06/22/23 10:50	EPA150.1		KRW
Sulfate*	878	5.00	0.620	mg/L	5	07/03/23 12:57	EPA300.0		AWG
Total Dissolved Solids*	1500	10.0		mg/L	1	06/23/23 16:12	EPA160.1		CAI

Total Recoverable Metals by ICP (E200.7)

Calcium*	328	1.00	0.478	mg/L	5	06/27/23 14:58	EPA200.7		AES
Magnesium*	30.9	0.500	0.199	mg/L	5	06/27/23 14:58	EPA200.7		AES
Potassium*	<5.00	5.00	2.59	mg/L	5	06/27/23 14:58	EPA200.7		AES
Sodium*	75.6	5.00	2.70	mg/L	5	06/27/23 14:58	EPA200.7		AES

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Veronica Wells, Project Manager

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

www.GreenAnalytical.com

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
Project Name / Number: GCU #170  
Project Manager: Kyle Siesser

Reported:  
07/06/23 08:54

**MW #8**

**2306229-07 (Ground Water)**

**Sampled Date: 06/20/23 12:55**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	188	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO3*	188	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Bromide	<0.500	0.500	0.137	mg/L	5	07/03/23 13:59	EPA300.0		AWG
Chloride*	9.01	5.00	0.278	mg/L	5	07/03/23 13:59	EPA300.0		AWG
Conductivity*	2120	1.00		umho/cm@25 C	1	06/22/23 10:50	2510 B		KRW
Fluoride*	0.545	0.500	0.0486	mg/L	5	07/03/23 13:59	EPA300.0		AWG
Nitrate as N*	0.756	0.040	0.015	mg/L	2	06/22/23 13:49	EPA300.0	H5	AWG
Nitrate+Nitrite as N by IC	1.48	0.0800	0.0238	mg/L	2	06/22/23 13:49	EPA300.0		AWG
Nitrite as N*	0.723	0.040	0.008	mg/L	2	06/22/23 13:49	EPA300.0	H5	AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	06/22/23 13:49	EPA300.0	H5	AWG
pH*	7.33			pH Units	1	06/22/23 10:50	EPA150.1		KRW
pH Temperature, degrees C	19.8			pH Units	1	06/22/23 10:50	EPA150.1		KRW
Sulfate*	1150	10.0	1.24	mg/L	10	07/03/23 14:20	EPA300.0		AWG
Total Dissolved Solids*	1910	10.0		mg/L	1	06/23/23 16:14	EPA160.1		CAI

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	422	1.00	0.478	mg/L	5	06/27/23 15:02	EPA200.7		AES
Magnesium*	38.8	0.500	0.199	mg/L	5	06/27/23 15:03	EPA200.7		AES
Potassium*	<5.00	5.00	2.59	mg/L	5	06/27/23 15:02	EPA200.7		AES
Sodium*	84.3	5.00	2.70	mg/L	5	06/27/23 15:02	EPA200.7		AES

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Veronica Wells, Project Manager

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

www.GreenAnalytical.com

Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: Anions, ICP Metals, Wet Chem Project Name / Number: GCU #170 Project Manager: Kyle Siesser	Reported: 07/06/23 08:54
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**MW #9**

**2306229-08 (Ground Water)**

**Sampled Date: 06/20/23 13:00**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	338	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO3*	338	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Bromide	<0.200	0.200	0.0548	mg/L	2	07/03/23 14:41	EPA300.0		AWG
Chloride*	12.3	2.00	0.111	mg/L	2	07/03/23 14:41	EPA300.0		AWG
Conductivity*	1650	1.00		umho/cm@25 C	1	06/22/23 10:50	2510 B		KRW
Fluoride*	0.404	0.200	0.0194	mg/L	2	07/03/23 14:41	EPA300.0		AWG
Nitrate as N*	0.765	0.040	0.015	mg/L	2	06/22/23 14:08	EPA300.0	H5	AWG
Nitrate+Nitrite as N by IC	1.38	0.0800	0.0238	mg/L	2	06/22/23 14:08	EPA300.0		AWG
Nitrite as N*	0.612	0.040	0.008	mg/L	2	06/22/23 14:08	EPA300.0	H5	AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	06/22/23 14:08	EPA300.0	H5	AWG
pH*	7.31			pH Units	1	06/22/23 10:50	EPA150.1		KRW
pH Temperature, degrees C	20.3			pH Units	1	06/22/23 10:50	EPA150.1		KRW
Sulfate*	702	5.00	0.620	mg/L	5	07/03/23 15:44	EPA300.0		AWG
Total Dissolved Solids*	1420	10.0		mg/L	1	06/23/23 16:16	EPA160.1		CAI

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	286	1.00	0.478	mg/L	5	06/27/23 15:07	EPA200.7		AES
Magnesium*	34.2	0.500	0.199	mg/L	5	06/27/23 15:07	EPA200.7		AES
Potassium*	<5.00	5.00	2.59	mg/L	5	06/27/23 15:07	EPA200.7		AES
Sodium*	69.4	5.00	2.70	mg/L	5	06/27/23 15:07	EPA200.7		AES

