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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'.

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



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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

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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A handwritten signature in blue ink that reads 'Veronica J. Wells'.

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 #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 CaCO ₃ *	660	10.0	6.06	mg/L	10	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	10	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	10	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO ₃ *	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 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 CaCO ₃ *	246	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO ₃ *	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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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 CaCO ₃ *	468	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO ₃ *	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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Project: Anions, ICP Metals, Wet Chem
Project Name / Number: GCU #170
Project Manager: Kyle Siesser

Reported:
07/06/23 08:54

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 CaCO ₃ *	250	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO ₃ *	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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Project: Anions, ICP Metals, Wet Chem
Project Name / Number: GCU #170
Project Manager: Kyle Siesser

Reported:
07/06/23 08:54

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 CaCO ₃ *	400	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO ₃ *	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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Project Name / Number: GCU #170
Project Manager: Kyle Siesser

Reported:
07/06/23 08:54

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

Green Analytical Laboratories

Veronica Wells, Project Manager

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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 CaCO ₃ *	188	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO ₃ *	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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Project: Anions, ICP Metals, Wet Chem
Project Name / Number: GCU #170
Project Manager: Kyle Siesser

Reported:
07/06/23 08:54

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 CaCO ₃ *	338	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	06/23/23 08:42	2320 B		KRW
Alkalinity, Bicarbonate as CaCO ₃ *	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

Green Analytical Laboratories

Veronica Wells, Project Manager

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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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B231767 - General Prep - Wet Chem

Blank (B231767-BLK1)

Prepared & Analyzed: 06/23/23

Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							

LCS (B231767-BS1)

Prepared & Analyzed: 06/23/23

Alkalinity, Total as CaCO ₃	105	10.0	mg/L	100		105	85-115			
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LCS Dup (B231767-BSD1)

Prepared & Analyzed: 06/23/23

Alkalinity, Total as CaCO ₃	102	10.0	mg/L	100		102	85-115	2.90	20	
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Reference (B231767-SRM1)

Prepared & Analyzed: 06/23/23

Alkalinity, Total as CaCO ₃	55.0	10.0	mg/L	61.8		89.0	85-115			
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Batch B231776 - IC- Ion Chromatograph

Blank (B231776-BLK1)

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							

LCS (B231776-BS1)

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			

LCS Dup (B231776-BSD1)

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	

Batch B231785 - General Prep - Wet Chem

Blank (B231785-BLK1)

Prepared & Analyzed: 06/23/23

Total Dissolved Solids	ND	10.0	mg/L							
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Reference (B231785-SRM1)

Prepared & Analyzed: 06/23/23

Total Dissolved Solids	365	10.0	mg/L	400		91.3	85-115			
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Batch B231811 - General Prep - Wet Chem

Green Analytical Laboratories

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

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

Green Analytical Laboratories

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

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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	

Green Analytical Laboratories

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

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

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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_3)
- Carbonate (As CaCO_3)
- Total Alkalinity (as CaCO_3)

SM2540C MOD: TOTAL DISSOLVED SOLIDS

- Total Dissolved Solids

Analytical
Laboratories

SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood ConsultingWork Order # 2306-229Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ KangarooCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: #2 Samples on Ice, cooling process has begun: ☐ Yes ☐ NoType of Ice: ☐ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 2.7°C Correction Factor: 0°C Final Temp: 2.7°C
*Temp should be above freezing to 6°CDate/Initials of person
examining contents: 6/22/23
ELLabeled 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>PH/NOX/2024</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	<input 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: _____

FORM-039, Rev 1

Page 1 of 1



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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, flowing style.

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
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

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	

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A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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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 CaCO ₃ *	425	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	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

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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 CaCO ₃ *	280	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	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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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 CaCO ₃ *	380	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	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

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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 CaCO ₃ *	360	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	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

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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
General Chemistry									
Alkalinity, Total as CaCO ₃ *	400	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	5	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	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

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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:
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 CaCO ₃ *	192	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	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

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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 CaCO ₃ *	202	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	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 CaCO ₃ *	330	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	6.06	mg/L	2	12/20/23 09:10	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	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 J Wells

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 CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							

LCS (B233770-BS1)

Prepared & Analyzed: 12/20/23

Alkalinity, Total as CaCO ₃	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 CaCO ₃	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 CaCO ₃	75.0	10.0	mg/L	72.7		103	85-115			
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Green Analytical Laboratories

Veronica J Wells

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 J. Wells

Veronica Wells, Project Manager

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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	12/27/23 12:01

Qualifier Summary

LabNumber	Analysis	Analyte	Qualifier	TextBody
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 J. Wells

Veronica Wells, Project Manager

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(970) 247-4220
Fax: (970) 247-4227
service@greenanalytical.com or dzufell@greenanalytical.com
75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cottonwood Consulting LLC

Project Manager: Kyle Siesser

Address: PO Box 1653

City: Durango

Phone #: 970-764-7356

Project Name: GCU #170

Project Name: GCU #170

Project Number:

Sample Name (Print): Kelsey O'Brien

FOR LAB USE ONLY

Sample Name or Location

Lab I.D.

2312131

	Sample Name or Location	Date	Time	Collected					Matrix (check one)					# of containers					See Attached List
				GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other: HNO ₃	Other:				
01	MW #2A	12/14/23	1200	X															X
02	MW #3A		1130	X															X
03	MW #4A		1150	X															X
04	MW #5		1110	X															X
05	MW #6		1140	X															X
06	MW #7		1205	X															X
07	MW #8		1050	X															X
08	MW #9		1120	X															X

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 12/14/23

Received By:

ADDITIONAL REMARKS:

Report to State? (Circle)

Yes

No

Relinquished By:

Date: 1040

Received By:

ADDITIONAL REMARKS:

Relinquished By:

Date:

Received By:

ADDITIONAL REMARKS:

Relinquished By:

Date:

Received By:

ADDITIONAL REMARKS:

Delivered By: (Circle One)

user #2

Temperature at receipt:

CHECKED BY:

Sampler) UPS - FedEx - Kangaroo - Other:

on ice

10.4°C

WPA

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

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_3)
- Carbonate (As CaCO_3)
- Total Alkalinity (as CaCO_3)

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]	
Nitrate/Nitrite by IC Package subanalyses:	
Nitrate [IC]	
Nitrite [IC]	



SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood ConsultingWork Order # 2312 131Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ KangarooCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☒ NoThermometer Used: 2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler 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
DADLabeled by Initials: _____
(if different than above)

Chain of Custody Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4.
Samples arrived within hold time:	<input type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9.
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input checked="" 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) (mmhos)	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: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
 (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.

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 : 12/14/23

DEVELOPER / SAMPLER : DS/KO

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
2A	99.57	6.67	8.13	14.80	1200	7.03	2140	11.3	3.25
3A	97.46	8.49	7.39	15.88	1130	7.25	2170	11.4	4.16
4A	99.08	7.70	8.28	15.98	1150	7.08	1321	11.8	3.77
5	96.05	12.27	7.03	19.30	1110	7.38	2530	9.2	3.50
6	101.53	6.73	9.25	15.98	1140	7.18	1002	11.6	3.29
7	99.97	10.00	8.78	18.78	1205	7.24	1934	11.6	4.4
8	97.69	9.73	8.35	18.08	1050	7.51	2320	10.0	4.75
9	100.28	10.53	7.90	18.43	1120	7.43	1507	11.6	5.00

6.01

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

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
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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