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Veronica Wells, Project Manager

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

www.GreenAnalytical.com

Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	07/06/23 08:54

**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B231767 - General Prep - Wet Chem</b>										
<b>Blank (B231767-BLK1)</b> Prepared & Analyzed: 06/23/23										
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							
<b>LCS (B231767-BS1)</b> Prepared & Analyzed: 06/23/23										
Alkalinity, Total as CaCO3	105	10.0	mg/L	100		105	85-115			
<b>LCS Dup (B231767-BSD1)</b> Prepared & Analyzed: 06/23/23										
Alkalinity, Total as CaCO3	102	10.0	mg/L	100		102	85-115	2.90	20	
<b>Reference (B231767-SRM1)</b> Prepared & Analyzed: 06/23/23										
Alkalinity, Total as CaCO3	55.0	10.0	mg/L	61.8		89.0	85-115			
<b>Batch B231776 - IC- Ion Chromatograph</b>										
<b>Blank (B231776-BLK1)</b> Prepared & Analyzed: 06/22/23										
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							
<b>LCS (B231776-BS1)</b> Prepared & Analyzed: 06/22/23										
Nitrate as N	1.02	0.020	mg/L	1.00		102	90-110			
Nitrite as N	0.999	0.020	mg/L	1.00		99.9	90-110			
Ortho-Phosphate as P	1.04	0.0500	mg/L	1.00		104	90-110			
<b>LCS Dup (B231776-BSD1)</b> Prepared & Analyzed: 06/22/23										
Nitrate as N	1.03	0.020	mg/L	1.00		103	90-110	0.469	20	
Nitrite as N	1.00	0.020	mg/L	1.00		100	90-110	0.260	20	
Ortho-Phosphate as P	1.05	0.0500	mg/L	1.00		105	90-110	0.316	20	
<b>Batch B231785 - General Prep - Wet Chem</b>										
<b>Blank (B231785-BLK1)</b> Prepared & Analyzed: 06/23/23										
Total Dissolved Solids	ND	10.0	mg/L							
<b>Reference (B231785-SRM1)</b> Prepared & Analyzed: 06/23/23										
Total Dissolved Solids	365	10.0	mg/L	400		91.3	85-115			
<b>Batch B231811 - General Prep - Wet Chem</b>										

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

www.GreenAnalytical.com

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
Project Name / Number: GCU #170  
Project Manager: Kyle Siesser

Reported:  
07/06/23 08:54

**General Chemistry - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B231811 - General Prep - Wet Chem (Continued)**

**Reference (B231811-SRM1)**

Prepared & Analyzed: 06/22/23

pH	7.06		pH Units	7.00		101	98.57-101.42			
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**Batch B231815 - General Prep - Wet Chem**

**Reference (B231815-SRM1)**

Prepared & Analyzed: 06/22/23

Conductivity	993	1.00	umho/cm@25C	1000		99.3	90-110			
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**Batch B231853 - IC- Ion Chromatograph**

**Blank (B231853-BLK1)**

Prepared & Analyzed: 06/29/23

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 (B231853-BS1)**

Prepared & Analyzed: 06/29/23

Bromide	2.35	0.100	mg/L	2.50		94.1	90-110			
Chloride	25.2	1.00	mg/L	25.0		101	90-110			
Fluoride	2.50	0.100	mg/L	2.50		100	90-110			
Sulfate	24.4	1.00	mg/L	25.0		97.6	90-110			

**LCS Dup (B231853-BSD1)**

Prepared & Analyzed: 06/29/23

Bromide	2.35	0.100	mg/L	2.50		93.9	90-110	0.255	20	
Chloride	25.1	1.00	mg/L	25.0		100	90-110	0.386	20	
Fluoride	2.51	0.100	mg/L	2.50		100	90-110	0.0399	20	
Sulfate	24.3	1.00	mg/L	25.0		97.2	90-110	0.440	20	

**Batch B231863 - IC- Ion Chromatograph**

**Blank (B231863-BLK1)**

Prepared: 06/30/23 Analyzed: 07/03/23

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 (B231863-BS1)**

Prepared: 06/30/23 Analyzed: 07/03/23

Bromide	2.35	0.100	mg/L	2.50		93.8	90-110			
Chloride	24.9	1.00	mg/L	25.0		99.6	90-110			
Fluoride	2.46	0.100	mg/L	2.50		98.4	90-110			
Sulfate	24.1	1.00	mg/L	25.0		96.2	90-110			

**LCS Dup (B231863-BSD1)**

Prepared: 06/30/23 Analyzed: 07/03/23

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

www.GreenAnalytical.com

Cottonwood Consulting  
PO Box 1653  
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Project: Anions, ICP Metals, Wet Chem  
Project Name / Number: GCU #170  
Project Manager: Kyle Siesser

Reported:  
07/06/23 08:54

**General Chemistry - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B231863 - IC- Ion Chromatograph (Continued)**

**LCS Dup (B231863-BSD1) (Continued)**

Prepared: 06/30/23 Analyzed: 07/03/23

Bromide	2.31	0.100	mg/L	2.50		92.2	90-110	1.72	20	
Chloride	24.4	1.00	mg/L	25.0		97.8	90-110	1.82	20	
Fluoride	2.42	0.100	mg/L	2.50		96.8	90-110	1.60	20	
Sulfate	23.6	1.00	mg/L	25.0		94.4	90-110	1.96	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B231792 - Total Recoverable by ICP**

**Blank (B231792-BLK1)**

Prepared: 06/26/23 Analyzed: 06/27/23

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 (B231792-BS1)**

Prepared: 06/26/23 Analyzed: 06/27/23

Calcium	1.96	0.200	mg/L	2.00		97.9	85-115			
Magnesium	10.1	0.100	mg/L	10.0		101	85-115			
Potassium	3.93	1.00	mg/L	4.00		98.3	85-115			
Sodium	1.62	1.00	mg/L	1.62		99.8	85-115			

**LCS Dup (B231792-BSD1)**

Prepared: 06/26/23 Analyzed: 06/27/23

Calcium	1.98	0.200	mg/L	2.00		99.1	85-115	1.24	20	
Magnesium	10.3	0.100	mg/L	10.0		103	85-115	1.95	20	
Potassium	4.03	1.00	mg/L	4.00		101	85-115	2.34	20	
Sodium	1.66	1.00	mg/L	1.62		102	85-115	2.48	20	

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Veronica Wells, Project Manager

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

www.GreenAnalytical.com

Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	07/06/23 08:54

Notes and Definitions

- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- H5 Sample was analyzed within 2-hours of its 24 or 48 hour hold-time limit.
- 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

*Veronica J wells*

Veronica Wells, Project Manager

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

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Cottonwood Consulting LLC		P.O. #:		Bill to (if different):		ANALYSIS REQUEST	
Project Manager: Kyle Siesser		Company:					
Address: PO Box 1653		Attn:					
City: Durango		Address:					
State: CO		City:					
Zip: 81302		State:					
Phone #: 970-764-7356		Zip:					
Email: kssiesser@cottonwoodconsulting.com		Phone #:					
Additional Report To:		Fax or Email:					
Project Name: GCU #170		Matrix (check one)					
Project Number:		No preservation (general)					
Sampler Name (Print): Joseph LaFortune		HNO <sub>3</sub>					
FOR LAB USE ONLY		HCl					
		H <sub>2</sub> SO <sub>4</sub>					
		Other:					
		Other:					
		# of containers					
Lab I.D.		Collected		See Attached List			
2306-229		Date					
C1		Time					
C2		6/20/23					
C3		1155					
C4		X					
C5		X					
C6		X					
C7		X					
C8		X					
C9		X					
C10		X					
C11		X					
C12		X					
C13		X					
C14		X					
C15		X					
C16		X					
C17		X					
C18		X					
C19		X					
C20		X					
C21		X					
C22		X					
C23		X					
C24		X					
C25		X					
C26		X					
C27		X					
C28		X					
C29		X					
C30		X					
C31		X					
C32		X					
C33		X					
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C36		X					
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C41		X					
C42		X					
C43		X					
C44		X					
C45		X					
C46		X					
C47		X					
C48		X					
C49		X					
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C51		X					
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C58		X					
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C60		X					
C61		X					
C62		X					
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C64		X					
C65		X					
C66		X					
C67		X					
C68		X					
C69		X					
C70		X					
C71		X					
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C79		X					
C80		X					
C81		X					
C82		X					
C83		X					
C84		X					
C85		X					
C86		X					
C87		X					
C88		X					
C89		X					
C90		X					
C91		X					
C92		X					
C93		X					
C94		X					
C95		X					
C96		X					
C97		X					
C98		X					
C99		X					
C100		X					

**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 CaCO<sub>3</sub>)
- Carbonate (As CaCO<sub>3</sub>)
- Total Alkalinity (as CaCO<sub>3</sub>)

**SM2540C MOD: TOTAL DISSOLVED SOLIDS**

- Total Dissolved Solids



### SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood Consulting

Work Order # 2306-229

Courier:  Fed Ex  UPS  USPS  Client  Kangaroo

Custody Seals on Box/Cooler Present:  Yes  No

Seals Intact:  Yes  No

Thermometer Used: #2 Samples on Ice, cooling process has begun:  Yes  No

Type of Ice:  Wet  Blue  None

Cooler Temp: Observed Temp: 2.7°C Correction Factor: 0°C Final Temp: 2.7°C  
\*Temp should be above freezing to 6°C

Date/Initials of person examining contents: 6/22/23  
Labeled by Initials: [Signature]  
(if different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. <u>PH/NOX/2021</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID Matrix:	<input type="checkbox"/> Yes <input type="checkbox"/> No <u>WT</u> <input type="checkbox"/> SL <input type="checkbox"/> OT	12.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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

27 December 2023

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 12/14/23 16:40. 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,

A handwritten signature in blue ink that reads "Veronica J. Wells". The signature is written in a cursive style and is enclosed in a light blue rectangular box.

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 <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: T104704514-23-18

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: T104704398-23-16

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Cottonwood Consulting	Project: Anions, ICP Metals, Wet Chem	
PO Box 1653	Project Name / Number: GCU #170	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	12/27/23 12:01

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2A	2312131-01	Water	12/14/23 12:00	12/14/23 16:40	
MW #3A	2312131-02	Water	12/14/23 11:30	12/14/23 16:40	
MW #4A	2312131-03	Water	12/14/23 11:50	12/14/23 16:40	
MW #5	2312131-04	Water	12/14/23 11:10	12/14/23 16:40	
MW #6	2312131-05	Water	12/14/23 11:40	12/14/23 16:40	
MW #7	2312131-06	Water	12/14/23 12:05	12/14/23 16:40	
MW #8	2312131-07	Water	12/14/23 10:50	12/14/23 16:40	
MW #9	2312131-08	Water	12/14/23 11:20	12/14/23 16:40	

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**MW #2A**

**2312131-01 (Ground Water)**

Sampled Date: 12/14/23 12:00

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	425	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO3*	425	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Bromide	1.12	0.500	0.137	mg/L	5	12/20/23 18:29	EPA300.0		AWG
Chloride*	73.6	5.00	0.278	mg/L	5	12/20/23 18:29	EPA300.0		AWG
Conductivity*	2210	1.00		umho/cm@25 C	1	12/15/23 16:48	2510 B		CAI
Fluoride*	0.655	0.500	0.0486	mg/L	5	12/20/23 18:29	EPA300.0		AWG
Nitrate as N*	2.00	0.040	0.015	mg/L	2	12/15/23 13:34	EPA300.0		AWG
Nitrate+Nitrite as N by IC	2.00	0.0800	0.0238	mg/L	2	12/15/23 13:34	EPA300.0		AWG
Nitrite as N*	<0.040	0.040	0.008	mg/L	2	12/15/23 13:34	EPA300.0		AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	12/15/23 13:34	EPA300.0		AWG
pH*	7.24			pH Units	1	12/15/23 16:49	EPA150.1		CAI
pH Temperature, degrees C	18.0			pH Units	1	12/15/23 16:49	EPA150.1		CAI
Sulfate*	804	5.00	0.620	mg/L	5	12/20/23 18:29	EPA300.0		AWG
Total Dissolved Solids*	1680	10.0		mg/L	1	12/19/23 10:25	EPA160.1		IDB

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	286	1.00	0.478	mg/L	5	12/26/23 18:05	EPA200.7		AES
Magnesium*	44.8	0.500	0.199	mg/L	5	12/26/23 18:05	EPA200.7		AES
Potassium*	<5.00	5.00	2.59	mg/L	5	12/26/23 18:05	EPA200.7		AES
Sodium*	208	5.00	2.70	mg/L	5	12/26/23 18:05	EPA200.7		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**MW #3A**

**2312131-02 (Ground Water)**

Sampled Date: 12/14/23 11:30

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	280	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO3*	280	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Bromide	0.830	0.200	0.0548	mg/L	2	12/20/23 19:09	EPA300.0		AWG
Chloride*	55.2	2.00	0.111	mg/L	2	12/20/23 19:09	EPA300.0		AWG
Conductivity*	2000	1.00		umho/cm@25 C	1	12/15/23 16:48	2510 B		CAI
Fluoride*	0.748	0.200	0.0194	mg/L	2	12/20/23 19:09	EPA300.0		AWG
Nitrate as N*	4.35	0.200	0.077	mg/L	10	12/18/23 10:39	EPA300.0	H3	AWG
Nitrate+Nitrite as N by IC	4.35	0.240	0.0854	mg/L	10	12/18/23 10:39	EPA300.0		AWG
Nitrite as N*	<0.040	0.040	0.008	mg/L	2	12/15/23 13:53	EPA300.0		AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	12/15/23 13:53	EPA300.0		AWG
pH*	7.27			pH Units	1	12/15/23 16:49	EPA150.1		CAI
pH Temperature, degrees C	18.0			pH Units	1	12/15/23 16:49	EPA150.1		CAI
Sulfate*	896	10.0	1.24	mg/L	10	12/20/23 19:29	EPA300.0		AWG
Total Dissolved Solids*	1550	10.0		mg/L	1	12/19/23 10:25	EPA160.1		IDB

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	276	1.00	0.478	mg/L	5	12/26/23 18:09	EPA200.7		AES
Magnesium*	35.8	0.500	0.199	mg/L	5	12/26/23 18:09	EPA200.7		AES
Potassium*	<5.00	5.00	2.59	mg/L	5	12/26/23 18:09	EPA200.7		AES
Sodium*	140	5.00	2.70	mg/L	5	12/26/23 18:09	EPA200.7		AES

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Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**MW #4A**

**2312131-03 (Ground Water)**

Sampled Date: 12/14/23 11:50

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	380	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO3*	380	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Bromide	0.342	0.200	0.0548	mg/L	2	12/20/23 19:49	EPA300.0		AWG
Chloride*	23.0	2.00	0.111	mg/L	2	12/20/23 19:49	EPA300.0		AWG
Conductivity*	1190	1.00		umho/cm@25 C	1	12/15/23 16:48	2510 B		CAI
Fluoride*	0.608	0.200	0.0194	mg/L	2	12/20/23 19:49	EPA300.0		AWG
Nitrate as N*	0.464	0.040	0.015	mg/L	2	12/15/23 14:12	EPA300.0		AWG
Nitrate+Nitrite as N by IC	0.464	0.0800	0.0238	mg/L	2	12/15/23 14:12	EPA300.0		AWG
Nitrite as N*	<0.040	0.040	0.008	mg/L	2	12/15/23 14:12	EPA300.0		AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	12/15/23 14:12	EPA300.0		AWG
pH*	7.27			pH Units	1	12/15/23 16:49	EPA150.1		CAI
pH Temperature, degrees C	19.2			pH Units	1	12/15/23 16:49	EPA150.1		CAI
Sulfate*	238	2.00	0.248	mg/L	2	12/20/23 19:49	EPA300.0		AWG
Total Dissolved Solids*	795	10.0		mg/L	1	12/19/23 10:25	EPA160.1		IDB

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	175	0.400	0.191	mg/L	2	12/26/23 18:16	EPA200.7		AES
Magnesium*	23.1	0.200	0.080	mg/L	2	12/26/23 18:16	EPA200.7		AES
Potassium*	5.04	2.00	1.03	mg/L	2	12/26/23 18:16	EPA200.7		AES
Sodium*	89.5	2.00	1.08	mg/L	2	12/26/23 18:16	EPA200.7		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**MW #5**

**2312131-04 (Ground Water)**

Sampled Date: 12/14/23 11:10

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	360	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO3*	360	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Bromide	<0.500	0.500	0.137	mg/L	5	12/20/23 20:09	EPA300.0		AWG
Chloride*	27.0	5.00	0.278	mg/L	5	12/20/23 20:09	EPA300.0		AWG
Conductivity*	2100	1.00		umho/cm@25 C	1	12/15/23 16:48	2510 B		CAI
Fluoride*	<0.500	0.500	0.0486	mg/L	5	12/20/23 20:09	EPA300.0		AWG
Nitrate as N*	2.33	0.040	0.015	mg/L	2	12/15/23 15:09	EPA300.0		AWG
Nitrate+Nitrite as N by IC	2.33	0.0800	0.0238	mg/L	2	12/15/23 15:09	EPA300.0		AWG
Nitrite as N*	<0.040	0.040	0.008	mg/L	2	12/15/23 15:09	EPA300.0		AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	12/15/23 15:09	EPA300.0		AWG
pH*	7.16			pH Units	1	12/15/23 16:49	EPA150.1		CAI
pH Temperature, degrees C	17.0			pH Units	1	12/15/23 16:49	EPA150.1		CAI
Sulfate*	967	5.00	0.620	mg/L	5	12/20/23 20:09	EPA300.0		AWG
Total Dissolved Solids*	1870	10.0		mg/L	1	12/19/23 10:25	EPA160.1		IDB

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	370	1.00	0.478	mg/L	5	12/26/23 18:18	EPA200.7		AES
Magnesium*	43.9	0.500	0.199	mg/L	5	12/26/23 18:18	EPA200.7		AES
Potassium*	15.2	5.00	2.59	mg/L	5	12/26/23 18:18	EPA200.7		AES
Sodium*	92.2	5.00	2.70	mg/L	5	12/26/23 18:18	EPA200.7		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**MW #6**

**2312131-05 (Ground Water)**

**Sampled Date: 12/14/23 11:40**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	400	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO3*	400	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Bromide	<0.100	0.100	0.0274	mg/L	1	12/20/23 20:49	EPA300.0		AWG
Chloride*	6.02	1.00	0.0555	mg/L	1	12/20/23 20:49	EPA300.0		AWG
Conductivity*	868	1.00		umho/cm@25 C	1	12/15/23 16:48	2510 B		CAI
Fluoride*	0.531	0.100	0.00971	mg/L	1	12/20/23 20:49	EPA300.0		AWG
Nitrate as N*	0.262	0.020	0.008	mg/L	1	12/15/23 15:28	EPA300.0		AWG
Nitrate+Nitrite as N by IC	0.262	0.0400	0.0119	mg/L	1	12/15/23 15:28	EPA300.0		AWG
Nitrite as N*	<0.020	0.020	0.004	mg/L	1	12/15/23 15:28	EPA300.0		AWG
Ortho-Phosphate as P*	<0.0500	0.0500	0.0291	mg/L	1	12/15/23 15:28	EPA300.0		AWG
pH*	7.19			pH Units	1	12/15/23 16:49	EPA150.1		CAI
pH Temperature, degrees C	18.6			pH Units	1	12/15/23 16:49	EPA150.1		CAI
Sulfate*	87.3	1.00	0.124	mg/L	1	12/20/23 20:49	EPA300.0		AWG
Total Dissolved Solids*	560	10.0		mg/L	1	12/19/23 10:25	EPA160.1		IDB

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	142	0.200	0.096	mg/L	1	12/26/23 18:22	EPA200.7		AES
Magnesium*	15.7	0.100	0.040	mg/L	1	12/26/23 18:22	EPA200.7		AES
Potassium*	2.12	1.00	0.517	mg/L	1	12/26/23 18:22	EPA200.7		AES
Sodium*	31.9	1.00	0.540	mg/L	1	12/26/23 18:22	EPA200.7		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**MW #7**

**2312131-06 (Ground Water)**  
**Sampled Date: 12/14/23 12:05**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	192	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO3*	192	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Bromide	<0.200	0.200	0.0548	mg/L	2	12/20/23 21:09	EPA300.0		AWG
Chloride*	8.53	2.00	0.111	mg/L	2	12/20/23 21:09	EPA300.0		AWG
Conductivity*	1750	1.00		umho/cm@25 C	1	12/15/23 16:48	2510 B		CAI
Fluoride*	0.612	0.200	0.0194	mg/L	2	12/20/23 21:09	EPA300.0		AWG
Nitrate as N*	0.850	0.040	0.015	mg/L	2	12/15/23 15:47	EPA300.0		AWG
Nitrate+Nitrite as N by IC	0.850	0.0800	0.0238	mg/L	2	12/15/23 15:47	EPA300.0		AWG
Nitrite as N*	<0.040	0.040	0.008	mg/L	2	12/15/23 15:47	EPA300.0		AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	12/15/23 15:47	EPA300.0		AWG
pH*	7.31			pH Units	1	12/15/23 16:49	EPA150.1		CAI
pH Temperature, degrees C	18.6			pH Units	1	12/15/23 16:49	EPA150.1		CAI
Sulfate*	882	5.00	0.620	mg/L	5	12/20/23 21:29	EPA300.0		AWG
Total Dissolved Solids*	1500	10.0		mg/L	1	12/19/23 10:25	EPA160.1		IDB

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	334	0.400	0.191	mg/L	2	12/26/23 18:24	EPA200.7		AES
Magnesium*	30.5	0.200	0.080	mg/L	2	12/26/23 18:24	EPA200.7		AES
Potassium*	5.35	2.00	1.03	mg/L	2	12/26/23 18:24	EPA200.7		AES
Sodium*	70.4	2.00	1.08	mg/L	2	12/26/23 18:24	EPA200.7		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**MW #8**

**2312131-07 (Ground Water)**  
**Sampled Date: 12/14/23 10:50**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	202	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO3*	202	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Bromide	<0.500	0.500	0.137	mg/L	5	12/20/23 22:29	EPA300.0		AWG
Chloride*	10.3	5.00	0.278	mg/L	5	12/20/23 22:29	EPA300.0		AWG
Conductivity*	2060	1.00		umho/cm@25 C	1	12/15/23 16:48	2510 B		CAI
Fluoride*	0.575	0.500	0.0486	mg/L	5	12/20/23 22:29	EPA300.0		AWG
Nitrate as N*	1.57	0.040	0.015	mg/L	2	12/15/23 16:06	EPA300.0		AWG
Nitrate+Nitrite as N by IC	1.57	0.0800	0.0238	mg/L	2	12/15/23 16:06	EPA300.0		AWG
Nitrite as N*	<0.040	0.040	0.008	mg/L	2	12/15/23 16:06	EPA300.0		AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	12/15/23 16:06	EPA300.0		AWG
pH*	7.36			pH Units	1	12/15/23 16:49	EPA150.1		CAI
pH Temperature, degrees C	17.7			pH Units	1	12/15/23 16:49	EPA150.1		CAI
Sulfate*	1060	10.0	1.24	mg/L	10	12/21/23 09:33	EPA300.0		AWG
Total Dissolved Solids*	1830	10.0		mg/L	1	12/19/23 10:25	EPA160.1		IDB

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	369	1.00	0.478	mg/L	5	12/26/23 18:28	EPA200.7		AES
Magnesium*	34.8	0.500	0.199	mg/L	5	12/26/23 18:28	EPA200.7		AES
Potassium*	<5.00	5.00	2.59	mg/L	5	12/26/23 18:28	EPA200.7		AES
Sodium*	98.0	5.00	2.70	mg/L	5	12/26/23 18:28	EPA200.7		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**MW #9**

**2312131-08 (Ground Water)**

Sampled Date: 12/14/23 11:20

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Total as CaCO3*	330	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO3*	330	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Bromide	<0.200	0.200	0.0548	mg/L	2	12/20/23 22:49	EPA300.0		AWG
Chloride*	13.0	2.00	0.111	mg/L	2	12/20/23 22:49	EPA300.0		AWG
Conductivity*	1370	1.00		umho/cm@25 C	1	12/15/23 16:48	2510 B		CAI
Fluoride*	0.436	0.200	0.0194	mg/L	2	12/20/23 22:49	EPA300.0		AWG
Nitrate as N*	0.899	0.040	0.015	mg/L	2	12/15/23 16:25	EPA300.0		AWG
Nitrate+Nitrite as N by IC	0.899	0.0800	0.0238	mg/L	2	12/15/23 16:25	EPA300.0		AWG
Nitrite as N*	<0.040	0.040	0.008	mg/L	2	12/15/23 16:25	EPA300.0		AWG
Ortho-Phosphate as P*	<0.100	0.100	0.0582	mg/L	2	12/15/23 16:25	EPA300.0		AWG
pH*	7.28			pH Units	1	12/15/23 16:49	EPA150.1		CAI
pH Temperature, degrees C	18.0			pH Units	1	12/15/23 16:49	EPA150.1		CAI
Sulfate*	468	5.00	0.620	mg/L	5	12/20/23 23:09	EPA300.0		AWG
Total Dissolved Solids*	1020	10.0		mg/L	1	12/19/23 10:25	EPA160.1		IDB

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	216	0.400	0.191	mg/L	2	12/26/23 18:31	EPA200.7		AES
Magnesium*	25.7	0.200	0.080	mg/L	2	12/26/23 18:31	EPA200.7		AES
Potassium*	5.27	2.00	1.03	mg/L	2	12/26/23 18:31	EPA200.7		AES
Sodium*	74.6	2.00	1.08	mg/L	2	12/26/23 18:31	EPA200.7		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B233739 - IC- Ion Chromatograph**

**Blank (B233739-BLK1)**

Prepared & Analyzed: 12/15/23

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 (B233739-BS1)**

Prepared & Analyzed: 12/15/23

Nitrate as N	0.943	0.020	mg/L	1.00		94.3	90-110			
Nitrite as N	1.01	0.020	mg/L	1.00		101	90-110			
Ortho-Phosphate as P	0.925	0.0500	mg/L	1.00		92.5	90-110			

**LCS Dup (B233739-BSD1)**

Prepared & Analyzed: 12/15/23

Nitrate as N	0.976	0.020	mg/L	1.00		97.6	90-110	3.41	20	
Nitrite as N	1.04	0.020	mg/L	1.00		104	90-110	3.21	20	
Ortho-Phosphate as P	0.968	0.0500	mg/L	1.00		96.8	90-110	4.60	20	

**Batch B233742 - General Prep - Wet Chem**

**Reference (B233742-SRM1)**

Prepared & Analyzed: 12/15/23

Conductivity	1000	1.00	umho/cm@25C	1000		100	90-110			
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**Batch B233743 - General Prep - Wet Chem**

**Reference (B233743-SRM1)**

Prepared & Analyzed: 12/15/23

pH	7.05		pH Units	7.00		101	98.57-101.42			
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**Batch B233755 - IC- Ion Chromatograph**

**Blank (B233755-BLK1)**

Prepared: 12/19/23 Analyzed: 12/20/23

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 (B233755-BS1)**

Prepared: 12/19/23 Analyzed: 12/20/23

Bromide	2.61	0.100	mg/L	2.50		104	90-110			
Chloride	24.8	1.00	mg/L	25.0		99.2	90-110			
Fluoride	2.49	0.100	mg/L	2.50		99.6	90-110			
Sulfate	24.2	1.00	mg/L	25.0		97.0	90-110			

**LCS Dup (B233755-BSD1)**

Prepared: 12/19/23 Analyzed: 12/20/23

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

**General Chemistry - Quality Control  
 (Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B233755 - IC- Ion Chromatograph (Continued)**

**LCS Dup (B233755-BSD1) (Continued)**

Prepared: 12/19/23 Analyzed: 12/20/23

Bromide	2.61	0.100	mg/L	2.50		104	90-110	0.0767	20	
Chloride	24.8	1.00	mg/L	25.0		99.2	90-110	0.0645	20	
Fluoride	2.51	0.100	mg/L	2.50		100	90-110	0.760	20	
Sulfate	24.3	1.00	mg/L	25.0		97.1	90-110	0.190	20	

**Batch B233758 - General Prep - Wet Chem**

**Blank (B233758-BLK1)**

Prepared & Analyzed: 12/19/23

Total Dissolved Solids	ND	10.0	mg/L							
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**Reference (B233758-SRM1)**

Prepared & Analyzed: 12/19/23

Total Dissolved Solids	395	10.0	mg/L	400		98.8	85-115			
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**Batch B233770 - General Prep - Wet Chem**

**Blank (B233770-BLK1)**

Prepared & Analyzed: 12/20/23

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 (B233770-BS1)**

Prepared & Analyzed: 12/20/23

Alkalinity, Total as CaCO3	99.0	10.0	mg/L	100		99.0	85-115			
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**LCS Dup (B233770-BSD1)**

Prepared & Analyzed: 12/20/23

Alkalinity, Total as CaCO3	100	10.0	mg/L	100		100	85-115	1.01	20	
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**Reference (B233770-SRM1)**

Prepared & Analyzed: 12/20/23

Alkalinity, Total as CaCO3	75.0	10.0	mg/L	72.7		103	85-115			
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Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
 Project Name / Number: GCU #170  
 Project Manager: Kyle Siesser

Reported:  
 12/27/23 12:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B233799 - Total Recoverable by ICP**

**Blank (B233799-BLK1)**

Prepared & Analyzed: 12/26/23

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 (B233799-BS1)**

Prepared & Analyzed: 12/26/23

Calcium	2.08	0.200	mg/L	2.00		104	85-115			
Magnesium	10.3	0.100	mg/L	10.0		103	85-115			
Potassium	4.06	1.00	mg/L	4.00		101	85-115			
Sodium	1.61	1.00	mg/L	1.62		99.5	85-115			

**LCS Dup (B233799-BSD1)**

Prepared & Analyzed: 12/26/23

Calcium	2.17	0.200	mg/L	2.00		108	85-115	4.31	20	
Magnesium	11.0	0.100	mg/L	10.0		110	85-115	6.57	20	
Potassium	4.34	1.00	mg/L	4.00		108	85-115	6.58	20	
Sodium	1.73	1.00	mg/L	1.62		107	85-115	6.98	20	

**Notes and Definitions**

- H3 Initial analysis performed within hold-time but not reportable due to QC failure or other issue. Sample was subsequently re-analyzed past hold time specified by method.
- 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

Veronica Wells, Project Manager

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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Anions, ICP Metals, Wet Chem  
Project Name / Number: GCU #170  
Project Manager: Kyle Siesser

**Reported:**  
12/27/23 12:01

### Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2312131-02	Nitrate [IC]	Nitrate as N	H3	Initial analysis performed within hold-time but not reportable due to QC failure or other issue. Sample was subsequently re-analyzed past hold time specified by method.

Green Analytical Laboratories

Veronica Wells, Project Manager

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Table of Contents

**GCU #170 x9 bottle sets**

**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 CaCO<sub>3</sub>)
- Carbonate (As CaCO<sub>3</sub>)
- Total Alkalinity (as CaCO<sub>3</sub>)

**SM2540C MOD: TOTAL DISSOLVED SOLIDS**

- Total Dissolved Solids

# Project Information

## Cottonwood Consulting

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

## od Consulting

Phone: (970) 946-3761  
Fax: -

**Project Name:** Anions, ICP Metals, Wet Chem

**Project Number:**

**Client PM:** Kyle Siesser

**Comments:**

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]	
<b>Nitrate/Nitrite by IC Package subanalyses:</b>	
Nitrate [IC]	
Nitrite [IC]	



### SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood Consulting

Work Order # 2312 131

Courier:  Fed Ex  UPS  USPS  Client  Kangaroo

Custody Seals on Box/Cooler Present:  Yes  No      Seals Intact:  Yes  No

Thermometer Used: 2      Samples on ice, cooling process has begun:  Yes  No

Type of Ice:  Wet  Blue  None

Cooler Temp: Observed Temp: 10.4 °C      Correction Factor: 0 °C      Final Temp: 10.4 °C

\*Temp should be above freezing to 6°C

Date/Initials of person examining contents: 12.15.23  
DAD  
Labeled by Initials: \_\_\_\_\_  
(If different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. <u>NOX / 0804 / PH</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix:	<input checked="" type="checkbox"/> WT <input type="checkbox"/> SL <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

## Cottonwood Consulting, LLC

### MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

GCU # 170  
UNIT K, SEC. 35, T29N, R12W

LABORATORY (S) USED :

GAL

Date :

6/20/23

DEVELOPER / SAMPLER :

DS/JL

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos) (mshos)	TEMP. (celcius)	VOLUME PURGED (gal.)
2A	99.57	6.29	8.51	14.80	1155	6.91	1796	20.3	9.24
3A	97.46	8.18	7.70	15.88	1205	7.06	2.16	17.9	12.02
4A	99.08	7.39	8.59	15.98	1215	7.11	1745	20.7	10.80
5	96.05	12.00	7.30	19.30	1225	7.48	2.35	18.0	15
6	101.53	6.29	9.69	15.98	1240	7.31	0.896	17.5	9.24
7	99.97	9.69	9.09	18.78	1250	7.52	1940	20.6	14.24
8	97.69	9.52	8.56	18.08	1255	7.64	2.2	19.6	10
9	100.28	7.33	11.10	18.43	1300	7.54	1296	18.2	10

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

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".

Water sampled from brown tint - grey tint during purging process. Black sediment observed, no odor, no bubbles

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.



**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 301595

**CONDITIONS**

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 301595
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	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	3/27/2024